FILE NOTATIONS

Entered in [illegible] File ...✓.....
Location [illegible] ...✓.....
Card [illegible] ...✓.....

Checked by Chief [illegible]
[illegible] ...✓.....
Dis[illegible] Letter .....

COMPLETION DATA:

Date Well Completed 3/1/75

Location Inspected .....

OW..... WW..... TA.....
GW..... OS..... PA.....

Bond released
State or Fee Land .....

LOGS FILED

Driller's Log...✓.....
Elec[illegible] (T[illegible]) ...✓.....
E.. ..... [illegible] ... [illegible] Lat..... GR-N..... Micro.....
BHC S[illegible] ... [illegible] .....
CBLog..... CCLog..... Others.....✓.....

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

CONFIDENTIAL

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

July 1, 1974

Re: Exxon #1 Wilkin Ridge Unit
Duchesne County, Utah
Wildcat

U. S. Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached for your approval, along with required supporting documents, is Application for Permit to Drill the subject location, a Duchesne County, Utah, wildcat. Supporting documents include plat prepared by surveyor, 12-point development plan for surface use, road route to the proposed location, and segment of U.S.G.S. topographic map showing existing road in the area of the surveyed location.

Exxon proposes to drill at a location 1980' FNL and 2055' FWL of Section 29, T10S, R17E. This is a "regular" location.

Should you or the Bureau of Land Management desire an on-site inspection of the premises prior to approval of our plan, please contact Exxon's E. G. Hays at P. O. Box 120, Denver, CO 80201, or by calling (303) 761-6470, Ext. 353. If Mr. Hays is unavailable, arrangements for inspection may be made with Exxon's Mr. Gene D. Thompson.

Very truly yours,

Gene D. Thompson

EGH:agl

Attachments

cc: State of Utah, Division of Oil and Gas Conservation (2)

CONFIDENTIAL

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
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Very truly yours,

Gene D. Thompson

EGH:agl

Attachments

cc: State of Utah, Division of Oil and Gas Conservation (2)

CONFIDENTIAL

CONFI

Form 9-331C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

8. FARM OR LEASE NAME: --

9. WELL NO.: Exxon #1 Wilkin Ridge Unit

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29, T10S, R17E

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER Wildcat SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FNL, 2055' FWL, Sec. 29, T10S, R17E, Duchesne County, Utah
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 20 miles South of Myton, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1980 Ft.

16. NO. OF ACRES IN LEASE: 640 Acres

17. NO. OF ACRES ASSIGNED TO THIS WELL:

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: Not Applicable

19. PROPOSED DEPTH: 12,000'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6172' (Ungraded Ground)

22. APPROX. DATE WORK WILL START*: July 10, 1974

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Min. of 17½"	13-3/8"	48#	75' GL	Fill Annulus to Surface
11"	8-5/8"	32 & 24#	2000	Circulate to Surface
7-7/8"	5½"	17#	Approx. 11,500	Sufficient to Cover all pays.

Mud Program
Surface hole: Water-base mud 8.6-9.0 lb./gal.
Production hole: Water-base mud 8.6-12.0 lb./gal.
Mud Weight to be adjusted for conditions and to maintain safe drilling operations

Evaluation Program: Mud-Log 4500 feet to total depth.
Wireline Logs at total depth.

Blowout Preventer Program; 3000-psi working pressure BOPs and choke manifold.
On 8-5/8" Surface Casing: Two ram-type BOPs, one bag-type BOP, and choke manifold.

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED [signature] TITLE Drlg Opr Mgr DATE 7-2-74

(This space for Federal or State office use)

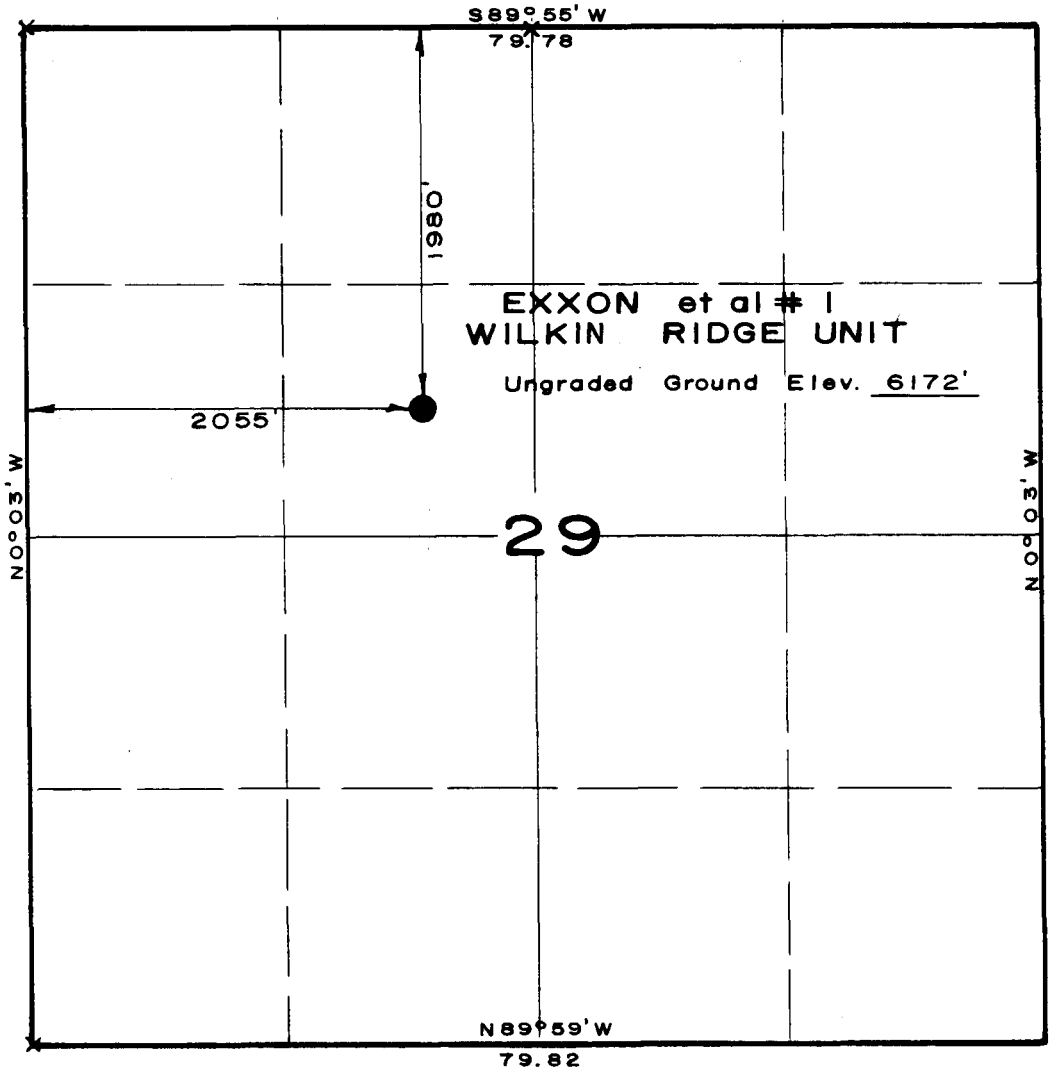
PERMIT NO. 43-013-30327 APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

T10S, R17E, S. L. M.



X = Corners Found and Used (Brass Cap).

CONFIDENTIAL

PROJECT

EXXON

Well location, *EXXON et al # 1 WILKIN RIDGE UNIT*, located as shown in the SE 1/4 NW 1/4 Section 29, T10S, R17E, S.L.M., Duchesne County, Utah

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Laurence C. Kay

REGISTERED LAND SURVEYOR
REGISTRATION Nº 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q – 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 29 June 1974
PARTY L. Kay & J. Lietke	REFERENCES GLO Plat
WEATHER Hot	FILE Exxon

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Unit Wilkin Ridge Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 19 74, Exxon #1 Wilkin Ridge Unit (Wildcat)

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* [signature]

Phone (303) 761-6470 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so State)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1							Wilkin Ridge Unit

12/1/74-12/3/74
Ran DIL and Sonic-GR logs from 12,402'-11,300' with Sonic caliper to 10,000'. Ran Density-CNL logs from 12,402'-11,300' with caliper to 10,000' and from 4,600' to 3,015'.

12/3/74-12/5/74
Fishing for stuck sidewall core gun. Recovered fish. Shot 9 bullets, recovered 1 core - coal.

12/5/74-12/10/74
Conditioned hole and ran 5-1/2" casing to 12,390' with 1140 sacks Class "G" cement with 4% gel. Good returns throughout job.

12/10/74-12/19/74
WOC. Installed casing head. Ran Gamma Ray Collar and Cement Bond logs. Picked up and ran tubing.

12/19/74-12/24/74
Perforated 10,241', 10,248', 10,252', 10,255'. Injected KCl water. Tracer showed flow uphole behind casing. Squeezed perfs with 100, 200 and 200 sacks cement.

12/25/74
Shut down.

12/26/74-12/31/74
Drilled out cement from 10,125' to 10,255'. Perforated 47 holes 10535' to 12130'. Broke down perforations with KCl water and balled out at 6900 psi. Injected 446 bbls. water. Opened well to tanks and flowed back 360 bbls. water in 2 days.

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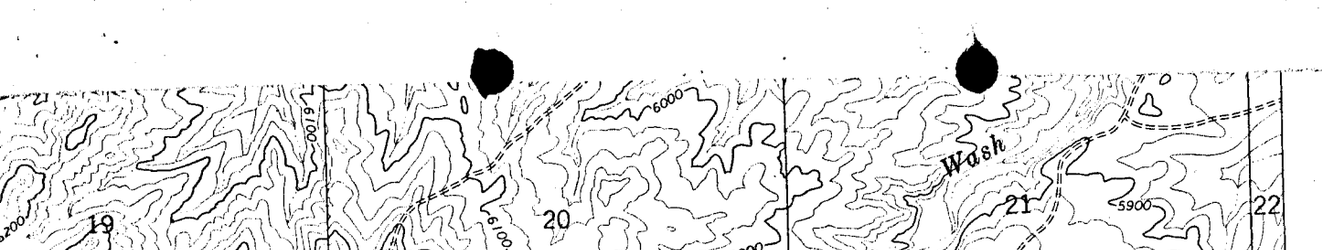
NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1967

1 MILE

6000 7000 FEET

1 KILOMETER

ROAD CLASSIFICATION

Unimproved dirt

4063 IV
(NUTTERS HOLLOW)
1:62 500

CONFIDENTIAL

UTAH

QUADRANGLE LOCATION

NDARDS
OR WASHINGTON, D. C. 20242
LABLE ON REQUEST

WILKIN RIDGE, UTAH

N3952.5—W11000/7.5

1965

AMS 3963 I NE—SERIES V897

DEVELOPMENT PLAN FOR SURFACE USE - EXXON ET AL #1 WILKIN RIDGE UNIT
DUCHESNE COUNTY, UTAH

Attachments show the following required information relative to the drilling of the proposed Wildcat well:

1. Road route to the proposed location, including point of exit from main highway.

2. Segment of a U.S.G.S. topographic map further defining the planned access roads to proposed location in SE/4, NW/4, Section 29, T10S, R17E, such access coinciding with existing dirt road within 0.5 mile of location.

3. No existing wells in the immediate vicinity.

4. Existing dirt roads in the general area.

Other required information is as follows:

5. There are no existing tank batteries nor flow lines involved. Temporary testing facilities are indicated on Attachment 1. Should production be established, tank battery and flow line are to be covered by future filing in advance of construction.

6. Proposed water supply is a haul from an as-yet undetermined source.

7. Waste disposal is to be in accord with OSHA requirements. Sump or reserve pit will be backfilled after use.

8. No camps are involved.

9. No airstrips are planned.

10. Location layout is shown in inset sketch on Attachment 1.

11. After use, location is to be restored (leveled, reseeded, etc.) to the acceptance of the B.L.M.

12. Proposed drillsite is in an open area at an elevation of 6172 feet. Vegetation is sparse, consisting of some grass and little sagebrush.

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EGH:agl
7-1-74

ATTACHMENT 1

ROAD MAP

LOCATION IN SEC. 29 T6S R17E
DUCHESNE CO., UTAH

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

DRAWN WSW-EGH	ENGR. SECTION	REVISED	SCALE NONE	JOB NO.	FILE NO.
CHECKED	APPROVED		DATE 6-28-74		

Casing and Blowout Preventer Programs

Exxon #1 Wilkin Ridge Unit - Duchesne County, Utah

1. Surface Casing: 8-5/8" OD, 24 & 32#/ft., K-55, new pipe; set at least 2000 feet.

2. Casingheads: 8-5/8" x 10", 5000# WP with 5000# valve; New condition.

3. Intermediate Casing: None planned. (Should the need for a protective string of casing arise, Exxon would consider setting either 7" integral joint or 5½" and then slim-holing to total depth).

4. Blowout Preventers: See attached drawing and equipment list for description of 3000 psi working pressure BOPs on surface casing, and the choke manifold. A minimum of two ram-type BOPs (one "blind", others "pipe") and a bag-type BOP are to be used. Fill, kill, and choke lines are shown. Upon installation, Exxon proposes to test surface casing to at least 1500 psi and BOP equipment to 300 psi and 3000 psi. Ram-type BOPs are to be checked for physical operation each trip. The entire BOP stack is to be pressure tested at least once per month to a pressure at least 50% of rated working pressure.

5. Auxiliary Equipment: Upper and lower Kelly cocks; pit level indicator; flow sensor with alarm; full-opening safety valve (with sub if needed) to fit each type connection in the drill pipe/drill collar string (on floor in open position ready for use); drill string back-pressure valve on rig floor. If a float is used at the bit during shallow drilling, to minimize bit-plugging, it should be removed from use before reaching 3000 feet.

6. Anticipated Maximum Bottomhole Pressure: Approximately 7000 psi.

7. Drilling Fluid: Water-base mud with adequate properties for drilling, evaluation, and well control. Anticipated mud weights are within the following ranges:

   Surface hole - 8.6-9.0 lb./gal.
   Production hole - 8.6-12.0 lb./gal.

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EGH:agl
7-1-74

BLOWOUT PREVENTER SPECIFICATION
TYPE II - D

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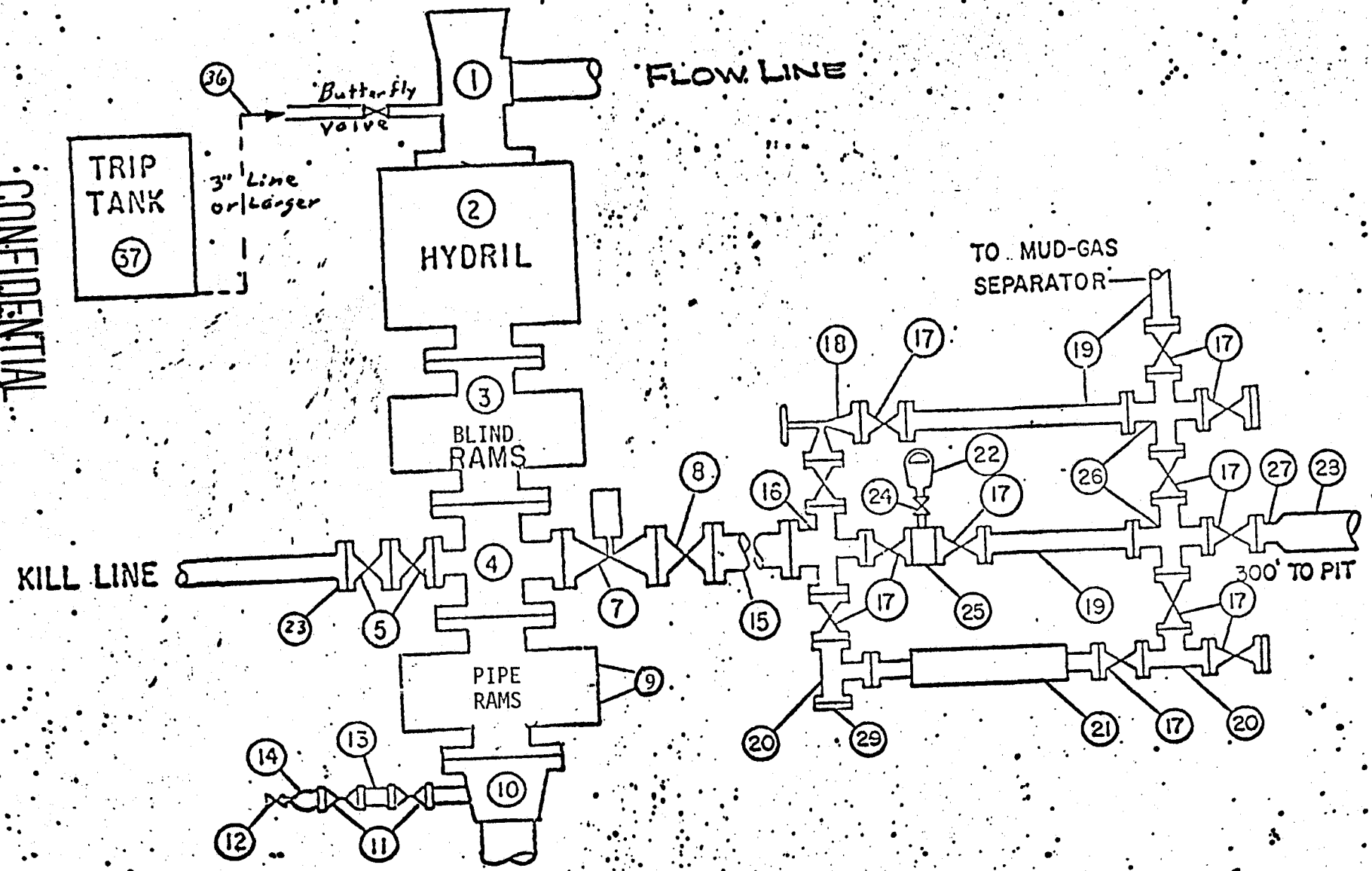

BLOWOUT PREVENTER SPECIFICATI
EQUIPMENT DESCRIPTION

TYPE II-D

All equipment should be at least 3000 psi WP or higher unless otherwise specifie

1. Bell nipple.
2. Hydril or equivalent bag type preventer.
3. Ram type pressure operated blowout preventer with pipe rams.
4. Flanged spool with one 4-inch and one 2-inch (minimum) outlet.
5. 2-inch (minimum) flanged plug or gate valve.
6. ~~2-inch by 2-inch by 2-inch (minimum) flanged tee.~~
7. 4-inch pressure operated gate valve.
8. 4-inch flanged gate or plug valve.
9. Ram type pressure operated blowout preventers w/rams as shown (double or 2 singles).
10. Flanged type casing head with one side outlet (furnished by Exxon).
11. 2-inch threaded (or flanged) plug or gate valve (furnished by Exxon). Flanged on 5000# WP, threaded on 3000# WP or less.
12. Needle valve (furnished by Exxon).
13. 2-inch nipple (furnished by Exxon).
14. Tapped bull plug (furnished by Exxon).
15. 4-inch flanged spacer spool.
16. 4-inch by 2-inch by 2-inch by 2-inch flanged cross.
17. 2-inch flanged plug or gate valve.
18. 2-inch flanged adjustable choke.
19. 2-inch pipe.
20. 2-inch flanged tee.
21. Pressure-operated adjustable choke (furnished by Exxon).
22. Cameron (or equal.) threaded pressure gage.
23. ~~Threaded~~ flange.
24. 1-inch valve.
25. 2" x 2" spacer flange w/1-inch ta
26. 2" x 2" x 2" x 2" flanged cross.
27. 2" x 4" swage.
28. 4" 3000# pipe without bends.
29. 2" blind flange.

~~35. 2-inch flanged tee.~~

36. 3-inch (minimum) line. (Furnished by Exxon).
37. Trip tank. (Furnished by Exxon).

~~38. 2" flanged plug or gate valve.~~

NOTES:

1. Item 9 may be a double ram-type preventer or two single ram-type preventers with rams as shown.
2. The two valves next to the stack on the fill and kill line to be closed unless drill string is being pulled.
3. Kill line is for emergency use only. This connection shall not be used for filling.
4. Replacement pipe rams and blind rams shall be on location at all times.
5. Only type U, LWS and QRC ram type preventers acceptable.

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SAFETY [redacted] ST - EXXON #1 WILKIN RIDGE UN[redacted]
DRILLING SUPERINTENDENT'S CHECKLIST

Items to be ready before drill-out at 3,000 feet

ITEM	DESCRIPTION	QUANTITY	CHECK IF OK
1.	"BRIEFING AREA" (Near or in Exxon trailer house)	1	( )
2.	Safety Equipment Shed or House	1	( )
3.	Supported Wind Sock with flag located near the end of the cat walk	1	( )
4.	"No Smoking" signs, to be located at: Doghouse stairway, Rig floor, Fuel Storage, & roadway entrance	4	( )
5.	MSA Model 401 Breathing Apparatus	3	( )
6.	MSA Model 402 Cub Breathing Apparatus	1	( )
7.	Spare Cylinders	2	( )
8.	Automatic Pneolater resuscitator - oxygen	1	( )
9.	Spare oxygen cylinder	1	( )
10.	H_2S detectors - ampoule type	100	( )
11.	H_2S detectors (Del Mar Spot Check Type)	18	( )
12.	Safety belts with 250' of ½" rope	2	( )
13.	25 MM Flare gun with 24 Meteor-Type Flare Shots	1	( )
14.	Weather-proof plastic envelopes containing:	2	
	a. List of emergency phone numbers		( )
	b. Checklist		( )
15.	Sets (3 each) of CONDITION WARNING SIGNS	2	( )
16.	First aid kits (complete)	2	( )
17.	Stretcher	1	( )
18.	Fire extinguishers - dry chemical	3	( )
19.	MSA Explosimeter	1	( )
20.	1" butane pilot line to burn pit	1	( )

EXXON COMPANY, U.S.A.

October 23, 1973

Emergency Tool Stockpile

G.D.T.	RECEIVED	M.G.
W.A.G.	Western Exploration Division	
E.G.H.	OCT 25 1973	
R.S.		INF. CEN.
J.R.S.	DRILLING SECTION DENVER, COLORADO	File

Mr. Brudge Elkin
Mr. J. F. Homer
Mr. G. D. Thompson
Mr. W. R. Wardroup
Mr. J. E. Wirsching

The attached "Emergency Tool Stockpile" is an up-to-date listing of special tools and materials that have been made readily accessible to the Division Drilling Organizations in the event of an emergency. Please update your Emergency and/or Contingency information accordingly.

S. E. Loy, III

SEL:vah
Attachment

I. Brown Oil Tool

A. Cam-Kill Packers

1. Exxon Owned

a. (1) 1/2" X 2-3/8" w/1" CS Hydril top connection
b. (1) 3/4" X 2-7/8" w/1" CS Hydril top connection
c. (1) 1" X 3-1/2" w/1" CS Hydril top connection
d. (1) 3-1/4" X 9-1/8" OD (for 10-3/4" casing) w/4-1/2" X-hole connections

Note: All packers equipped with valves. a, b, and c have screw-on "watermellon" centralizers.

e. (2) 1-1/4" CS Hydril box by 1" CS Hydril pin crossover subs
f. (2) spare seal elements for a, b, and c

2. Brown owned for rental

a. 2-7/8" X 7"
b. 9-5/8"

Note: Packers are equipped with valves. In addition, Brown has available a conversion kit for the 7" packer to convert it to a 2-7/8" X 7-5/8".

B. Kill Plugs--Exxon Owned

		Stinger	
1.	2-3/8"	ID 0.750"	OD 0.9375"
2.	2-7/8"	ID 0.750"	OD 1.000"
3.	3-1/2"	ID 1.050"	OD 1.310"

C. Other--Exxon Owned

1. (50) 5/8" rubber balls
2. (50) 1/2" nylon balls
3. (50) 3/4" nylon balls

This equipment is stored at BOT, Houston, Texas.

II. McEvoy

A. Christmas Tree By-Pass Tool

B. Sealing Elements

1. 2-3/8"
2. 2-7/8"
3. 3-1/2"

This equipment is stored at McEvoy, Houston, Texas and Houma, Louisiana and at Exxon's facilities in Kingsville, Texas and Bakersfield, California.

APPENDIX A

EMERGENCY NUMBERS
WESTERN EXPLORATION DIVISION
DENVER DRILLING ORGANIZATION

	Office Number	Office Number (After hours)	Home Number
DRILLING ORGANIZATION			
Gene D. Thompson, Drilling Mgr.	(303) 761-6470	(303) 761-6486	(303) 758-1991
John W. Jackson, Operations	(303) 761-6470	(303) 761-6486	
Ed G. Hays, Operations	(303) 761-6470	(303) 761-6486	(303) 770-4883
Randy Sprouse, Operations	(303) 761-6470	(303) 761-6486	(303) 751-1373
John R. Switzer, Evaluation	(303) 761-6470	(303) 761-6486	(303) 795-9983
Bill A. Grieves, Evaluation	(303) 761-6470	(303) 761-6486	(303) 770-3118
John R. Crouch, Div. Services	(303) 761-6470	(303) 761-6486	(303) 798-6263
Martha Gradwohl, Sec.	(303) 761-6470	(303) 761-6486	(303) 255-6332
DIVISION MANAGEMENT			
P. F. Sollars, Division Mgr.	(303) 761-6470	(303) 761-4114	(303) 321-0693
Hugh P. Bushnell, Geological Mgr.	(303) 761-6470	(303) 761-3942	(303) 770-3219
H. Walt Praetorius, Explor. Advisor	(303) 761-6470	(303) 761-3942	(303) 794-3304
Bill S. Livingston, Law	(303) 761-6470	(303) 761-4093	(303) 238-2984
Lloyd A. Dodd, Land	(303) 761-6470		(303) 756-7395
Jack W. Howard, Public Relations	(303) 761-6470	(303) 761-3803	(303) 771-2818
Dorsey Hawkins, Div Accountant	(303) 761-6470	(303) 761-3904	(303) 771-8549
R. M. Meek, Geophysical Mgr.	(303) 761-6470	(303) 761-3942	(303) 986-2686
EXPLORATION-PRODUCTION LIAISON			
Rex M. Smith (Los Angeles)	(213) 879-2700	(213) 879-2837	(213) 784-7711
Judd Miller, Jr. (Los Angeles)	(213) 879-2700	(213) 879-2849	(213) 886-2481
L. H. Byrd (Midland)	(915) 684-4411	(915) 684-4712	(915) 694-2252
J. L. Rogers (Okla. City)	(405) 528-2411	(405) 528-2416	(405) 341-4610
HEADQUARTERS DRILLING MGMT.			
Jim V. Langston	(713) 221-5035	(713) 221-5035	(713) 497-8769
Ken L. Diebel	(713) 221-6776	(713) 221-6776	(713) 465-1444
Sam E. Loy	(713) 221-4959	(713) 221-4959	(713) 461-0861
R. E. Hicks	(713) 221-3966	(713) 221-3966	(713) 351-4677

July 22, 1974

APPENDIX A (CONT.)
EXXON #1 WILKIN RIDGE UNIT
DUCHESNE COUNTY, UTAH

HOSPITAL	LOCATION	TELEPHONE NO.
Duchesne County Hosp.	Roosevelt, Utah	AC 801 722-2443
AMBULANCES		
Stewart's Ambulance Service	Roosevelt, Utah	AC 801 722-3355 Emergency: Mobile - AC 801 722-4114
DOCTORS (local)		
ROOSEVELT MEDICAL CLINIC	Roosevelt, Utah	AC 801 722-2211 (Ofc.)
Dr. T. M. Buxton	Roosevelt, Utah	Home AC 801 722-2104
Dr. Gary White	Roosevelt, Utah	Home AC 801 722-2520
Dr. G. Frank Madsen	Roosevelt, Utah	Home AC 801 722-2766
Dr. Phillip Condie	Roosevelt, Utah	Home AC 801 722-3650
DOCTORS (Exxon)		
Dr. R. A. Wise	Houston, Texas	AC 713 221-3636 (O) 622-1422 (H)
Dr. J. W. Hammond	Houston, Texas	AC 713 221-3636 (O) 668-7024 (H)

APPENDIX A (CONT.)
EXXON #1 WILKIN RIDGE UNIT
DUCHESNE COUNTY, UTAH

GOVERNMENT AGENCIES	LOCATION	TELEPHONE NO.
United States Geological Survey Gerald R. Daniels, District Engineer	8426 Federal Building Salt Lake City, Utah 84138	AC 801 524-5650 (O) 262-1272 (H)
Edgar W. Guynn	8426 Federal Building Salt Lake City, Utah 84138	AC 801 582-7042 (H)
Bureau of Land Management		
Paul Tanner ("Contact")	Vernal, Utah	AC 801 789-4307 (H) 789-1362 (O)
Don Pendleton (Dist. Mgr.)	Vernal, Utah	AC 801 789-1551 (H)
Utah Div. of Oil & Gas Conservation Cleon B. Feight, Dir. Paul W. Burchell, CH. P.E.	Salt Lake City, Utah	AC 801 328-5771
*Duchesne County Sheriff *George Marett, Sheriff *Vernon Hadden, Ch. Deputy	Duchesne , Utah	*AC 801 738-2424
*Merrill ("Chico") Catwell, Resident Deputy	Roosevelt, Utah	AC 801 738-2424 (w/radio contact)
Radio Answering Service - Vernal, Utah		
Judd Answering Service ("Radio Dispatch")		AC 801 789-4200 Ask for Unit 684

Drilling Supt. Car (Bart Highland) - Mobile 303 565-9646, Channel YJ (Registered Cortez, Colo.)
(Bill Bruce) - Mobile _____

*Sheriff's Office dispatches calls for Highway Patrol and Fire Dept. (Also can dispatch Ambulance).

Home Ph: Bart Highland - 303 565-3326
Bill Bruce - 303 795-5766

EGH:al
7-30-74

CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

WELL Exxon #1 Wilkin Ridge Unit

NO. 43-013-30327

GEOLOGIST J. W. Boettcher

CORE NO 1 INTERVAL (M.D.) 10273-312 INTERVAL (I.E.S.) _____ RECOVERY 37' FORMATION Mesa Verde

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY : List-type, color, hardness, grain size, angularity, sorting & accessories.	PERME-ABILITY	POROSITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROB. PROD.
		SHALE, black abundant carbonized, plant									
10275		remains, (stems and leaves) blocky to slightly									
		fissile, carbonaceous.									
10280											
		SAND, gr. vf-f, silty, Abd. Crossbedded	Poor	Poor	Slight	None	None	None	None	Pale Yellow even	
10285		laminae, carbonaceous claystone, mostly Qz.	Poor	Poor	Slight	None	None			"	
		grs., few coal and sh. grs., siliceous cement,	Poor	Poor	Slight	None	None			"	
		hard, poor sorting, pockets calcareous.	Poor	Poor	Slight	None	None			"	
10290		SAND, lite g to gr., f-gr., some med. gr., fw.	Poor	Fair	Good	?	None	Hev. to Slw. Strm	Bright	Gold uneven	Yes
		sl., sil. cement, slightly calc. vis porosity	Poor	Fair	Good	?	None	"	Bright	"	Yes
		quartzose some coaly and shale grs.	Poor	Fair	Good	?	None	"	Bright	"	Yes

CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

WELL Exxon #1 Wilkin Ridge Unit (Continued)

NO.

GEOLOGIST J. W. Boettcher

CORE NO 1 INTERVAL (M.D.) 10273-312 INTERVAL (I.E.S.) RECOVERY 37' FORMATION Mesa Verde

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY : List-type, color, hardness, grain size, angularity, sorting & accessories.	PERME-ABILITY	PORO-SITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROB. PROD.
10295											
10300											
		SHALE, crystn., blk., vy carb., carbonized lam:									
		some plant remains, blocky.									
		SAND, vf-fg-mg, silty, siliceous, abd. carb.,	Poor	Poor	Slight	None	None	NOne	None	Pale Yellow	
		sandy, silic., hard, occ. carbonized plant frag.									
10305											
		SHALE, crystn., blk., carbonaceous carbonized									
		plant remains .									
10310											

CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

WELL Exxon 60 1 Wilbur Ridge Unit

NO. _____ GEOLOGIST John LaRwich

CORE NO 2 INTERVAL (M.D.) 10,740'-10,801' INTERVAL (I.E.S.) _____ RECOVERY _____ FORMATION KMV

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY : List - type, color, hardness, grain size, angularity, porting & accessories.	PERMEABILITY	POROSITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROD. PROD.
10,740-41		SH M DK GRY SFT SL CALC IN PT SLIC W/ THIN INTDD COALS	FAIR	POOR	NO	NONE	NO	NO	NO	NO	NO
42		SS LT M GRY MOD HD FN SA W SRTD CALC CARB	POOR	"	"	"	"	"	"	"	"
		SLTST LT M GRY MOD HD SR W SRTD CALC	FAIR	"	"	"	"	"	"	"	"
44		SS LT M GRY SFT VFN SA W SRTD CALC W/ THIN LAM CARB STRKS	POOR	"	"	"	"	"	"	"	"
45		SS LT GRY HD VFN ANG W SRTD SL CALC SILIC	"	" 5	"	"	"	"	"	"	"
46		SS A/A	"	"	"	"	"	"	"	"	"
47		SS A/A	"	"	"	"	"	"	"	"	"
48		SS A/A	"	"	"	"	"	"	"	"	"
49		SS A/A	"	"	"	"	"	"	"	"	"
50		SS BRNSH GRY MOD HD ANG W SRTD V CALC TITE	V "	" 3.2	"	"	"	"	"	"	"
51		SS A/A	"	"	"	"	"	"	"	"	"
		SS A/A	"	" 3.0	"	"	"	"	"	"	"
53		SS LT M GRY W/ SH INTERCLAS SL CARB HD TITE M ANG SL CALC	"	"	"	"	"	"	"	"	"
54		SS A/A NON CALC FLD W/ SAME INTERCLAS SH	"	"	"	"	"	"	"	"	"
55		SS LT M GRY HD ANG W SRTD SL CALC	"	"	"	"	"	"	"	"	"
56		SS A/A	"	"	"	"	"	"	"	"	"
57		SS M DK GRY SFT VFN SA W SRTD SILIC	"	"	"	"	"	"	"	"	"
58		SS M GRY SFT FRM SILIC SA W SRTD MIC MICA FLD	"	" 7.8	"	"	"	"	"	"	"
59		SS LT M GRY MOD HD VFN FN SA W SRTD THIN LAM CARB MAT	"	"	"	"	"	"	"	"	"
60		SS M DK GRY SFT FRM FN SA W SRTD SILIC CARB	"	"	"	"	V SCAT GOLD	"	"	"	"
61		SS M GRY SFT FN SR SA W SRTD SILIC	"	"	"	"	NONE	"	"	"	"

CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

WELL Exxon #1 Wilkin Ridge Unit

NO.

GEOLOGIST JOHN LEETWICH

CORE NO. 2 INTERVAL (M.D.) INTERVAL (T.V.D.) RECOVERY FORMATION KWV

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY : list type, color, hardness, grain size, lithology, sorting & accessories.	PERMEABILITY	POROSITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROB PROD
10,702		SS A/A	POOR	5.6 POOR	NO	NO	NO	NO	NO	NO	NO
63		SH M GRY HD SL CALC V CARB SL MIC PYR INTB SS AA	"	"	"	"	"	"	"	"	"
64		SS LT GRY SFT VFN CALC SA W SRTD	"	" 5.8	"	"	"	"	"	"	"
65		SS LT GRY MOD HD VFN CALC W SRTD MIC MICA	"	"	"	"	"	"	"	"	"
66		SS AA	"	"	"	"	V FNT DULL GOLD	"	"	"	"
67		SS AA SL SLTY	"	" 5.8	"	"	NO	"	"	"	"
68		SH M GRY SFT SL CALC SDY CARB MIC MICA	"	"	"	"	"	"	"	"	"
69		SS M GRY MOD HD VFN FN CALC MICA W/ INTERCLAS SH	"	"	"	"	"	"	"	"	"
70		SH DK GRY FRM SL CALC	"	" 5.7	"	"	"	"	"	"	"
71		AA W LAM SS & SH VFN CALC	"	"	"	"	"	"	"	"	"
72		SS M GRY MOD HD VFN SR CALC MOD W SRTD	"	"	"	"	SCAT DULL GOLD	V SL	V PALE BLUE WHT	"	"
73		SS GRY WHT VFN FN SA SL CALC W MOD W SRTD	"	" 7.2	"	"	NO	NO	NO	"	"
74		SS AA W/ PLANT REMAINS	"	"	"	"	"	"	"	"	"
75		SS M GRY LT GRY HD VFN FN CALC	"	"	"	"	"	"	"	"	"
76		SS M GRY SFT VFN FN SA SL CALC W SRTD	"	" 8.3	"	"	"	"	"	"	"
77		SS AA	"	"	"	"	"	"	"	"	"
78		SS AA	"	"	"	"	"	"	"	"	"
79		SS AA	"	" 9.0	"	"	"	"	"	"	"
80		SS AA	"	"	"	"	"	"	"	V FNT BLUE WHT	"
81		SS LT M GRY MOD HD VFN FN SR W/ INTERCLAS SH	"	"	"	"	"	"	"	NO	"
82		SH AA CARB	"	" 5.7	"	"	"	"	"	"	"

CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

WELL: Exxon #1 Wilkins Ridge UNIT

NO. _____ GEOLOGIST JOHN LEFTWICH

CORE NO. 2 INTERVAL (M.D.) _____ INTERVAL (I.E.S.) _____ RECOVERY _____ FORMATION KMV

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY: Lim-type, color, hardness, grain size, angularity, sorting & accessories.	PERMEABILITY	POROSITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROB PROD
10,763		SS LT M GRY VFN FN MOD HD SA CALC MICA CARB	POOR	POOR	NO	NO	NO	NO	NO	NO	NO
84		SS AA	"	"	"	"	"	"	"	"	"
		SS AA	"	6.7	"	"	"	"	"	"	"
86		SS AA	"	"	"	"	"	"	"	"	"
87		SS AA	"	"	"	"	"	"	"	"	"
88		SS AA	"	6.4	"	"	"	"	"	"	"
89		SS AA	"	"	"	"	"	"	"	"	"
90		SS AA	"	"	"	"	"	"	"	"	"
91		SS AA	"	8.8	"	"	"	"	"	"	"
92		SS AA	"	"	"	"	"	"	"	"	"
93		SS AA	"	"	"	"	"	"	"	"	"
94		SS AA W/ INTERCLAS SH FN M GR	"	7.6	"	"	"	"	"	"	"
95		SS AA	"	"	"	"	"	"	"	"	"
96		SH M DK GRY FRM BLKY V CARB	"	"	"	"	"	"	"	"	"
97		SH BLK W/ THIN LAMNA COALS	"	5.6	"	"	"	"	"	"	"
98		SS AA	"	"	"	"	"	"	"	"	"
99		SS LT M GRY HD VFN FN SR CALC W SRTD	"	6.2	"	"	"	"	"	"	"
10,800		SS AA W/ SME INTERCLAS SH	"	"	"	"	"	"	"	"	"
01		SS LT M GRY HD VFN SR SA V CALC W SRTD	"	"	"	"	"	"	"	"	"
		ALL ABOVE SS COULD BE CLASSED AS S.B.P.	"	"	"	"	"	"	"	"	"

CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

LL Wilkin Ridge Unit

Exxon #1

GEOLOGIST John Laffoon

CORE NO. 3 INTERVAL (M.D.) 11,196'-11,221' INTERVAL (T.V.D.) RECOVERY 25' FORMATION

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY: (Wet-type, color, hardness, grain size, angularity, sorting & accessories.	PERME-ABILITY	PORO-SITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROD. PROC.
185-90		SH BLK MOD HD CARB	NONE	NONE	NO	NO	NO	NO	NO	NO	NO
97		SH AA	"	"	"	"	"	"	"	"	"
		SH AA	"	"	"	"	"	"	"	"	"
		SH AA W/ PLANT REMAINS	"	"	"	"	"	"	"	"	"
90		SH AA W/PLANT REMAINS	"	"	"	"	"	"	"	"	"
91		SH AA	"	"	"	"	"	"	"	"	"
92		SH AA	"	"	"	"	"	"	"	"	"
93		SH DK GRY SL CARB ND	"	"	"	"	"	"	"	"	"
94		SH AA W/ PLANT REMAINS	"	"	"	"	"	"	"	"	"
95		SH AA	"	"	"	"	"	"	"	"	"
96		SH DK GRY BLK V HD SDY & SLTY SL CARB	"	"	"	"	"	"	"	"	"
		SH AA	"	2.6	"	"	"	"	"	"	"
		SLTST BRNSH GRY V HD ARG SL CALC SA	"	"	"	"	"	"	"	"	"
99		SLTST BRNSH GRY V HD SL CALC W/TR PLANT REMAINS	"	4.4	"	"	"	"	"	"	"
1,200		SH BLK MOD HD HIGHLY CARB PLANT REMAINS	"	"	"	"	"	"	"	"	"
01		SH AA	"	"	"	"	"	"	"	"	"
02		SH AA	"	"	"	"	"	"	"	"	"
03		SH DK GRY FRM SLTY PLANT REMAINS	"	1.8	"	"	"	"	"	"	"
04		SH DK GRY, FRM	"	2.3	"	"	"	"	"	"	"
05		SH DK GRY BLK MOD HD CARB	"	1.1	"	"	"	"	"	"	"
06		SLTST BRNSH GRY HD SL CARB	"	"	"	"	"	"	"	"	"

CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

WELL Willis Ridge Unit

NO. Exxon #1

GEOLOGIST JOHN LEETHICH

CORE NO 3 INTERVAL (M.D.) 11135-11201 INTERVAL (T.V.D.) _____ RECOVERY 66 FORMATION _____

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY : List-type, color, hardness, grain size, angularity, sorting & accessories.	PERME-ABILITY	POROSITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROD. PROD.
11,206 07		SH BRNSH GRY MD SL CARB	NONE	NONE	NO	NO	NO	NO	NO	NO	NO
08		SH AA	"	"	"	"	"	"	"	"	"
09		SH AA	"	"	"	"	"	"	"	"	"
10		SH BLK MOD HD CARB PLANT REMAINS	"	"	"	"	"	"	"	"	"
11		SH AA W TR COAL	"	"	"	"	"	"	"	"	"
12		SH AA	"	"	"	"	"	"	"	"	"
13		SH BRNSH GRY SLTY MD CARB SL CALC	"	"	"	"	"	"	"	"	"
14		SH AA	"	"	"	"	"	"	"	"	"
15		SLTST BRNSH GRY V MD V SL CARB SL CALC	"	POOR	"	"	"	"	"	"	"
16		SLTST AA	"	"	"	"	"	"	"	"	"
17		SLTST AA	"	"	"	"	"	"	"	"	"
18		SH GRY BLK MOD HD SLTY CARB W/SCAT PLANT REMAINS	"	NONE	"	"	"	"	"	"	"
19		SH BLK MOD HD ABUNT CARB MAT PLANT REMAINS SME SLTY	"	"	"	"	"	"	"	"	"
20		SH AA	"	"	"	"	"	"	"	"	"
21		SLTST BRNSH GRY MOD HD SL CARB SL CALC	"	"	"	"	"	"	"	"	"
22		SLTST AA	"	"	"	"	"	"	"	"	"
23		SLTST AA CALC	"	"	"	"	"	"	"	"	"
24		SLTST AA	"	"	"	"	"	"	"	"	"
25		SH BLK MOD HD ABUNT CARB PLANT REMAINS	"	"	"	"	"	"	"	"	"
26		SH GRYSH BLK MD SLTY ABUNT PLANT REMAINS	"	"	"	"	"	"	"	"	"
27		SH BRNSH GRY MOD HD SLTY CARB	"	"	"	"	"	"	"	"	"

CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

WELL: Vermilion Ridge Unit

NO. Exxon #1

GEOLOGIST JOHN LEEWICH

CORE NO 3 INTERVAL (M. D.) 11,185 - 11,231 INTERVAL (T.V.D.) _____ RECOVERY 46' FORMATION _____

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY : Lith-type, color, hardness, grain size, angularity, sorting & accessories.	PERMEABILITY	POROSITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROB. PROD.
11,227-28		SH AA	NONE	NONE	NO	NO	NO	NO	NO	NO	NO
29		SH GRY BLK FRM ABUNT CARB MAT & PLANT REMAINS TR SLT	"	"	"	"	"	"	"	"	"
		SH AA	"	"	"	"	"	"	"	"	"
31		SH AA	"	"	"	"	"	"	"	"	"

FORM OGC-8-X
File in Quadruplicate

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS CONSERVATION
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Exxon #1 Wilkin Ridge Unit; Permit No. 43-013-30327

Operator Exxon Corporation

Address P. O. Box 120, Denver, Colorado 80201

Contractor Brinkerhoff Drilling Co., Inc.

Address 600 Denver Club Building, Denver, Colorado

Location SE 1/4, NW 1/4; Sec. 29 ; T. 10 N/S; R. 17 E/W:, Duchesne County.

Water Sands: *

	Depth: From -	To -	Volume: Flow Rate or Head -	Quality: Fresh or Salty -
1.	1820	2820	-	Poss. Brackish Water
2.	2820	4100	-	Prob. Salt Water
3.	4510	4545	-	Prob. Salt Water
4.				
5.				

(Continue on Reverse Side of Necessary)

*No water sands were tested or otherwise positively identified.

Formation Tops:

Uinta Fm.- Surface-1792'
Green River 1792-5130'
Wasatch 5130-9310'
Mesa Verde 9310-TD

NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.

July 8, 1974

Exxon Corporation
Box 120
Denver, Colorado 80201

Re: Well No. Wilkin Ridge Unit #1
Sec. 29, T. 10 S, R. 17 E,
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to the above will be greatly appreciated.

The API number assigned to this well is 43-013-30327.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sw
cc: U.S. Geological Survey

SPILL PREVENTION CONTROL & COUNTERMEASURE PLAN
PART I
GENERAL INFORMATION

1. Name of rig BRINKERHOFF DRILLING COMPANY RIG #26

2. Type of rig Onshore, National 55

3. Location of rig Sweetwater County, Wyoming

4. Name and address of owner or operator:

   Name BRINKERHOFF DRILLING COMPANY, INC.

   Address 600 Denver Club Building

   Denver, Colorado 80202

5. Designated person accountable for oil spill prevention at rig:

   Name and title Art Jensen, Toolpusher

6. Facility experienced a reportable oil spill event during the the twelve months prior to Jan. 10, 1974 (effective date of 40 CFR, Part 112). (If YES, complete Attachment #1.) _____

****

MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.

Signature G. E. Stevens by Sm

Name G. E. Stevens

Title Vice President - Operations

****

CERTIFICATION

I hereby certify that I have examined the facility, and being familiar with the provisions of 40 CFR, Part 112, attest that this SPCC Plan has been prepared in accordance with good engineering practices.

David E. Smink
Printed Name of Registered Professional Engineer

(Seal)

David E. Smink
Signature of Registered Professional Engineer

Date July 11, 1974

Registration No. 1576 State: Wyoming

PART I
GENERAL INFORMATION

7. Prediction of the direction of flow, and the rate of flow is not practical from mobile drilling and workover rigs because these will vary at each location depending upon topography, weather and/or sea conditions, differences in drilling operations requiring different equipment, and other factors. Total volume of potential spills can be specified for only tanks or storage normally installed (such as on mobile offshore rigs) or included as part of accessory equipment with each land rig as follows:

Tank or Storage	Type of Failure	Volume
Diesel Tank	None	9,000 gallons
Mud Pumps (2)	None	250 GPM ea.
Mud Tanks (Steel)	None	21,420 gallons

Discussion:

See Attachment #2

Name of Rig BRINKERHOFF DRILLING COMPANY RIG #26

Owner or Operator BRINKERHOFF DRILLING COMPANY, INC.
(Exxon)

PART I
GENERAL INFORMATION

8. Containment or diversionary structures or equipment to prevent oil from reaching navigable waters are practicable (See Part II) (Also see Attachment #2) _____

9. Inspection and records:

A. The required inspections follow written procedures. _____
B. The written procedures and a record of inspections, signed by the appropriate supervisor or inspector are attached as attachment #3 _____

10. Personnel, Training, and Spill Prevention Procedures:

A. Personnel are properly instructed in the following:
(1) Operation and maintenance of equipment to prevent oil discharges, and _____
(2) Applicable pollution control laws, rules, and regulations _____
Describe procedures employed for instruction: _____
_____
_____
_____
_____
_____
_____

B. Scheduled prevention briefings for the operating personnel are conducted frequently enough to assure adequate understanding of the SPCC Plan. _____
Describe briefing schedule: _____
_____
_____
_____
_____
_____
_____

Name of Rig _____

Operator _____

SPCC PLAN
ATTACHMENT #1
SPILL HISTORY

(Complete this form for any reportable spill (S) which has (HAVE) occurred from this rig during the twelve months prior to January 10, 1974.)

1. Date_____ Volume_____ Cause:_____

Navigable Water: _____

Corrective action taken: _____

Plans for preventing recurrence: _____

2. Date_____ Volume_____ Cause:_____

Navigable Water: _____

Corrective action taken: _____

Plans for preventing recurrence:_____

3. Date_____ Volume_____ Cause:_____

Navigable Water: _____

Corrective action taken: _____

Plans for preventing recurrence: _____

Name of rig: _____

Operator: _____

ATTACHMENT #2

OIL SPILL CONTINGENCY PLAN IN THE EVENT OF:

1. Depending on location secondary containment is impracticable, or;

2. Abnormal or accidental spill may be greater than secondary

containment is:

If secondary containment is impractical, or the accidental spill is greater than secondary containment, utilization of bulldozers, road patrols and/or back-hoes will be used to dike an area or hole to trap the spill. The spill will then be loaded into a truck by use of a pump, and properly disposed of. Any visible spill marks will then be covered or "dozed up" and disposed of.

A two-way radio and/or mobile phone will be kept in operation at all times in order to get fast communication to a source of bulldozers, road patrols, and/or back hoes to the site of spill immediately.

B.O.P. checks are conducted on a frequent schedule to insure they are in proper working order to control any blow-outs or excess flows which could cause accidental spillage.

Written committment of Manpower is attached _____

Name of Rig BRINKERHOFF DRILLING COMPANY RIG #26

Owner or Operator BRINKERHOFF DRILLING COMPANY, INC.

BRINKERHOFF DRILLING COMPANY, INC.

Name	Title	Address	Phone No.
G. E. Stevens	Vice President - Operations	600 Denver Club Bldg. Denver, Colo. 80202	Office: 303/222-9733 Home: 303/771-5007
Larry E. McDaniel	Northern Area Manager	600 Denver Club Bldg. Denver, Colo. 80202	Office: 303/222-9733 Home: 303/770-7947
Samuel C. Foster	Southern Area Manager	600 Denver Club Bldg. Denver, Colo. 80202	Office: 303/222-9733 Home: 303/798-4654
John E. Burns	Drilling Superintendent	619 No. Sun Drive, Apt.# 7 Casper, Wyoming 82601	Office: 307/235-6628 Home: 307/265-9661
John J. Sullivan	Casper Office Manager	P. O. Box 1568 Casper, Wyoming 82601	Office: 307/235-6628 Home: 307/234-1740
Donald Boyles	Purchasing Agent	P. O. Box 1568 Casper, Wyoming 82601	Office: 307-235-6628 Home: 307/234-2093
Leslie Walker	Contracts Accountant	600 Denver Club Bldg. Denver, Colo. 80202	Office: 303/222-9733 Home: 303/237-3206
.. C. Burns	Vice President - Finance	600 Denver Club Bldg. Denver, Colo. 80202	Office: 303/222-9733 Home: 303/424-2193
James D. Craig	Contact Representative	600 Denver Club Bldg. Denver, Colo. 80202	Office: 303/222-9733 Home: 303/771-5648

600 Denver Club Building
Denver, Colorado 80202
Phone (303) 222-9733

BRINKERHOFF DRILLING COMPANY, INC.

RIG NO. 26

DRAWWORKS — National 55 double drum with 1¼" drilling line and Sand Line Drum capacity of 11,900 ft. 11,900 ft. of 9 16" line. Drawworks is equipped with Dynamatic 5019 Electro-Magnetic Brake and a Bear Automatic Driller.

RIG POWER — Three Caterpiller D-353E Turbocharged-Aftercooled, having 390 HP each at 1200 RPM. Power supplied through National 80-B three-engine compound.

MUD PUMPS

Emsco D-500 7½" x 16"	Rated at 500 HP	Compound Driven
Emsco D-500 7½" x 16"	Rated at 500 HP	Compound Driven

DERRICK — Lee C. Moore 131', Cantilever, with Lee C. Moore 6-Sheave Crown block.

Gross Nominal Capacity	510,000 lbs.
Hook Load Capacity with 6 lines	306,000 lbs.
Hook Load Capacity with 8 lines	326,000 lbs.
Hook Load Capacity with 10 lines	340,000 lbs.

SUBSTRUCTURE — Lee C. Moore 46' x 22' x 15' with 12' clearance between ground level and the underside of rotary beams.

Drill Pipe Setback Capacity	200,000 lbs.
Casing Capacity	300,000 lbs.

ROTARY TABLE — Oilwell Model HD - 20½" rated at 250 tons.

TRAVELING BLOCKS — McKissick Model RW rated at 250 tons.

HOOK — Web Wilson Hydra-Hook rated at 250 tons.

SWIVEL — Emsco Model L-300 rated at 300 tons.

SHALE SHAKER — Single Rumba Model 4860 B-2.

DESANDER — CEDCO 4-Cone with BJ 6" x 8" pump driven by Caterpillar D-311 diesel engine.

MUD TANKS — Three–30' x 8' x 4' steel with a capacity of 170 barrels each, 510 barrels total.

WATER TANK — One - 35' x 8' x 8' steel with 335 barrels capacity.

BOP EQUIPMENT
Hydril Model GK, 12" Series 900.
Shaffer Model E, 12" Series 900, hydraulic, double gate.
3" - 3000 psi - choke manifold with two adjustable chokes.
Shaffer Drill Pipe Safety Valve.
Hydril Closing Unit with 80 gallon capacity.

FUEL — Diesel, one steel tank, 24' x 8' diameter with 9,000 gallons capacity.

LIGHT PLANT — Two Caterpillar 50 KW generators. Rig complete with Vapor-Proof lighting.

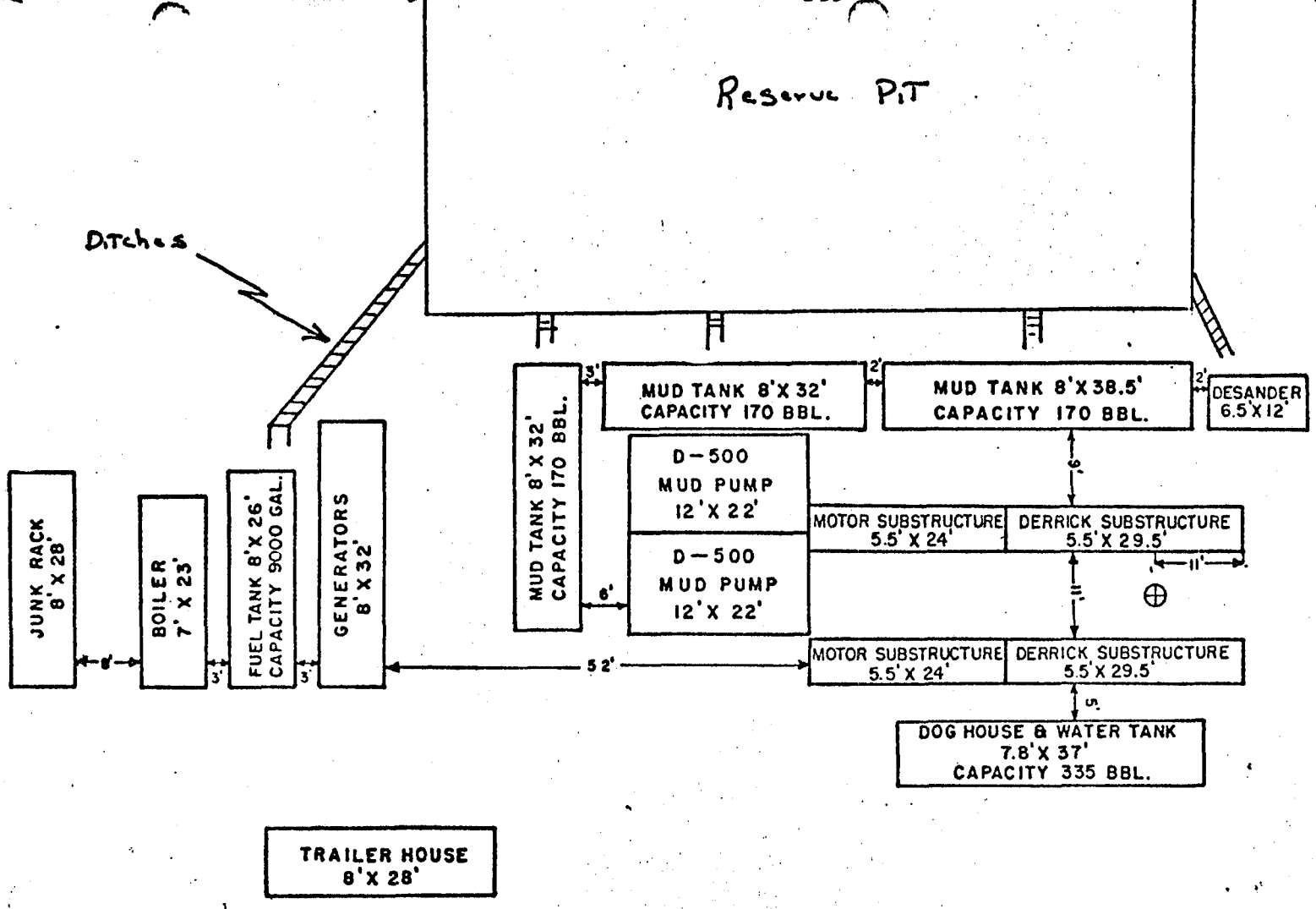
BOILER — 40 HP, completely automatic, diesel fired.

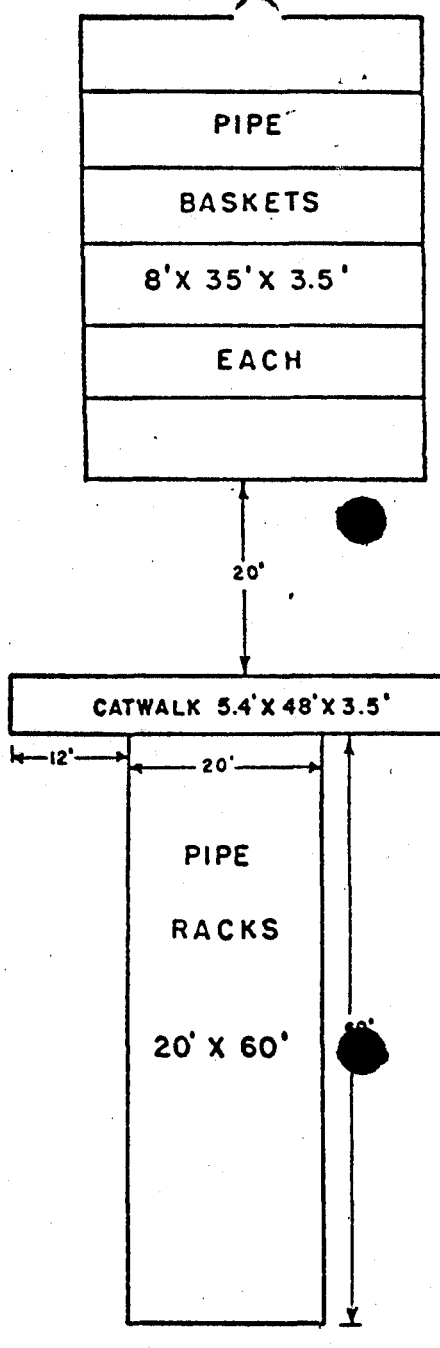
TRAILER HOUSE — 28' x 8' with cooking facilities.

DRILL PIPE — 4½", Grade E, 16.60#, with 6" O.D. hard banded X-Hole tool joints.

DRILL COLLARS — As required. Hevi-Wate drill pipe also available.

PERSONNEL
Rig Supervisor.
Four - 5-Man Crews working 42 hours per week.



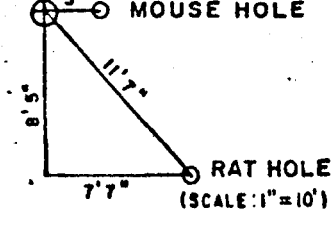


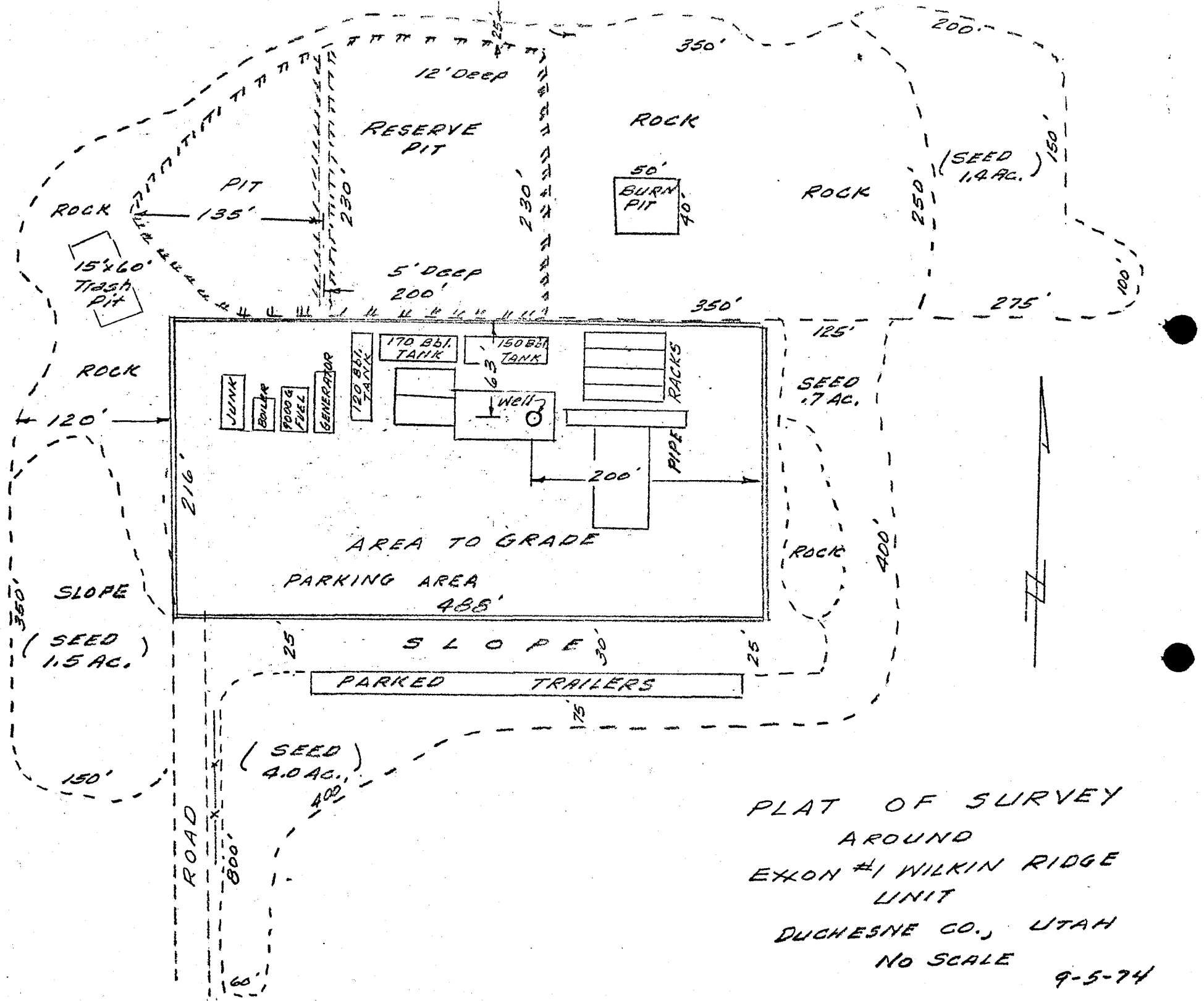
SCALE: 1"=20'

BRINKERHOFF DRILLING COMPANY RIG NO. 26

(1) GROUND LEVEL TO BOTTOM OF ROTARY BEAMS: 13 FEET-2 INCHES
(2) GROUND LEVEL TO KELLY BUSHINGS: 17 FEET – 8 INCHES
(3) RECOMMENDED LOCATION SIZE: 300 FEET X 125 FEET
150 FEET FROM CENTER OF HOLE TO FRONT
150 FEET FROM CENTER OF HOLE TO BACK
35 FEET FROM CENTER OF HOLE TO RESERVE PIT
90 FEET FROM CENTER OF HOLE TO EDGE
(4) ABOVE LAYOUT IS SUGGESTED, HOWEVER EQUIPMENT CAN BE REARRANGED TO FIT TIGHT LOCATIONS.

RAT & MOUSE HOLE DETAIL





PLAT OF SURVEY
AROUND
EXXON #1 WILKIN RIDGE
UNIT
DUCHESNE CO., UTAH
NO SCALE

9-5-74

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

2. NAME OF OPERATOR: Exxon Corporation

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: P. O. Box 120, Denver, Colorado 80201

9. WELL NO.: Exxon #1 Wilkin Ridge Unit

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' FNL, 2055' FWL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29-T10S-R17E, SLM

14. PERMIT NO.: API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6192' RDB

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	X	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		✓ ABANDONMENT*	
REPAIR WELL		CHANGE PLANS (Csg.)	X	(Other) Surface Location			X
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Casing Program

13-3/8" 48 ppf conductor cemented at 64' RDB in dense rock.
8-5/8" 32 & 24 ppf surface casing setting depth changed from the 2000' to 3000' because of potential lost return zones.

Fracture Treatment

Based on formation evaluation of nearby wells, it may be necessary to stimulate the well to obtain commercial production. Tentatively a massive formation fracturing treatment is under consideration similar to the attached evaluation and stimulation proposal. With the recent developments, it may be possible to accomplish fracturing in two rather than three massive jobs.

Contingency Plans

For your information and concurrence, we attach Exxon's Contingency Plan and Brinkerhoff's Spill Prevention & Control Plan. Exxon will immediately contact the U.S.G.S. and the B.L.M. in the event of an emergency, using the Code of Federal Regulations as our basic policy. However, should either office have additional instructions, please advise so that we can immediately incorporate these in our overall plan.

(Continued on Page 2)

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Division Drilling Manager DATE Sept. 6, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

DATE SEP 9 1974

BY [signature]

*See Instructions on Reverse Side

SPILL PREVENTION & CONTROL

A. E.P.A.

B. S. P. C. C.

C. DIV. OF HEALTH -
DEPT. OF SOCIAL SERVICES-
STATE OF UTAH

ONSHORE OIL DRILLING AND PRODUCTION FACILITY

D. Oil Drilling and Workover Facility

SPCC Plans prepared by owners/operators for drilling/workover facilities include considerations for (a) drainage, (b) tanks, (c) transfer operations that are applicable to individual units. A plan may be prepared intended to restrain oil from reaching water at any location and remain unchanged as the rig is moved from site to site.

The regulation provides specific precautions concerning "location" which may be omitted from the basic plan for the mobile unit. Requirements for "back-up protection" at individual locations are negotiable between the lease operator and the rig operator but must be provided.

Facility components and accessory equipment should be positioned or arranged to minimize potential oil or fuel spills from reaching water.

Where arrangement of components and accessory equipment cannot effectively reduce the potential threat to water, it will be necessary to complete the strong contingency plan using Attachment #2 of the General Information package.

1. Before drilling below casing, install a blowout preventer assembly and well control system. This may be required also during workovers if warranted by anticipated pressures.
2. The blowout preventer assembly and well control system must be capable of controlling any wellhead pressure expected to be encountered while that installation is on the well.
3. All casing and BOP installations must conform to state regulations.
4. Catchment basins or diversion structures such as dikes may be required in some locations where the SPCC Plan accompanying the mobile facility appears inadequate to restrain oil from reaching water.

ONSHORE OIL DRILLING AND PRODUCTION FACILITY

B. Bulk Storage Tanks

1.a. Secondary containment having holding capacity at least equal to the largest tank or vessel plus sufficient freeboard to allow for precipitation must be provided.
b. It may be necessary to include a discussion to present considerations such as absorbent soil characteristics which influence decisions concerning catchment basins or holding ponds.
2.a. Must be of material and construction compatible with material stored and conditions of storage.
b. As far as practical, all tank battery installations should be fail-safe engineered or updated to prevent spills. The following are suggested for consideration:
(1) sufficient capacities to hold storage during unattended periods
(2) overflow equalizing lines between tanks so that an overfull tank will drain to an adjacent tank.
(3) adequate measures to prevent collapse during pipeline runs
(4) high level sensors to register alarm when connected to a computer production control system.
3. All tanks or visually examined on a scheduled periodic basis including aboveground foundations and supports.

C. Facility Transfer Operations

This section covers the movement of oil (or petroleum substances) by any means, pipeline or other, within the facility boundaries. It includes well flowlines and lines in the process area such as from treater to storage tank as well as lines between processing vessels in the area.

1.a. Aboveground valves and pipelines should be regularly examined by operating personnel to assess the condition of glands, bodies, joints, connections, pipeline supports and metal surfaces.
b. Saltwater disposal facilities should be regularly observed to insure that oil from their operations is restrained from reaching water.
2. Records of flowline repairs should be used to identify trouble spots to be upgraded or adequately protected in a maintenance and replacement program.

ONSHORE OIL DRILLING & PRODUCTION FACILITY

Package contains 2 pages, API Attachment #3, and Exxon Attachment D.

Retaining barriers such as dikes or firewalls, or directional diversionary devices such as curbing or drains, must be provided as appropriate at each facility.

Accumulation devices such as catchment basins or retention ponds may alternately be provided to permit returning oil discharges to the facility.

Page 1 of 2

A. Facility Drainage

1.a. Manual type valves, or closures such as vertical swing joints rising above firewall height, should be locked in the nondrain position.

b. Rainwater may be drained if the condition of the water is inspected before being drained to ensure compliance with applicable water quality standards and will not permit oil to reach water.

2. Oil accumulations should be expeditiously disposed of in an approved manner such as being returned to the facility for processing or in other example such as oiling down lease dirt roadways.

Note: Use Exxon Attachment D to describe the inspection procedure and as the record for reporting inspections of field drainage ditches, road ditches and oil traps or skimmers for oil accumulations.

3.a. Rainwater may be drained from diked areas if the condition of the water is inspected before being drained to ensure compliance with applicable water quality standards and will not permit oil to reach water. Catchment basins should not be located in areas subject to periodic flooding.

b. Rainwater may be drained if the following procedures are followed:

(1) Normally lock the drain device in the closed position.

(2) Inspect the water to ensure compliance with applicable water quality standards and that drainage will not permit oil to reach water.

(3) The bypass valve is opened and resealed following drainage under responsible supervision.

(4) Records of bypassing and drainage events are shown on Attachment 3.

CONTINGENCY PLAN - EXXON #1 WILKIN RIDGE UNIT

I. OBJECTIVES

The objectives of the Contingency Plan for this wildcat well are as follows:

A. To outline the Division emergency and catastrophe organizations.

B. To define the operating conditions at the wellsite and the actions that will take place.

C. To outline the handling of inquiries from the news media and public relations.

II. SCOPE OF PLAN

This plan applies to all operations on this wildcat. These procedures shall be rigidly followed by all personnel (including contract personnel and visitors).

During drilling operations, it is the Exxon Drilling Superintendent's responsibility to see that these procedures are observed.

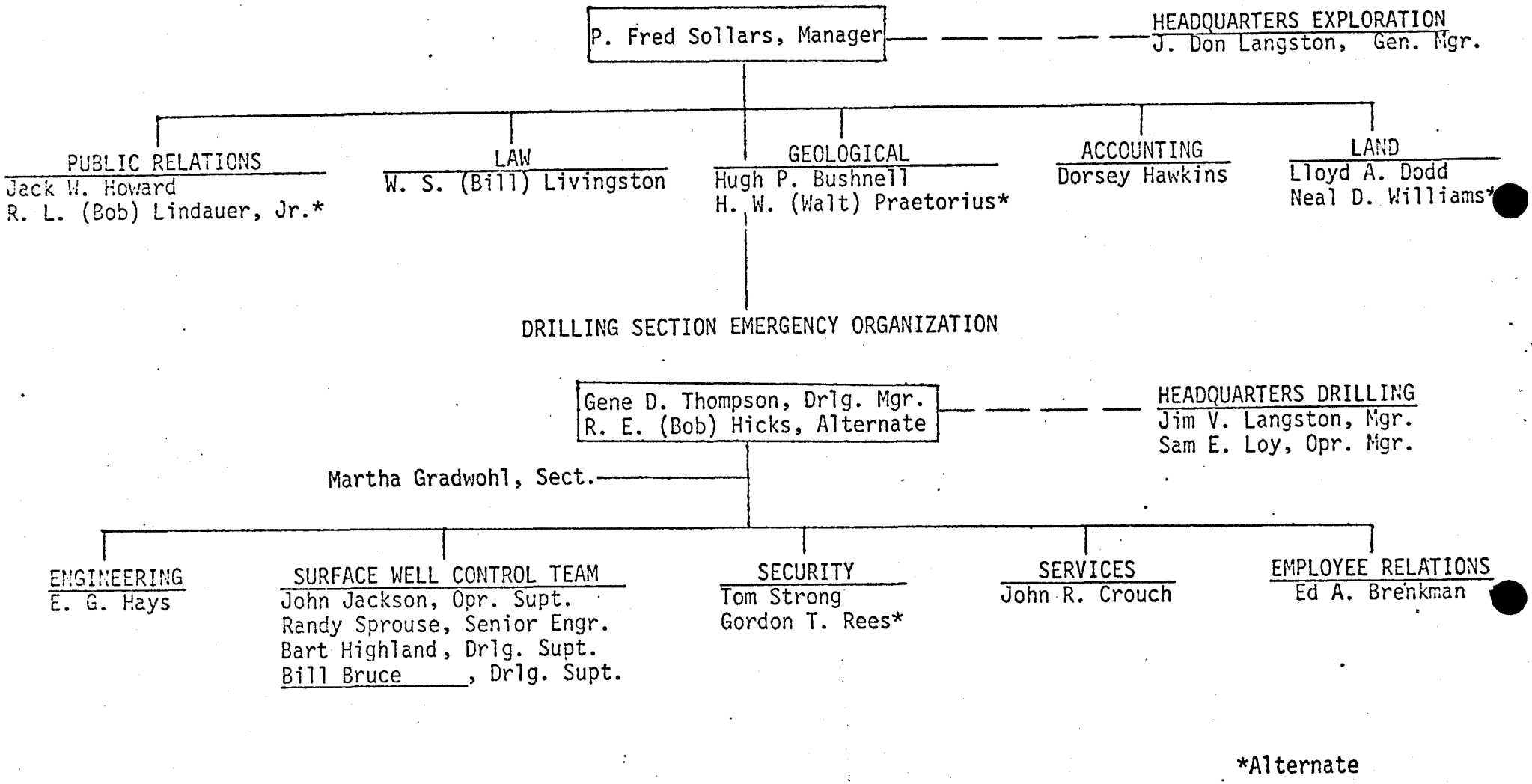
These rules shall be considered as minimum requirements. They are not intended to supplant the exercise of common sense and judgment by supervisors and operating personnel when under emergency conditions. However, they are to be followed as minimum requirements unless and until departure is authorized by supervisory authority.

III. DIVISION CATASTROPHE ORGANIZATION

The Division Catastrophe Organization is a staff of Division personnel specifically designated to cope with an emergency such as an out-of-control drilling well. The next page outlines the Western Exploration Division Catastrophe Organization for Rocky Mountain Area wells.

The Manager of the Catastrophe Organization will be the Division Manager with the Drilling Manager being responsible for the drilling function. The Drilling Manager will normally be completely removed from other Division responsibilities while the Catastrophe Organization is mobilized. One of his primary functions will be to advise Exploration Management as to the catastrophe status and to brief them on procedures that will be implemented. After the Catastrophe Organization is activated, each member of the staff is removed from his regular duties and devotes full time and effort to the emergency, when required. The staff representative for each function may be the particular manager or may be his delegated representative(s).

WESTERN EXPLORATION CATASTROPHE ORGANIZATION



DRILLING SECTION EMERGENCY ORGANIZATION

*Alternate

EGH:al
8-7-74

The Drilling Section is responsible for performing the Well Control function in the overall Division Catastrophe Organization. This includes all surface well control procedures as well as plans for relief well drilling. To meet its well control responsibilities, the Drilling Section is organized into task groups, Surface Well Control and Relief Wells, under the supervision of the Division Drilling Manager, with efforts of both groups supplemented with Services and Support Personnel. This organization will be staffed by Headquarters and other Division Drilling Organizations, based on the emergency.

The Surface Well Control Group is responsible for all emergency procedures performed on an out-of-control well in an emergency or catastrophe situation. This group is organized into experienced teams consisting of an Operations Superintendent, two Drilling Superintendents, and a Drilling Engineer. Backing up the primary team are similarly staffed relief teams.

The Relief Well Group will be a similar team of experienced Drilling Section personnel. This group will be responsible for the operational planning and implementation of relief wells drilled to control an emergency or disaster situation. Members of this team will be designated by Mr. J. V. Langston and Mr. Gene D. Thompson after the disaster has occurred and a decision is made by Management that relief wells may or will be required.

IV. DRILLING OPERATIONS - LOCATION SURVEILLANCE AND SAFETY EQUIPMENT

A. The drilling rig is to be situated on location so that the prevailing winds blow across the rig and toward the reserve pit, or cross-wind blows across both.

B. The location will be of sufficient size to accomplish each job safely, i.e., large reserve pit, ample pipe rack and turn-around, etc.

C. Chemical type fire extinguishers are maintained and located at strategic positions on the drilling site.

D. A list of the current emergency telephone numbers and a map of the local area with all residential areas clearly marked will be maintained by the Drilling Superintendent.

E. The mud tanks are to be far enough away from the rig floor to minimize the danger from any gas breaking out of the mud.

F. An adequate mud storage area with sufficient stock will be maintained consistent with well conditions.

G. The rig electric power plant will be separate from the rig structure so that it may be used under conditions where it otherwise would be shut down (e.g., combustible gases present).

H. The site is equipped with a commercial 2-way radio, and the Company car of each of Exxon's Drilling Superintendents is equipped with commercial mobile telephone. Additional 2-way channels of communication may be available when certain service-contract organizations are on-location.

V. EMERGENCY RESPONSIBILITIES AND ACTIONS AT WELL SITE

A. Well Kick

(1) Exxon Drilling Superintendent

The Drilling Superintendent will assess all potentially dangerous situations, notify his Division Drilling Manager or other Division Drilling personnel, and assign duties to various persons to bring the situation under control. Specifically, the Drilling Superintendent will take the following actions:

a. Order non-essential personnel out of the potential danger area.

b. Notify the Drilling Manager of condition and action taken.

(2) Driller - secure rig

a. Stop operations of rig and pick pipe up to get kelly out of BOP's.

b. Close blowout preventers, if necessary (Do not close blind rams on DP).

(3) Division Office's Responsibilities and Actions

a. The Drilling Manager (or other Drilling Section representative) receiving the emergency call will immediately advise the Division Exploration Manager of the emergency.

b. The Division Exploration Manager will advise the Division Catastrophe Staff to go on alert, if conditions warrant immediate action.

c. The Drilling Manager will activate the Drilling Section Emergency Organization.

d. The Drilling Manager will alert other Exxon Drilling Organizations at Headquarters.

e. The Primary Surface Well Control Team will immediately finalize plans, gather necessary equipment, etc., and depart for the well when directed to do so.

B. Uncontrolled Flow
Drilling Superintendent Responsibilities and Actions at Well Site

(1) Combat the uncontrolled flow with all means at his disposal.

(2) Work with civil authorities to minimize risk.

(3) Ignite the flow if deemed necessary

(4) Notify Exxon Management. Call each in the priority order listed below until one supervisor has been contacted (Emergency numbers in Appendix A):

1. Gene D. Thompson
2. John Jackson
3. Ed G. Hays
4. P. F. Sollars
5. Randy Sprouse
6. W. A. Grieves

C. Division Office's Responsibilities and Actions

After receiving notification from the Exxon Supervisor at location or nearby, the following actions will take place:

(1) The Division Exploration Manager will be advised immediately of the emergency by the supervisor receiving the call.

(2) The Division Drilling Manager will advise the Headquarters Drilling Manager of the emergency.

(3) The Division Exploration Manager will advise upper Exploration Management of the emergency.

(4) The Division Exploration Manager will contact the Catastrophe Organization Staff and will assemble the Staff immediately.

(5) The Drilling Manager will organize and activate the Drilling Section Emergency Organization.

(6) The Primary Surface Well Control Team will finalize plans, gather necessary equipment, etc., and depart for the well when directed by the Drilling Manager.

(7) The Division Catastrophe Staff will meet with the Division Exploration Manager and make initial plans to deal with the emergency. As required, members of the Staff will go or send a representative to the Myton or location area to solve problems under their Company function.

(8) The Drilling Manager will direct the establishment of a central communications center at Myton or location which will maintain contact with the emergency and with all civil authorities to serve as a clearing house for the orderly flow of information and direction of effort.

(9) As conditions deem necessary, planning will be initiated on a relief well. The Division Drilling Manager and Division Supervising Engineer will name a Relief Well Team consisting of an Operations Superintendent, two or more Drilling Superintendents, and one or more engineers which will be supplied by Headquarters and other Division Drilling Organizations.

D. Public Relations

The importance of prompt communication with news media in the event of serious emergency cannot be overemphasized. The prompt reporting of factual data to the news media is necessary to avoid the broadcast of distorted or speculative accounts of the incident which could irreparably damage the public image of the Company. The initial and subsequent reports made by the Company's Public Relations personnel to news media will be formulated within the framework of the following guidelines:

(1) The report should contain no speculation.

(2) Existing restrictions on release of competitive or confidential information are not to be compromised.

(3) The names of severely or fatally injured personnel should not be released until proper notification of their next of kin.

(4) Reference to the extent of monetary loss should be avoided.

With the above guidelines in mind, the report to news media should contain the following factual information which the Public Relations personnel may request from the Drilling Section:

(1) The nature of the emergency and where it occurred.

(2) The number of people injured or killed and the nature of their injuries.

(3) The steps being taken to care for injured personnel.

(4) The nature and extent of property damage but not monetary loss.

(5) A statement of preliminary action being taken to correct the emergency.

(6) To the extent that it applies, reference should also be made to plans and efforts being made to safeguard local residents and to protect rivers, streams and other property.

VI. IGNITING THE WELL

A. Responsibility

The decision to ignite the well is the responsibility of the Exxon Drilling Superintendent. However, the decision should be made only as a last resort and in a situation where it is clear that:

(1) Human life and property are endangered.

(2) There is no hope of controlling the blowout under the prevailing conditions at the well.

In all cases, an attempt should be made to notify the Division Office of plans to ignite the well, if time permits. However, the Drilling Superintendent must not delay his decision if human life is threatened.

B. Methods of Ignition

(1) In preparation for igniting the well, keep all unnecessary persons away. Two people are required for the actual ignition and will have 250-foot retrieval ropes attached to each harness. One man is responsible for checking the atmosphere for explosive gases with

explosimeter. The other man is responsible for igniting the well. Persons remaining will closely watch the ignition team; and should either man be overcome by fumes, they will immediately pull him to safety by the retrieval ropes attached to the harness worn by each.

(2) The primary method for igniting the well will be with a 25 MM meteor-type flare gun. These guns have a range of approximately 500 feet. If this method fails or well conditions are such that a safer or better method is apparent, then the alternate method should be used.

(3) Always ignite the well from upwind and do not approach well any closer than warranted.

(4) Select a location to fire the flare gun which provides maximum protection to the ignition team.

(5) Choose a location that has good accessibility and from which retreat can easily be made.

(6) Remember, before firing flare gun or igniting flammable material, check the atmosphere at your location for combustible gases with explosimeter.

Surface Location

Exxon's representatives measured the present location and surrounding disturbed area on September 4, 1974, as indicated by the attached plat. Mr. Bart Bennion and Mr. Jim Robins of the BLM, Vernal, Utah office inspected the location with Exxon's representatives. Mr. Ed Hays and Mr. Wendell Westerfeld visited Mr. Marty Lampman, BLM Area Manager at Vernal, and presented Exxon's rehabilitation proposal for the disturbed area around the location which will be seeded this fall. Mr. Lampman concurred with the plan and will be advised prior to commencing actual work.

Mr. Lampman was also advised of Exxon's plans to immediately install erosion control measures at two agreed places where the sand and gravel materials were taken along the existing road to the location. We understand that Mr. Marty Lampman desires Exxon to notify and work with Mr. Bart Bennion on this phase of rehabilitation.

Gas Line Right-of-Way

After an extended test period, Exxon will need to lay a gas sales line to Mountain Fuel's existing gas line south in Section 32. A right-of-way will be flagged for the BLM's inspection prior to final survey for the application.

Original - Mr. E. W. Gwynn, U.S.G.S., Salt Lake City
cc: Mr. Marty Lampman, BLM, Vernal
Utah Division of Oil & Gas Conservation
Mr. S. E. Loy
Mr. D. Hawkins
Mr. B. J. Bruce/W. B. Highland

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Wilkin Ridge Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 19 74, Exxon #1 Wilkin Ridge Unit (Wildcat)

Agent's address P. O. Box 120 *Company* Exxon Corporation
Denver, Colorado 80201 *Signed*
Phone 303-761-6470 *Agent's title*

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1	Wilkin Ridge Unit						8/22/74 Set 13-3/8" conductor @ 64' KB w/rathole machine & cmt. to surface. 8/23-8/31/74 Move in & Rig Up. Brinkerhoff #26. Rig up Hydril & Diverter on 13-3/8". 9/1/74 Spud @ 7:45 p.m. 9/13/74 Drilled to 3023. Ran DIL & FDC logs. Set 8-5/8" surface csg. @ 3015' KB. Cmt. to surface w/ 1000 Sks Cl.G+8% Gel 150 Sks Cl.G neat 300 Sks Cl.G+8%Gel+2% $CaCl_2$ 250 Sks Cl.G+2%$CaCl_2$ 9/20/74 Test BOP's 300 & 3000 psi Test casing 1500 psi 9/30/74 Drlg. @ 6025'. 6:00 a.m

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;
No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-9 U. S. GOVERNMENT PRINTING OFFICE

GPO 837-082

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DIVISION MANAGER

October 4, 1974

U. S. Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached are three copies of Lessee's Monthly Report of Operations on Wells for Exxon #1 Wilkin Ridge Unit for the month of September, 1974.

Yours very truly,

Gene D. Thompson

RS:sjg
Attachments

cc: Dorsey Hawkins
Pacific Transmission Supply
Chorney Oil Company
Gulf Oil Corporation
Placid Oil Company
Skyline Oil Company
Mr. Gilman A. Hill
Utah Division of Oil & Gas Conservation

UINTA BASIN WASATCH - MESAVERDE GAS TEST

9-MILE CANYON PROSPECT

GENERAL

Drilling Depth: 11,500'

Wasatch Section: 5000' - 8000'

Mesaverde Section: 8000' - 11,500'

Anticipated Net Pay: Wasatch - 200'- 250'
Mesaverde - 400' -500'

Anticipated Porosity: 8% - 12%

Anticipated Water Saturation: 45% - 55%

Anticipated Air Permeability: Wasatch - .8 md - 1.5 md
Mesaverde - .08 md - .12 md

Anticipated In-Situ Permeability: Wasatch .04 md - .07 md
Mesaverde - .004 md - .006 md

Anticipated Pressure Gradient: .4 - .45 psi-ft.

Anticipated Temperature Gradient: 60°F. + 1.45°F./100'

TEST OBJECTIVE

Determine sustained gas production capability of Wasatch and Mesaverde following massive hydraulic fracturing (effective propped fracture wing length of 500').

DRILLING PROCEDURE

Drill a 7-7/8" hole to TD with a good quality chemical mud. Several cores will be cut in the Wasatch and Mesaverde. In addition, selected intervals will be drill stem tested.

CORING PROGRAM

Three or four 60-foot cores will be cut in the Wasatch and Mesaverde sections.

Anticipated core intervals are:

1. Lower Wasatch Sands: 7700' - 7800'
2. Upper Mesaverde Sands: 8200' - 8400'
3. Middle Mesaverde Sands: 9500' - 9700'
4. Lower Mesaverde Sands: 10,500' - 10,800'

Data sought from core analyses are:

1. Porosities, air permeabilities, and fluid saturations.
2. Drainage test measurements of water saturation.
3. Rock measurements to assist in log analysis of water saturation.

It is anticipated that fracture design work will be done on selected cores with emphasis on clay damage and fluid cleanup. In addition, several cores may be analyzed for permeability measurements under water saturation and confining pressure conditions expected in the reservoir.

DRILL STEM TESTING

The principal objective of drill stem tests in the Wasatch and Mesaverde sections will be to determine in-situ permeability and original formation pressure. Four to six drill stem tests are planned. Cored intervals should be tested if possible.

Recommended drill stem procedures are:

Water cushion:	none or up to 500 feet
Initial flowing period:	15 minutes
Initial shut-in period:	1 hour
Final flowing period:	If production is obtained, flow for two hours. Terminate the test if prodiction is not obtained.
Final shut-in period:	Four hours following production tests. No final shut-in period in tests without production.

LOGGING PROGRAM

IES

Neutron-Density

Gamma Ray - Sonic w/Caliper

Bottom hole temperature should be measured on each logging run.

CASING PROGRAM

Surface/intermediate casing as required

5½" casing to TD

2-7/8" tubing

CASING PROGRAM (cont)

The 5½" casing should be designed to permit pumping down the tubing-casing annulus during fracturing. Surface pressures during fracturing will be 6000-7500 psi.

COMPLETION PROCEDURE

The objective of the completion procedure is to stimulate 600 to 700 feet of sand in 25 to 30 separate zones. EPRCo's Polymulsion fracturing fluid (2/3 condensate and 1/3 brine) is the probable fluid selection. Total fluid requirement for fracturing will be 12,000 to 18,000 barrels (600 barrels/zone). Logistics of handling this amount of fluid and potential advantages of stage fracturing 10± intervals instead of 25 to 30 indicate that three jobs should be done in lieu of one very large job. With the Polymulsion fluid, this procedure will minimize the amount of condensate required by permitting reuse in subsequent jobs.

Anticipated depth intervals for the three jobs, are 5000' to 8000' (Wasatch), 8000' to 9500' (Mesaverde) and 9500' to 11,500' (Mesaverde). In each job, there will be 10± zones with each zone representing a stage in the fracture treatment. Net sand per zone will be 25 to 30 feet with some zones having as much as 50 to 70 feet of net sand. A base temperature survey should be run across the Wasatch and Mesaverde sections before perforating any zone; it will be used in determining the effectiveness of the multistage fracturing treatments.

The general procedure for each job is detailed below.

1. Perforate each zone with an equal number of perforations, such as 20.

2. Stage fracture using ball sealers between each stage to selectively fracture each completion zone. Fracture design should be for an effective fracture wing length of 750' to 1000'.

3. Run temperature surveys at ½ hour, 1 hour, and 2 hour intervals following fracturing to evaluate stimulated intervals.

4. Flow well back following the 2 hour temperature survey for cleanup.

5. Following cleanup, produce at the maximum sustained rates for 15 to 20 days, maintaining a constant surface flowing pressure if possible. A 3-phase separator should be available for condensate recovery.

POST TREATMENT TESTING

An extended production test (6 months to one year) will be required to determine the effectiveness of the fracturing program. Facilities should be available for continuous metering of gas production.

After extended production tests of 5 to 6 months, decision will be made as to the advisability to continue producing or perforate and fracture the remaining gas bearing zones.

EES/GDT:mg
4-8-74

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

October 9, 1974

United States Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Utah Division of Oil & Gas Conservation
1588 West, North Temple
Salt Lake City, Utah 84116

Gentlemen:

Re: Exxon #1 Wilkin Ridge Unit
Duchesne County, Utah
API No. 43-013-30327

Please be advised that Exxon will drill the above-referenced well as a tight hole wildcat.

Accordingly, future submittals of geological and operational data will be marked confidential by Exxon.

Please keep confidential all such data for a period of three (3) months after date due, as covered by Commission Rule C-5.

We inadvertently failed to mark the Lessee's Monthly Report of Operations for the month of September, 1974, confidential, and would appreciate your handling this for us so that this material will not be released at this time.

Very truly yours,

John R. Sprouse for
Gene D. Thompson

RS:sjg

cc: Mr. Dorsey Hawkins

CONFIDENTIAL

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of ....., *19*....., Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation
Denver, Colorado 80201 *Signed* John G. Sprouse

Phone (303) 761-6470 *Agent's title* Supervising Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
7/1/75-7/30/75: Well Shut In. Fifth subsurface pressure measurement, since shut-in March 1, 1975, was made on April 16, 1975. No measurements in May, June or July 1975.										
			1	0	-	-	-	-	-	Shut In all month.
TOTALS				0	-		-	-	-	

GAS: (MCF)
Sold 0
Vented/Flared 0
Used on Lease 0
Lost 0
Reason -

OIL or CONDENSATE: (Barrels)
Sold 0
Used 0
Unavoidably Lost 0
Reason -

WATER: (Barrels)
Disposition -
Pit 0
Injected 0
Other 0

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Wilkin Ridge Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1974, Exxon #1 Wilkin Ridge Unit (Wildcat)

Agent's address P. O. Box 120 *Company* Exxon Corporation
Denver, Colorado 80201 *Signed* W. H. Grier
Phone 303-761-6470 *Agent's title* Acting Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
			10/1/74-10/31/74 Drilling 6025' to 10,740' (6:00 a.m. report).							
			10/11/74, 10/19/74, 10/28/74 BOP Tests: Rams and choke manifold tested to 300 psi and 3000 psi. Hydril tested to 300 psi and 2000 psi.							
			10/26/74 Cut Core #1 from 10,273' to 10,312' (39' cut, 37' recovered).							
			10/27/74 DST #1 from 10,259' to 10,312'. Strong blow, no gas to surface, recovered 90' of gas cut mud. IHP 4971 psi, 5 min. IFP 143-112 psi, 30 min. ISIP 275 psi, 120 min. FFP 138-143 psi, 60 min. FSIP 244 psi, FHP 4951 psi. Sample Chamber contained 1400 cc's mud, pressure too small to measure.					

CONFIDENTIAL

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-9 U. S. GOVERNMENT PRINTING OFFICE

GPO 837-082

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

November 1, 1974

United States Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached are three copies of Lessee's Monthly Report of Operations on Wells for Exxon #1 Wilkin Ridge Unit for the month of October, 1974.

Yours very truly,

Original Signed GENE D. THOMPSON

Gene D. Thompson

RS:sjg

Attachments

cc: Dorsey Hawkins
Pacific Transmission Supply
Chorney Oil Company
Gulf Oil Corporation
Placid Oil Company
Skyline Oil Company
Mr. Gilman A. Hill
Utah Division of Oil & Gas Conservation

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980' FNL, 2055'FWL

5. LEASE DESIGNATION AND SERIAL NO.
Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Wilkin Ridge Unit

8. FARM OR LEASE NAME

9. WELL NO.
Exxon #1 Wilkin Ridge Unit

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29-T10S-R17E SLM

14. PERMIT NO.
API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6192 ROB

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	X	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

With this notice we request your permission to increase the permit depth on this well to 12,500' or 200'± into the Mancos Shale, whichever occurs first. This request does not constitute a change of objective formation.

Mr. E. W. Guynn, Acting District Engineer, USGS, Salt Lake City, gave verbal approval for this November 22, 1974.

CONFIDENTIAL

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Senior Engineer DATE November 25, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Wilkin Ridge Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, *19* 74, Exxon #1 Wilkin Ridge Unit (Wildcat)

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* [signature]

Phone (303) 761-6470 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth: if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
			11/1/74-11/30/74 Drilling 10740' to 12390' (6:00 a.m. report).							
			11/1/74-11/2/74 Core No. 2: 10740'-10797'. Cut 57', recovered 51'.							
			11/6/74-11/7/74 Core No. 3: 11185'-11234'. Cut 49', recovered 45'.							
			11/10/74-11/11/74 Ran DIL, Sonic-GR, and Dipmeter logs from 11509' to 3015'. Ran Density-CNL from 11509' to 4500'.							
			11/19/74 Test choke manifold and rams to 300 psi and 3000 psi, O.K. Test Hydril to 300 psi and 2000 psi, O.K.							

CONFIDENTIAL

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

FORM 9-329
(January 1950)

GPO 837-082

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

December 3, 1974

United States Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached are three copies of Lessee's Monthly Report of Operations on Wells for Exxon #1 Wilkin Ridge Unit for the month of November, 1974.

Yours very truly,

Gene D. Thompson

RS:sjg

Attachments

cc: Dorsey Hawkins
Pacific Transmission Supply
Chorney Oil Company
Gulf Oil Corporation
Placid Oil Company
Skyline Oil Company
Mr. Gilman A. Hill
Utah Division of Oil & Gas Conservation

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. BOX 2794
CASPER, WYOMING 82601

GAS ANALYSIS REPORT

COMPANY: Exxon Co., U.S.A.
WELL NO.: Unit #N-1
FIELD: Wilkins Ridge
COUNTY:
STATE:
LINE PRESSURE: - PSIG
TEMPERATURE: - DEGREES F

DATE: December 10, 1974 LAB. NO. 14495
LOCATION:
FORMATION:
DEPTH:
SAMPLING POINT:
SAMPLE PRESSURE: 0 PSIG
CONTAINER NO. theirs

Sample taken 11-15-74 @ 12:15a.m. (no other information given)

COMPONENT	MOLE % OR VOLUME %	GALLONS PER MCF
OXYGEN	0.00	
NITROGEN	5.03	
CARBON DIOXIDE	0.00	
HYDROGEN SULFIDE	0.00	
METHANE	78.48	
ETHANE	11.31	
PROPANE	3.14	0.861
ISO-BUTANE	0.70	0.228
N-BUTANE	0.55	0.174
ISO-PENTANE	0.24	0.088
N-PENTANE	0.13	0.047
HEXANES & HIGHER	0.42	0.193
TOTAL	100.00	1.591

GPM OF PENTANE & HIGHER FRACTION 0.328

GROSS BTU/CU FT @ 60F & 14.7 PSIA(DRY BASIS).. 1152.
SPECIFIC GRAVITY (CALCULATED FROM ANALYSIS)... 0.697
SPECIFIC GRAVITY (MEASURED)..... 0.695

EMARKS: ANALYSIS CORRECTED FOR 14.23 % AIR CONTAMINATION

SCHLUMBERGER WELL SERVICES
5000 GULF FREEWAY, P.O. BOX 2175
HOUSTON, TEXAS 77001, (713) 928-2511

PLEASE REPLY TO
1700 SECURITY LIFE BUILDING
1616 GLENARM PLACE
DENVER, COLORADO 80202

December 6, 1974

Exxon Company, USA
P. O. Box 120
Englewood, Colorado 80110

RE: Dipmeter Interpretation on Wilkin Ridge Unit #1
ATTN: Mr. Grieves

Dear Sir:

Enclosed is the interpretation of the structural computation (4'x2'x30°) and the stratigraphic interpretation (2'x1'x30°).

The structural computation indicates a structural dip of 1.5° downdip to the north (5° Azimuth) and shows several sands requiring stratigraphic interpretation.

The stratigraphic interpretation is based on the 2'x1'x30° computation without structure deleted. The following fourteen sands were investigated by this procedure:

The zone at 7260' to 7296' has an overall slope pattern with transport in the north direction. It appears to be either Valley fill or channel fill from the side. In both cases, the strike of the sand should be east-west. (See attachment 1)

The zone at 7831' to 7851' appears to have a possible NE-SW strike. (See attachment 2)

The zone at 8223' to 8256' has a slope pattern indicating a strike of NNW-SSE with possible transport to the NNE. (See attachment 3)

The zone at 10,326' to 10,360' exhibits a possible channel appearance with a strike of NNE-SSW and transport to the NNE. (See attachment 4)

The zone at 10,525' to 10,548' exhibits possible channel characteristics with a strike of NE-SW and with transport to the NW. (See attachment 5)

The zone at 10,600' to 10,610' has a good slope pattern indicating the strike to be NNW-SSE. (See attachment 6)

The zone at 10,656' to 10,714' does not have good dip data, but appears to have a possible east-west strike. (See attachment 7)

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

The zone at 10,724' to 10,790' also does not exhibit high quality dip data and could be a possible dune sand. It does have a slope pattern indicating the strike of the sand body is NNE-SSW. (See attachment 8)

The zone at 10,897' to 10,923' has a slope pattern above the zone indicating an east-west strike and a slope pattern within the sand body confirming this strike. (See attachment 9)

The zone at 10,952' to 10,998' exhibits a good transport pattern within the zone indicating deposition from the west to the east. The strike would also be along this direction. This zone is particularly important since the SARABAND analysis indicates possible hydrocarbons. (See attachment 10)

The zone at 11,012' to 11,045' has a good slope pattern showing an east-west strike. SARABAND also indicates possible hydrocarbons. (See attachment 11)

The zone at 11,066' to 11,909' has a good slope pattern also showing an east-west strike. (See attachment 12)

The zone at 11,137' to 11,153' has a transport pattern indicating a NNE-SSW strike. (See attachment 13)

The zone at 11,161' to 11,195' has a good transport to the south and a slope pattern also to the south. There is also a south drape pattern above the sand. These indicate an east-west strike. (See attachment 14)

The most interesting point of the dipmeter study is the sands in the lower section of the well that trend east-west appear to contain hydrocarbons and those trending north-south do not. The regional dip is downdip to the north and traps do not seem to be formed along this strike, possibly due to southern communication.

Exploration for the indicated hydrocarbon sands in the interval 10,900' to 11,200' should be favorable along the east-west strike.

This dipmeter information should be helpful in the development of this area. If there are any questions, please call us.

Sincerely yours,

SCHLUMBERGER WELL SERVICES

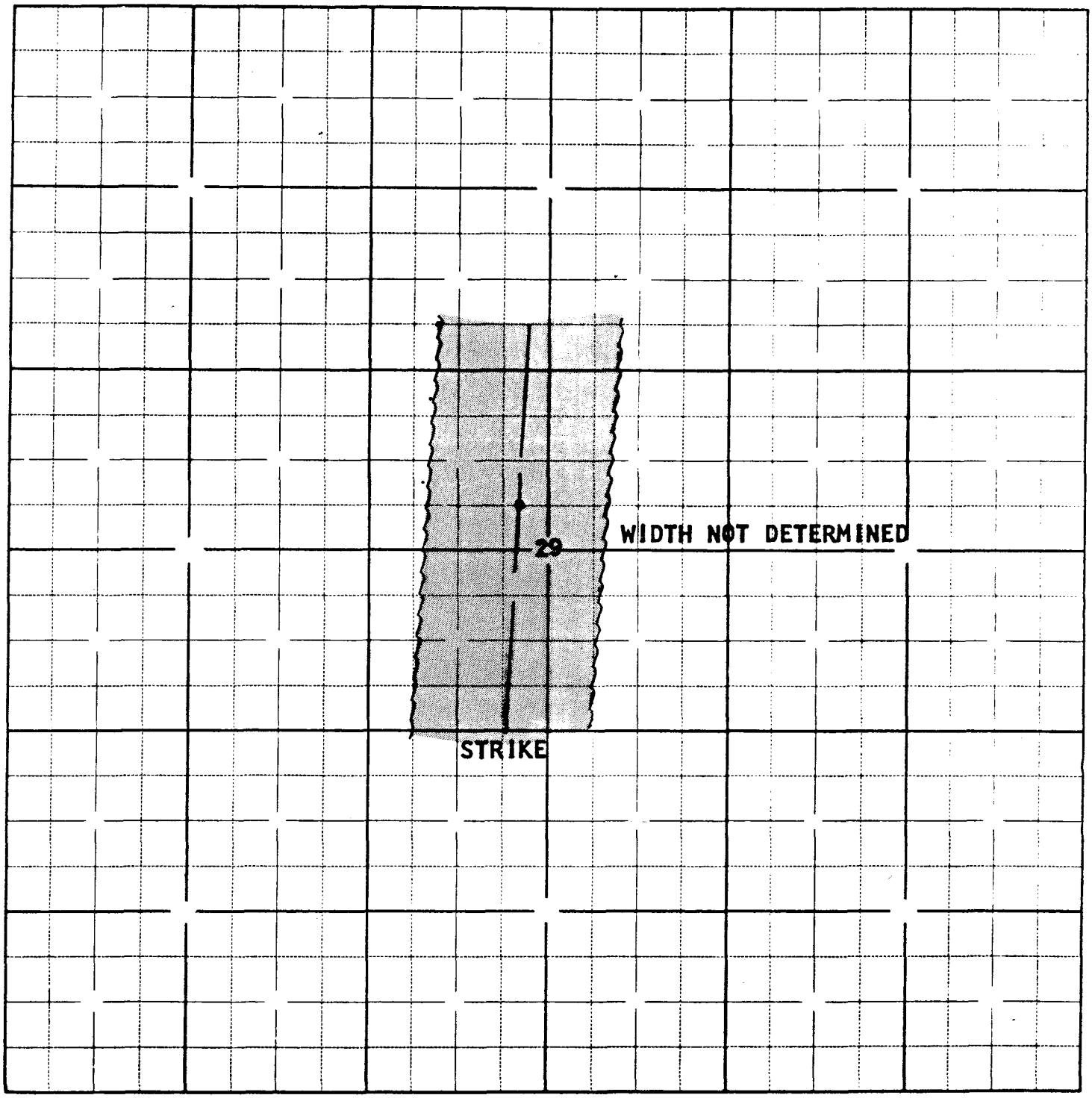
L. M. "Mike" Grace
Sales Engineer--Dipmeter

LMG:cm

ATTACHMENT 1

Township 10S, Range 17E, County DUCHESNE, State UTAH,

7260' - 7296'

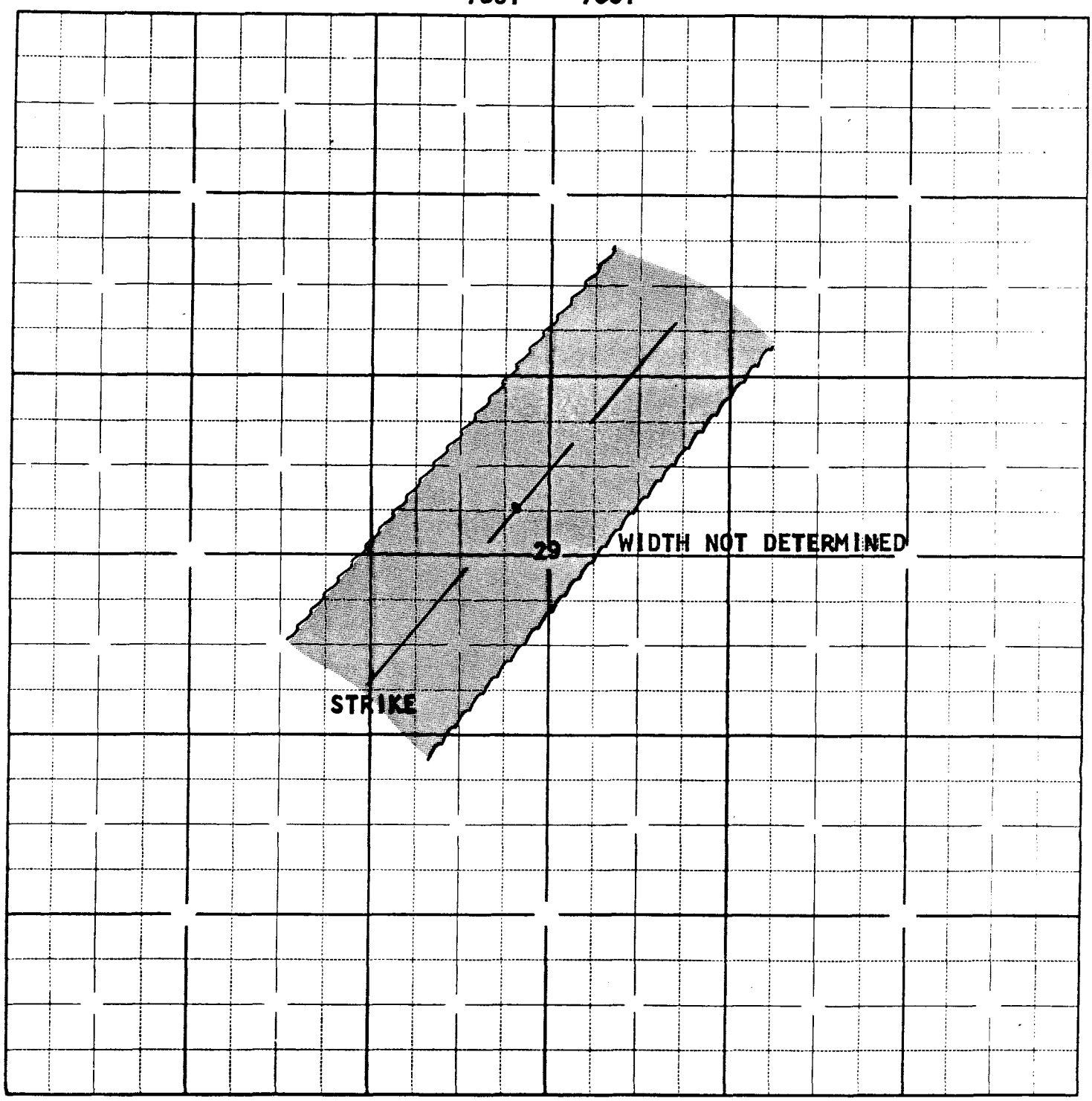


FORM 53

ATTACHMENT 2

Township 10S, Range 17E, County DUCHESNE, State UTAH,

7831' - 7851'

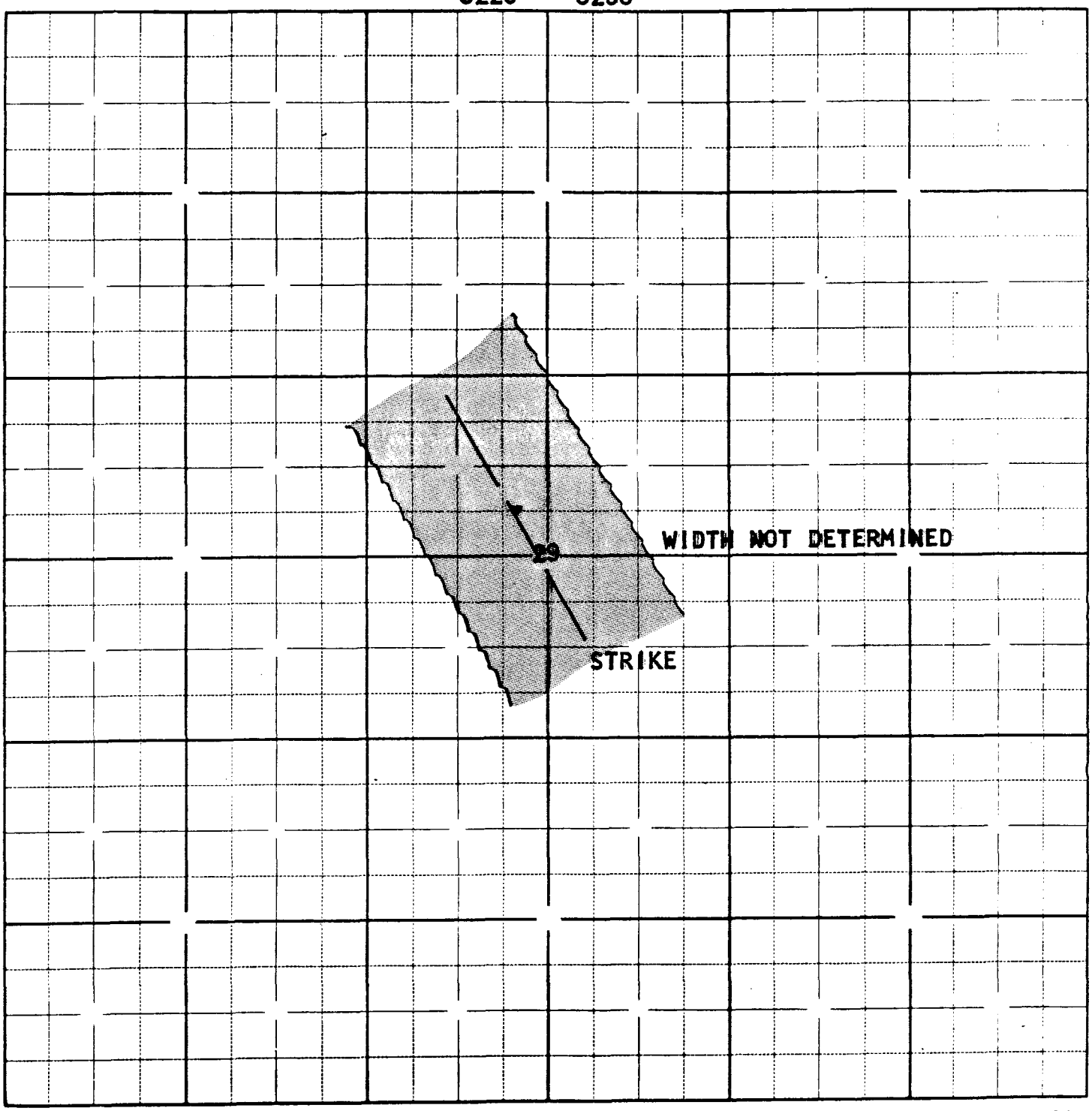


FORM 53

ATTACHMENT 3

Township 10S, Range 17E, County DUCHESNE, State UTAH,

8223' - 8256'

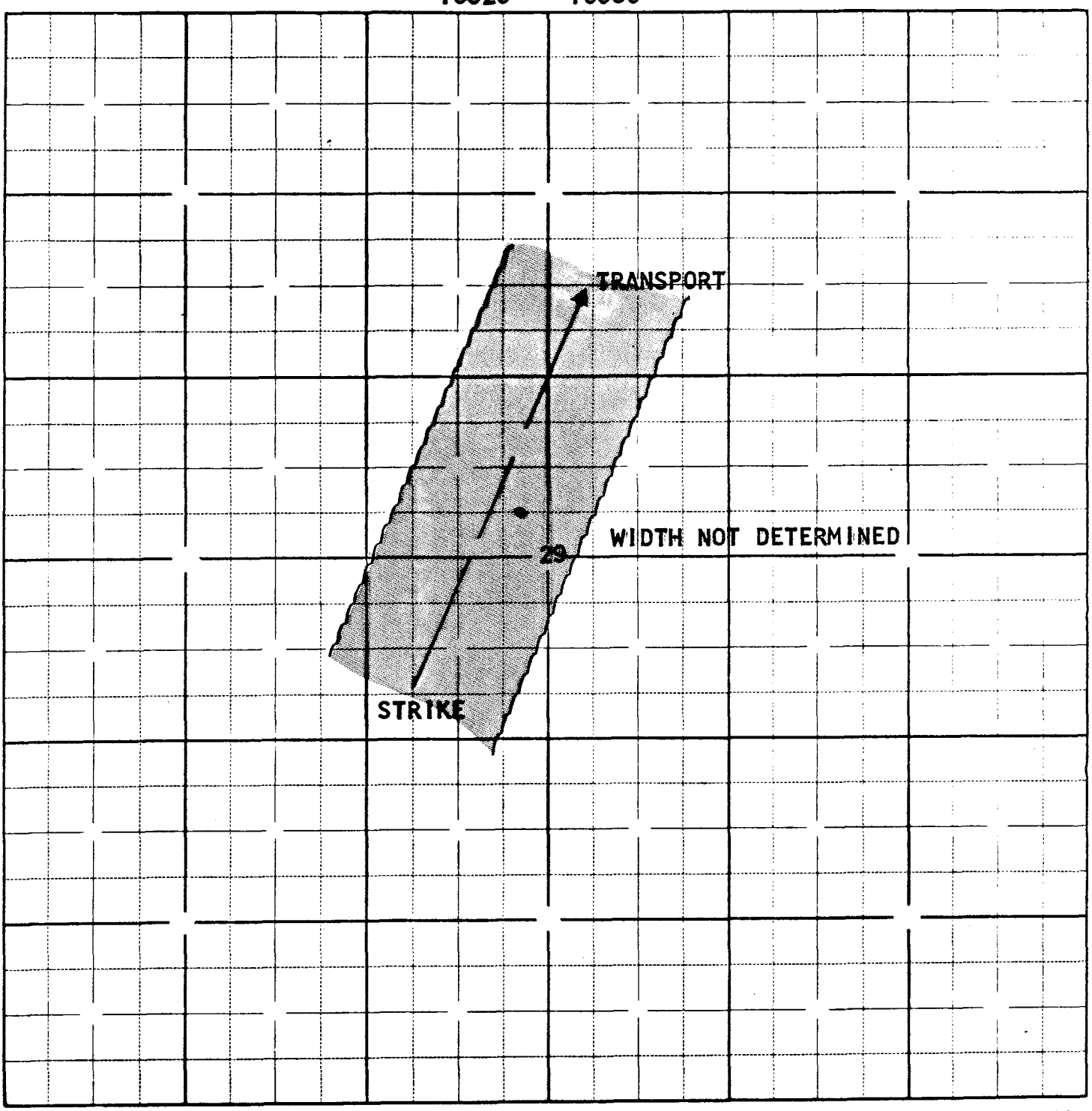


FORM 53

ATTACHMENT 4

Township 10S, Range 17E, County DUCHESNE, State UTAH,

10326' - 10360'

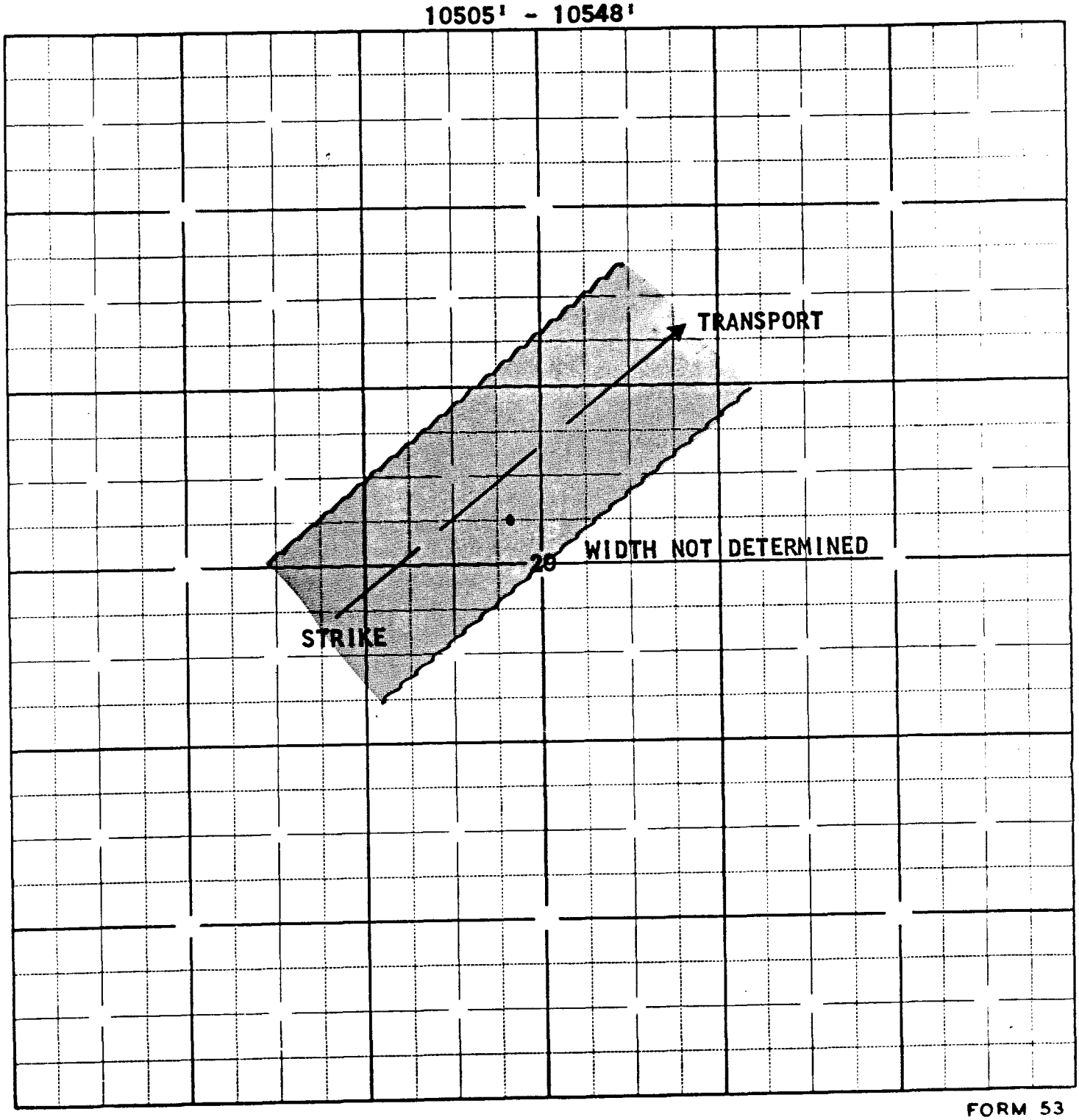


FORM 53

ATTACHMENT 5

Township 10S, Range 17E, County DUCHESNE, State UTAH,

10505' - 10548'

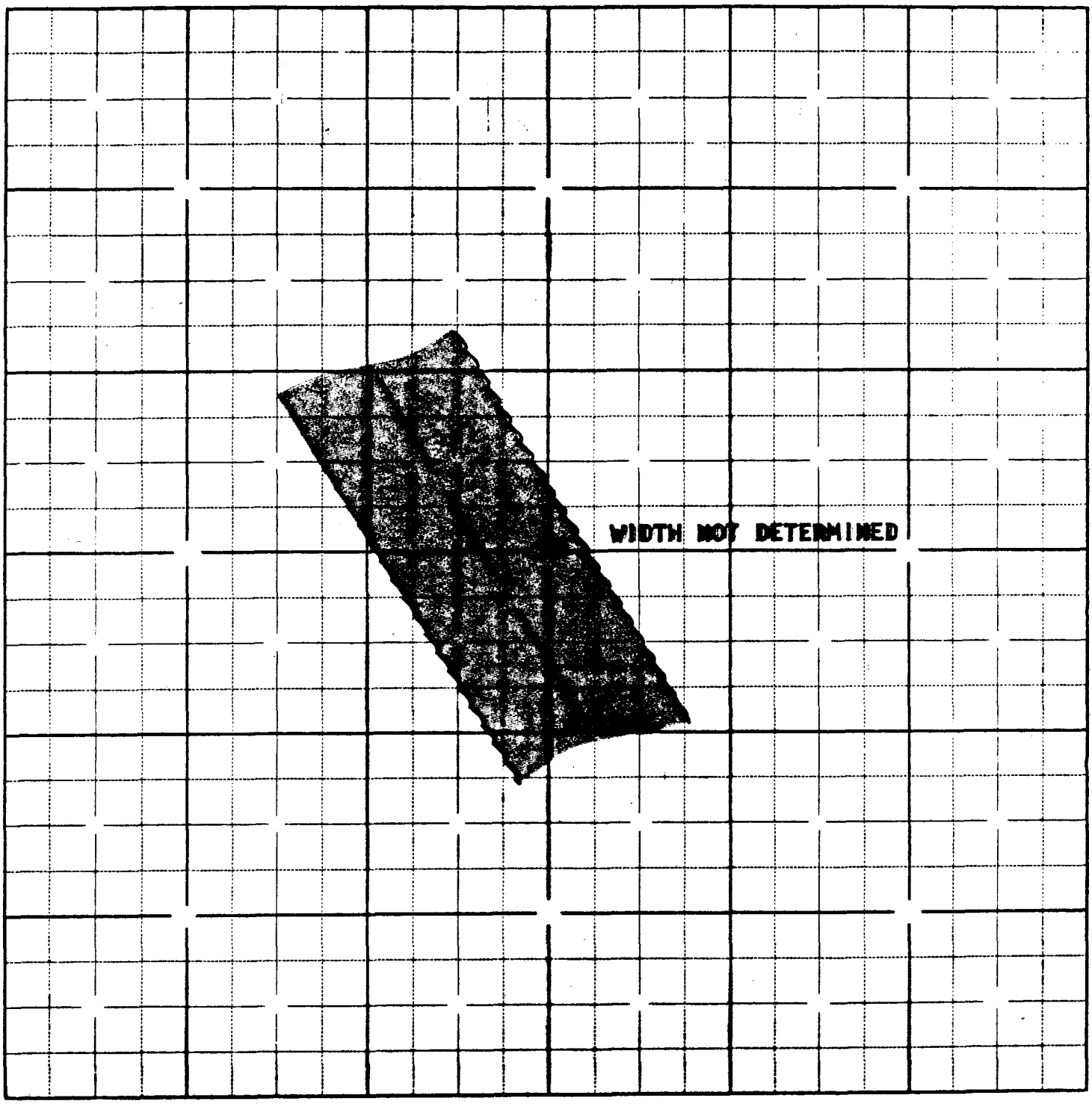


FORM 53

ATTACHMENT 6

Township 10S, Range 17E, County DUCHESNE, State UTAH,

10600' - 10610'

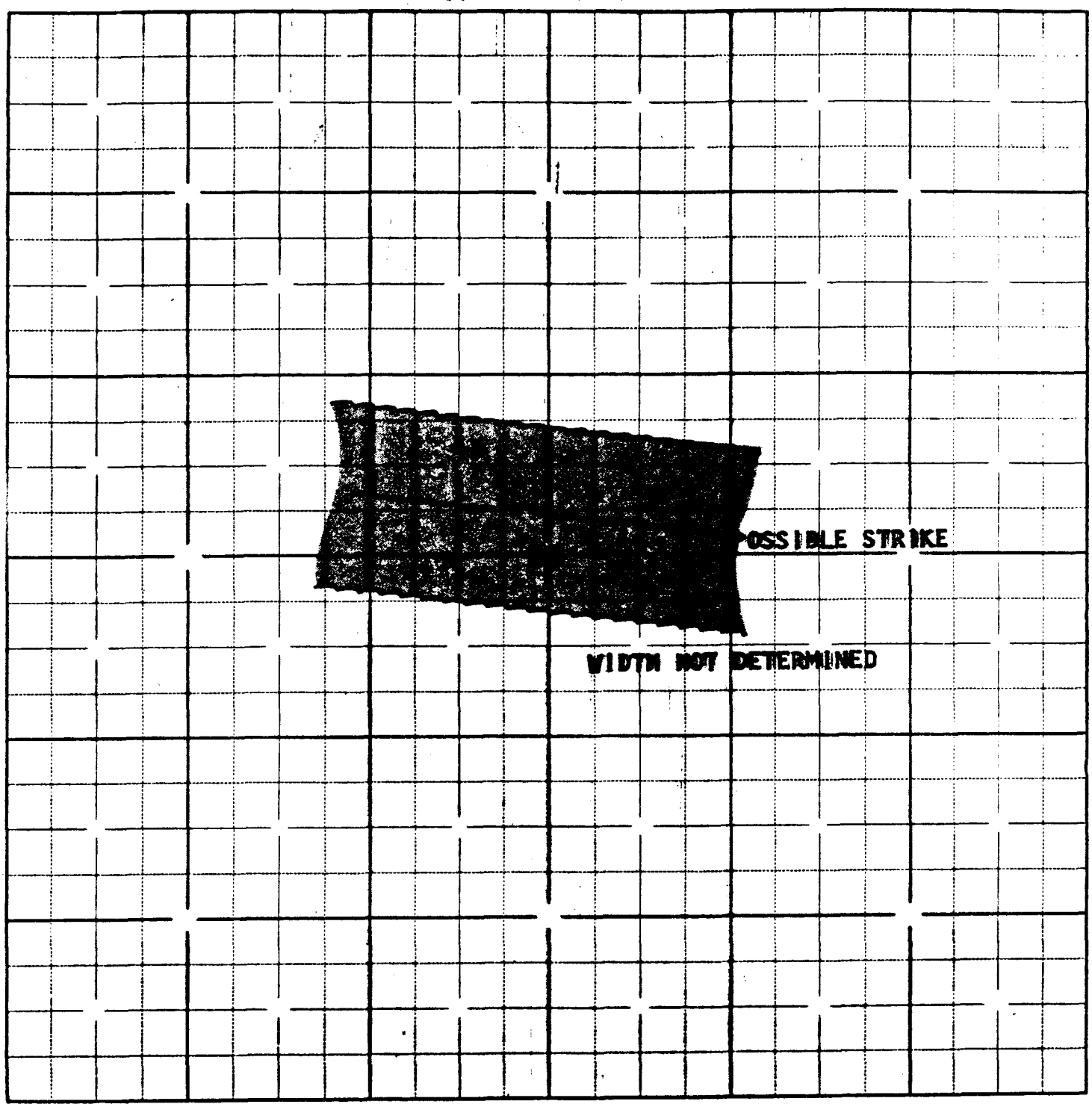


FORM 53

ATTACHMENT 7

Township 10S, Range 17E, County DUCHESNE, State UTAH,

10656' - 10714

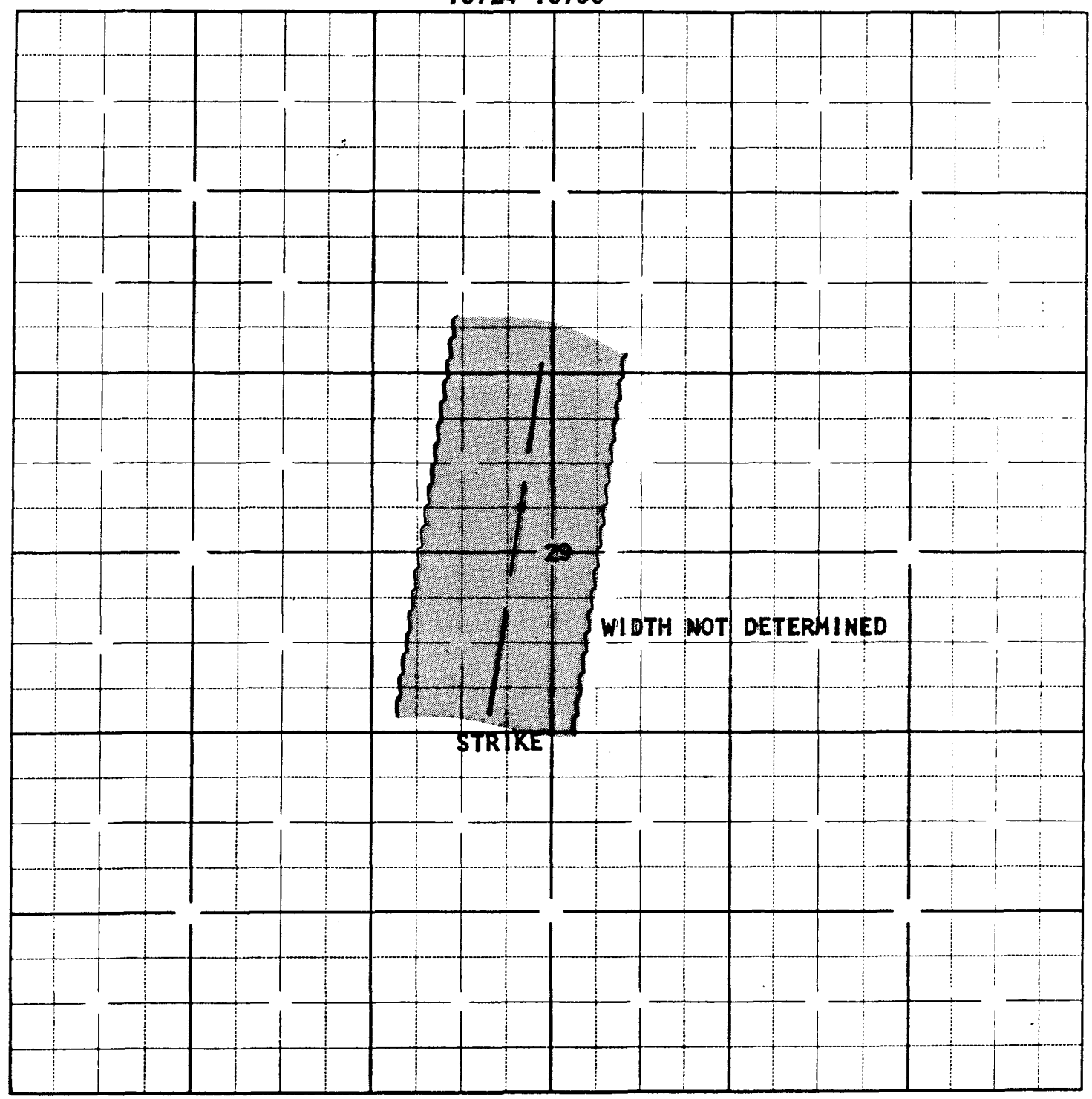


FORM 53

ATTACHMENT 8

Township 10S, Range 17E, County DUCHESNE, State UTAH,

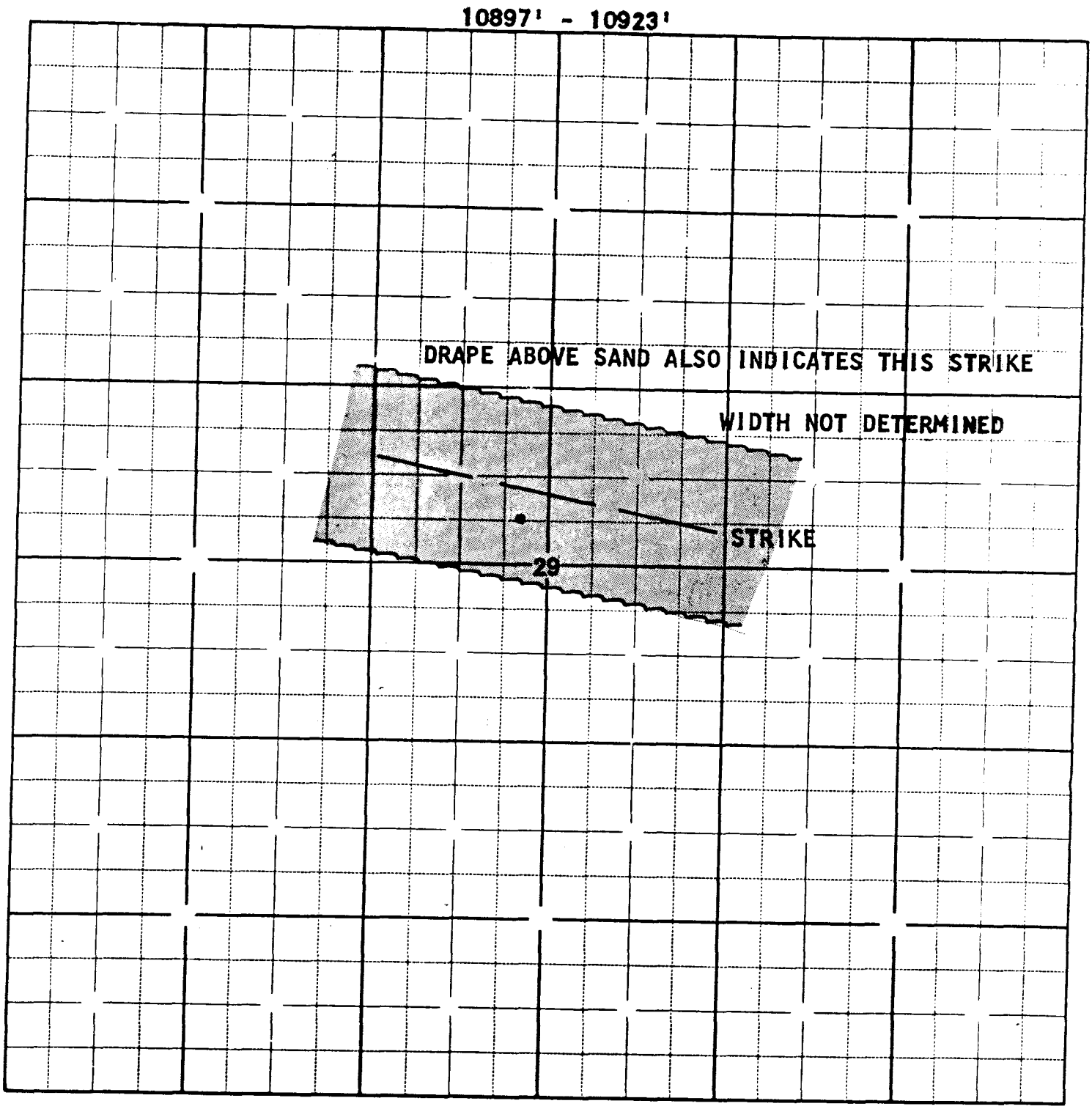
10724'-10790'



FORM 53

ATTACHMENT 9

Township 10S, Range 17E, County DUCHESNE, State UTAH,

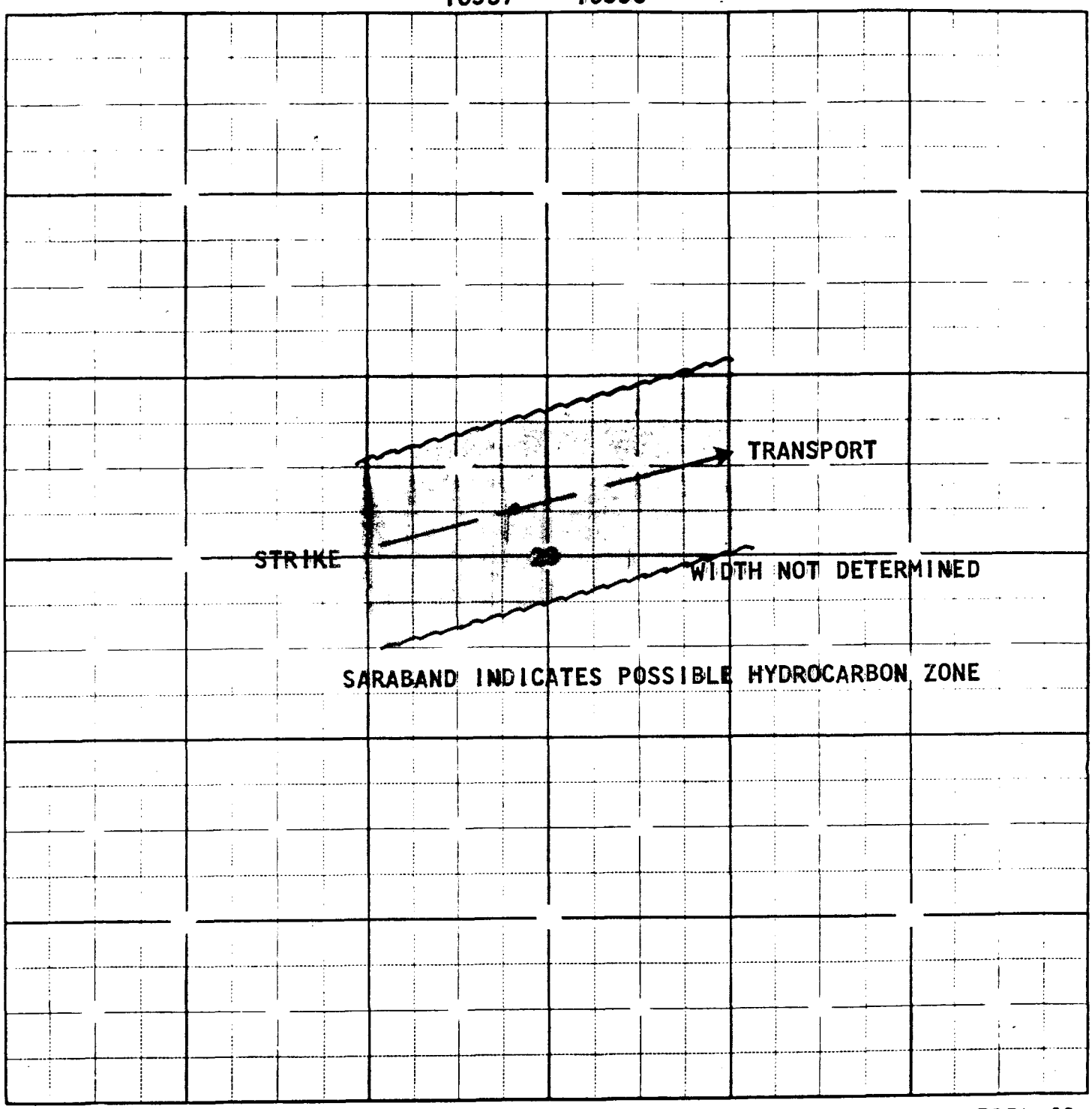


FORM 53

ATTACHMENT 10

Township 10S, Range 17E, County DUCHESNE, State UTAH,

10957' - 10998'



FORM 53

ATTACHMENT 11

Township 10S, Range 17E, County DUCHESNE, State UTAH,

11012' - 11045'

SOUTH NOT DETERMINED

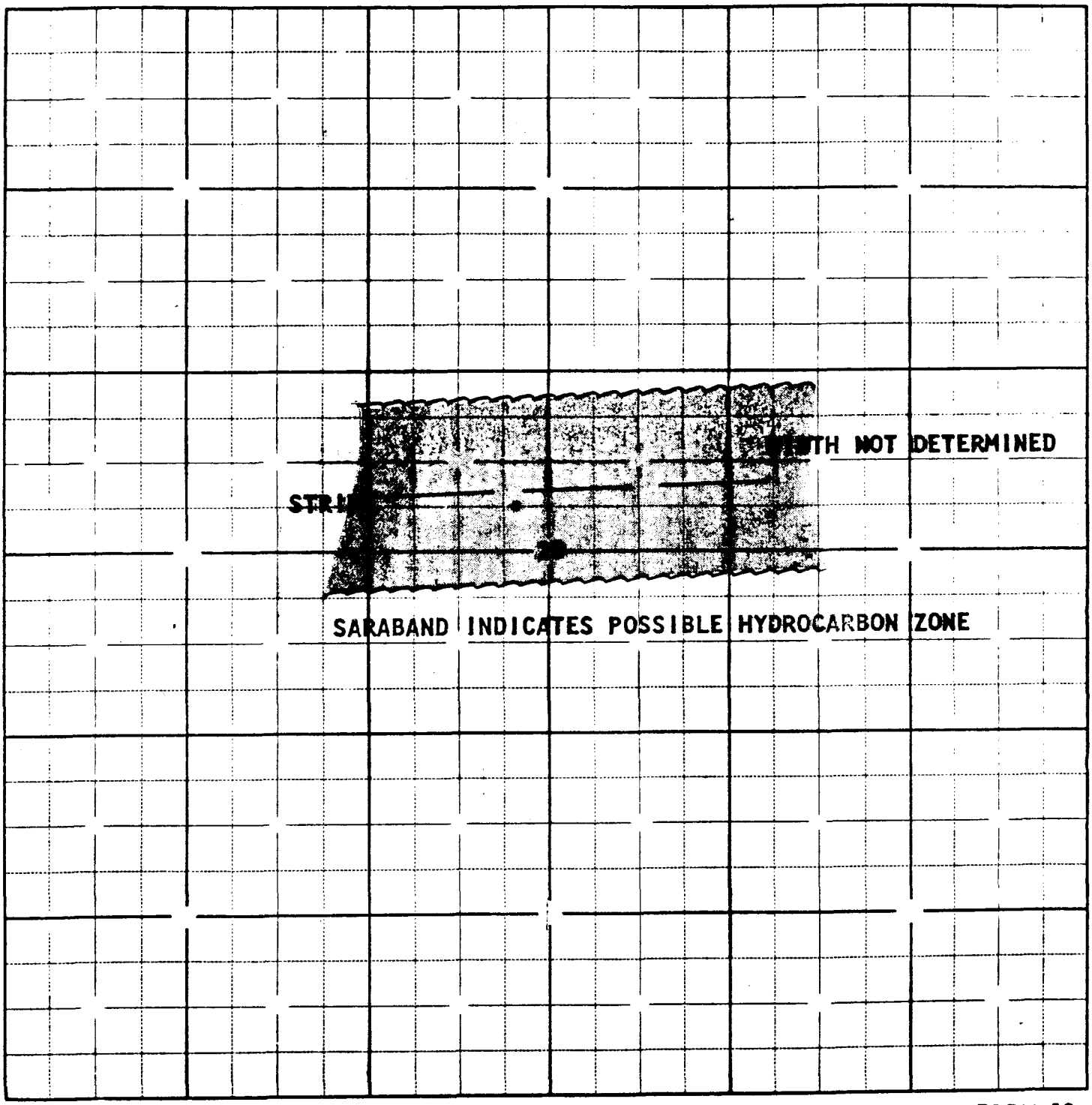
SARABAND INDICATES POSSIBLE HYDROCARBON ZONE

FORM 53

ATTACHMENT 12

Township 10S, Range 17E, County DUCHESNE, State UTAH,

11066' - 11090'

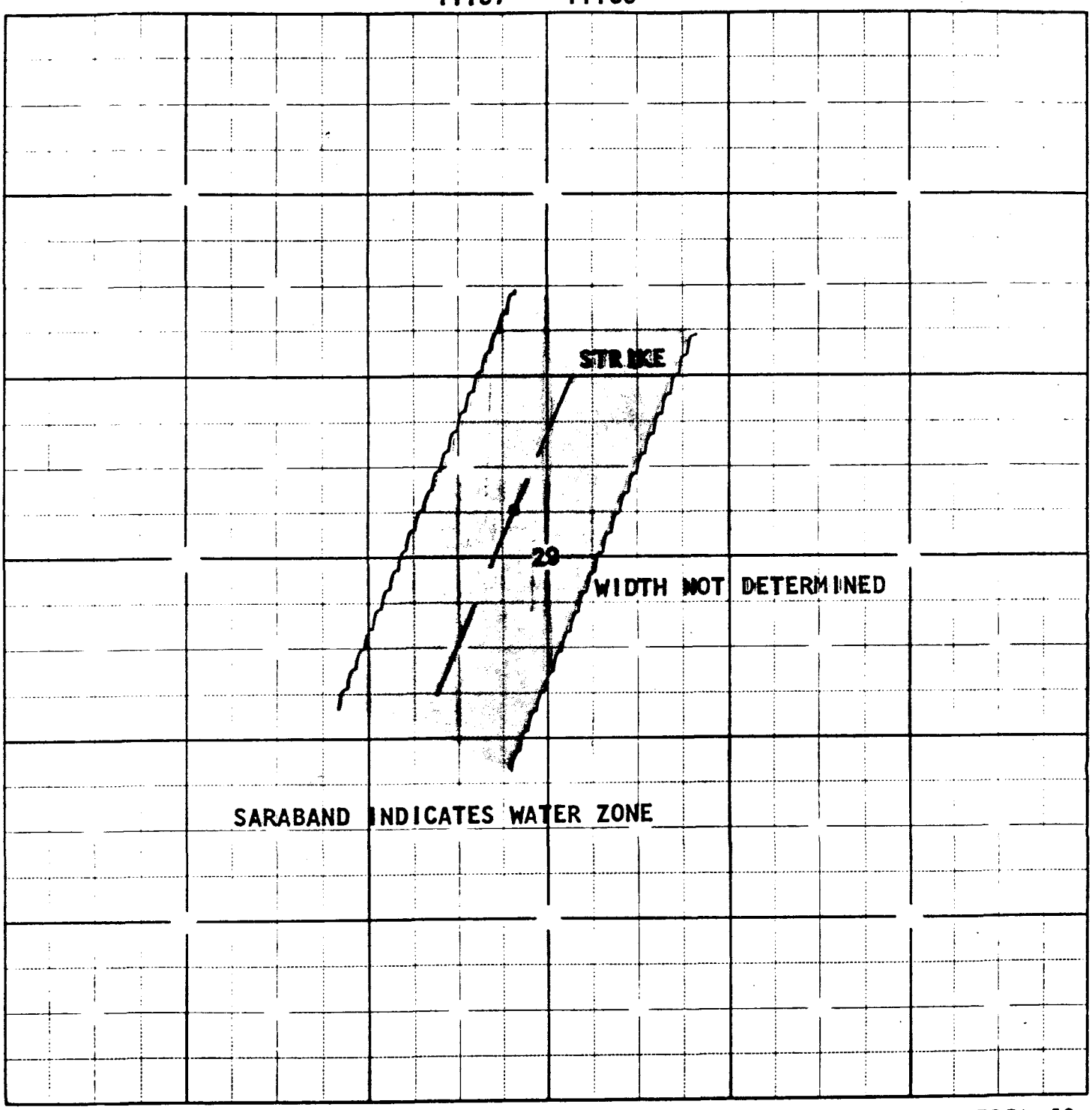


FORM 53

ATTACHMENT 13

Township 10S, Range 17E, County DUCHESNE, State UTAH,

11137' - 11153'

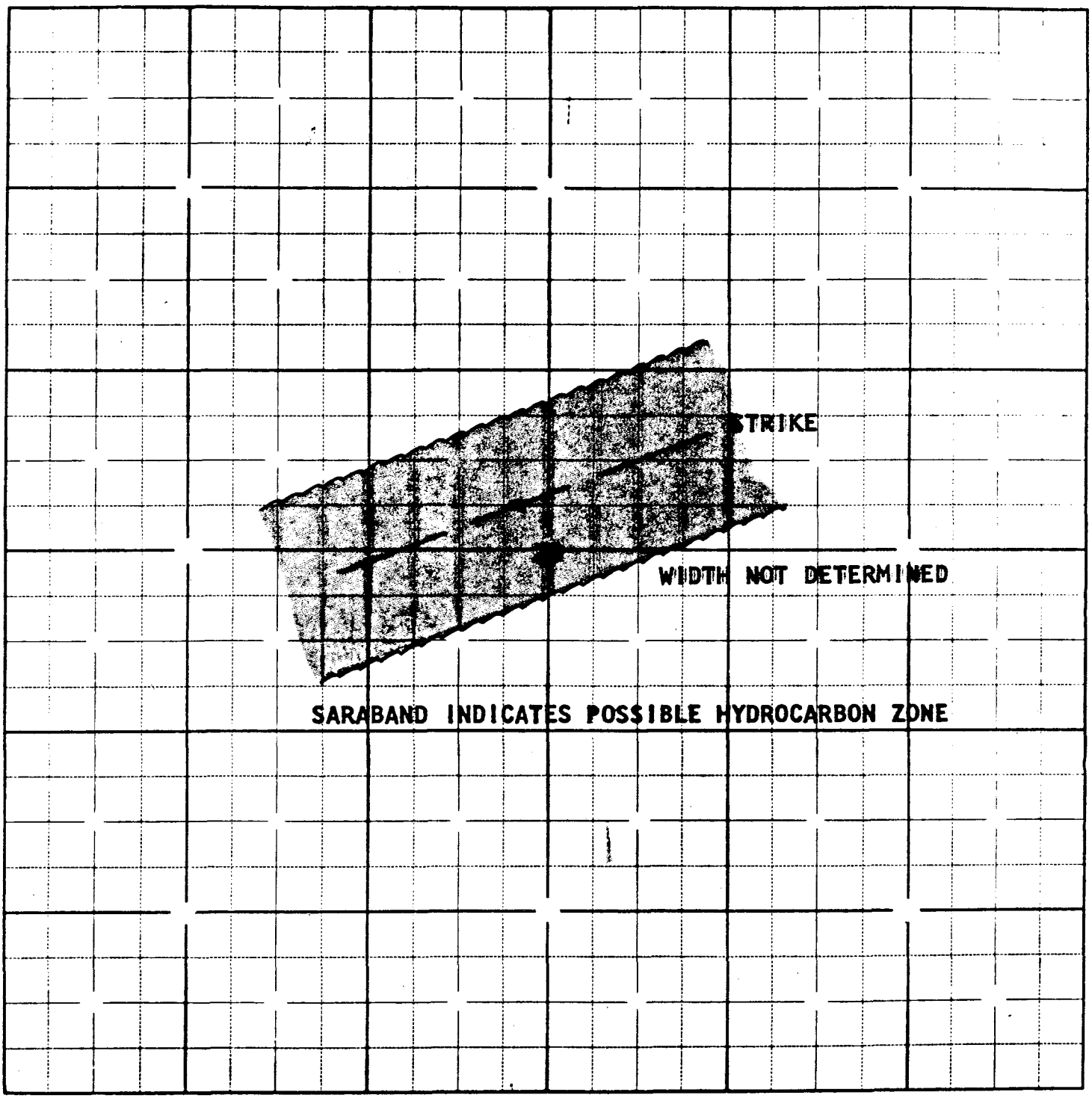


FORM 53

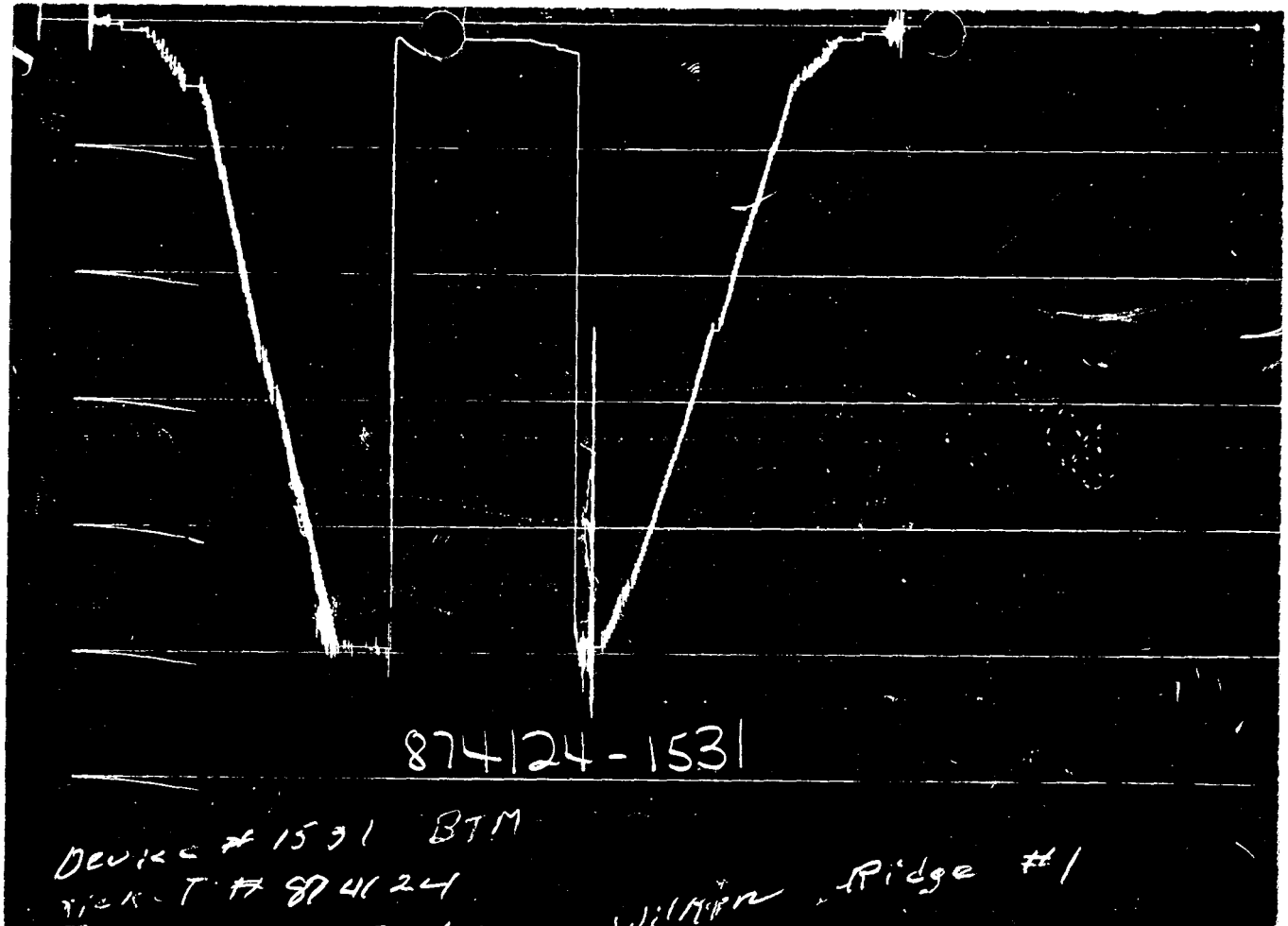
ATTACHMENT 14

Township 10S, Range 17E, County DUCHESNE, State UTAH,

11161' - 11195'



FORM 53


874124-1531
Device # 1591 BTM
Ticket # 874124
Wilmer Ridge #1

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980' FNL, 2055' FWL

5. LEASE DESIGNATION AND SERIAL NO.
Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Wilkin Ridge Unit

8. FARM OR LEASE NAME

9. WELL NO.
Exxon #1 Wilkin Ridge Unit

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29-T10S-R17E, SLM

14. PERMIT NO.
API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6192' RDB

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	X	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS					
(Other)				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Attached for review and approval is the completion procedure for a massive frac treatment on the subject well.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION
DATE DEC 12 1974
BY C. B. Feight

2cc: Utah Division of Oil & Gas Conservation

18. I hereby certify that the foregoing is true and correct

SIGNED Gene D. Thompson TITLE Division Drilling Manager DATE 12-10-74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION DEPARTMENT
WESTERN DIVISION

DORSEY HAWKINS
DIVISION ACCOUNTANT

CONFIDENTIAL

December 11, 1974

U. S. Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached for your approval are three copies of Sundry Notices and Reports on Wells for Exxon #1 Wilkin Ridge Unit which covers our completion efforts and necessary gas flaring.

Our Sundry Notice dated December 10, 1974 requesting approval for a massive frac treatment was not marked confidential. Please stamp this report "Confidential" and restrict access to this well file under your normal confidential procedures.

Yours very truly,

D. M. Vlazny

DMV:sp
Attachments (3)

cc Utah Division of Oil & Gas Conservation (2)
Pacific Transmission Supply (2)
Chorney Oil Company (2)
Gulf Oil Corporation (2)
Placid Oil Company (2)
Skyline Oil Company (2)
Mr. Gilman A. Hill (1)
Mr. Gene D. Thompson (1)

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Wilkin Ridge Unit

8. FARM OR LEASE NAME

9. WELL NO.
Exxon #1 Wilkin Ridge Unit

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29-T10S-R17E, SLM

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
P. O. Box 120; Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1,980' FNL, 2,055' FWL

14. PERMIT NO.
API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6,192' RDB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	X	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS					
(Other) Gas flaring during testing			X	(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

During the completion attempt on this wildcat well it will be necessary to flare gas. After perforating, the well will be tested for 2 or 3 days to determine its potential prior to a massive frac treatment. After the stimulation, a larger testing period will be required, approximately 30 days, to determine if gas can be produced in commercial quantity. All gas will be metered. Your approval is requested.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION
DATE DEC 13 1974
BY C B Feight

CONFIDENTIAL

18. I hereby certify that the foregoing is true and correct
SIGNED John F. Richardson TITLE Senior Staff Engineer DATE 12/11/74
John F. Richardson

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

COMPLETION PROCEDURE FOR WILKIN RIDGE #1

1. Displace cement with 2% KCl water with 5-1/2" casing set at 12,390'.

2. Land 5-1/2" casing and install 5000# x 10,000# tubing head.

3. Install 10,000# 7-1/16" BOP stack consisting of a double Shaffer, cross-over, and a single Shaffer. Test BOP's to 10,000 psi and casing to 7,200 psi.

4. Run Schlumberger GR-Collar Log TD to 9000' and cement Bond Log. Check plugback.

5. Pick up and run 2-7/8" EUE tubing and land at 10,150' with Otis nipples as per attached sketch.

6. Install 10,000# 2-1/2" Christmas tree. Rig up Schlumberger and run thru tubing Gamma Ray Collar Log.

7. Based on Sonic Gamma Ray Log, perforate 5-1/2" casing selectively with 58 2" OD, 0.34" ID holes using Hyperjet Schlumberger thru tubing gun with magnetic positioner at the depths shown on attached table.

8. Rig up Halliburton on tubing and casing with approximately 2000 HHP and establish breakdown and injectivity rate using 2% KCl water. Inject ball sealers until complete ball off obtained on above-described 58 perforations.

9. Rig up NOWSCO and displace all fluid in annulus and tubing with nitrogen.

10. Place well on production test thru Stooksberry one million BTU heater and 15 million cu. ft./D separator, measuring liquid recovery in stock tanks and flaring produced gas. Maintain accurate record of formation gas flared.

11. After obtaining stable flow, run Schlumberger gradiomanometer and flow meter.

12. Obtain two representative gas samples at Stooksberry's gas separator for lab analysis.

13. Rig up Otis wireline and run two Amerada bottom hole pressure bombs (72 hr. clocks, 8000 to 10,000 psi springs), and set in N-locking mandrel.

14. After completing primary production test, shut in, recording casing and tubing pressure with 2-pen recorder during build-up.

15. After a shut-in time equal to flow time, or earlier if surface pressures indicate static tubing pressure, rig up Otis and recover subsurface pressure bombs.

16. Kill well by circulating and bullheading 12.3#/gal. brine and observe well for flow. If well flows and/or shuts in with greater than 100 psi, circulate salt water system and add additional salt to obtain necessary hydrostatic head to kill well. Heat salt water, if necessary, to weight up.

17. Install Otis back pressure valve in Otis X nipple near bottom of tubing.

18. Remove Christmas tree and install one 5000 psi Hydril BOP and Guiberson stripper.

19. Pull and stand 2-7/8" tubing in derrick.

20. Complete rigging up for massive frac treatment, removing the Hydril BOP and installing HOWCO's 15,000# 4-1/2" frac manifold to upper 10,000# single Shaffer BOP.

21. Stimulate the Mesa Verde down 5-1/2" casing with a maximum of 7,200 psi as outlined in the attached massive-frac treatment.

22. After frac job, conduct extended production test to evaluate massive frac treatment, measuring and flaring produced gas and selling produced liquids to Permian (prepare appropriate Company, State and Federal forms, indicating recovered frac oil and formation gas flared).

23. After 2 or 3 day period, check produced fluids for sand content and ratio of frac condensate and water. If no sand, run Otis wireline with feeler and check opposite perforations for sand bridges with well SI.

24. If casing is open opposite perforations without significant sand fill, rig up to produce at high rates to draw casing pressure down below 100 psi.

25. At such time as able to maintain flowing casing pressure at 100 psi or less for significant period, rig up Otis lubricator on 7-1/16" 10,000# flange and run Otis Perma-Drill 5-1/2" production packer with J-slot and set at approximately 10,150' with well shut in.

26. Resume production after removing Otis equipment and install 5000# Hydril and Guiberson stripper.

27. Install TX and TN input valves in lower nipples. Strip in 2-7/8" tubing string with Otis latch-in and seal assembly below previous tubing seating assembly.

28. Hang off 2-7/8" tubing and remove BOP equipment.

29. Space out and land tubing with 10,000 psi 2-1/2" Christmas tree.

30. After testing tree and flanges, rig up Otis and remove TX & TN input valves.

31. Place well back on production for an extended period until well stabilizes and proves commercial.

32. If well commercial, install Otis plug in X nipple at 3250' and McEvoy Christmas Tree blanking plug.

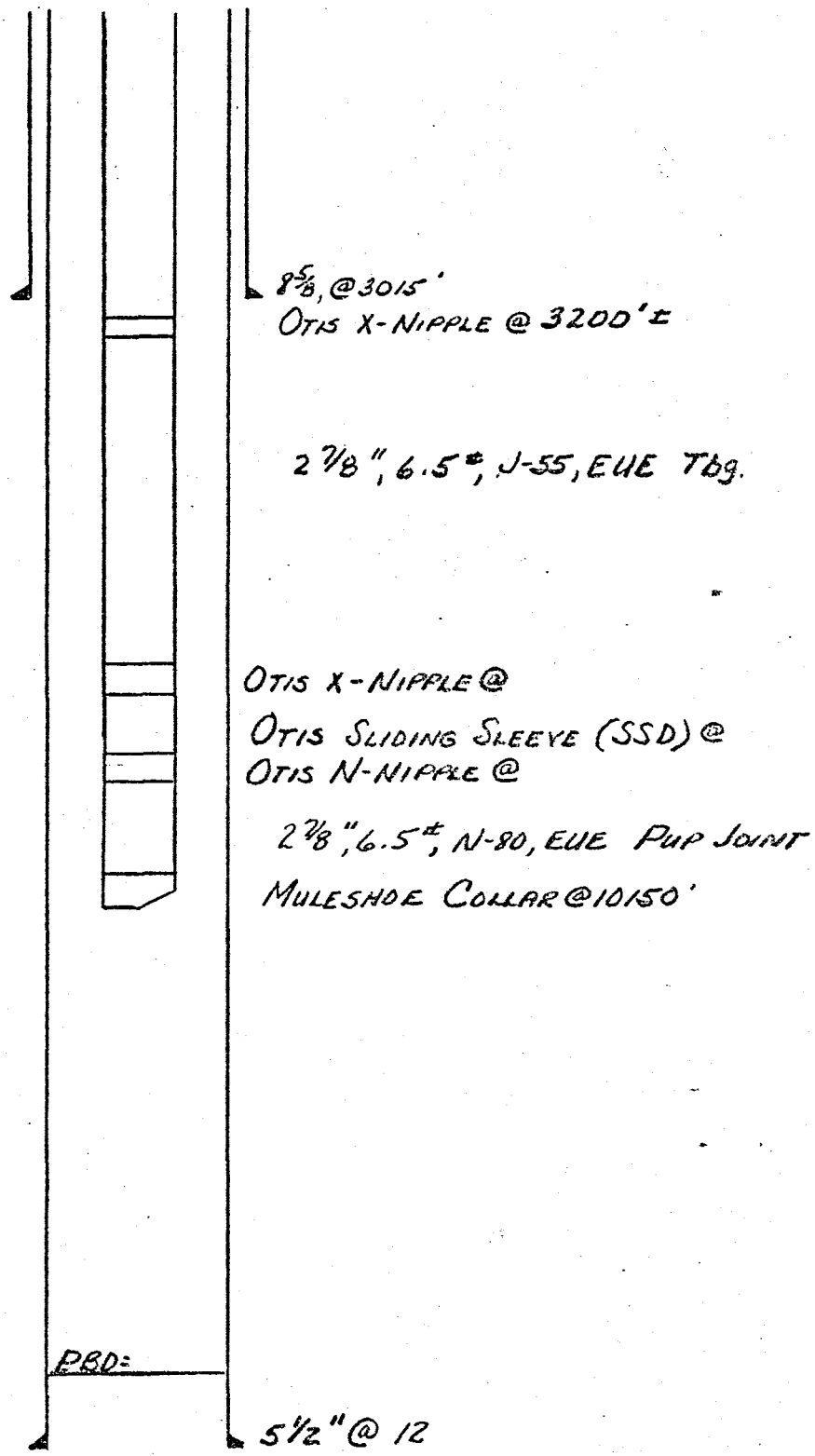
33. Rig down Brinkerhoff rig and move to next location.

34. Lay 5" welded flow line to nearby Mountain Fuel gas sales line and place well on production for six months' period to continue evaluating massive frac treatment. Equip surface production equipment with necessary metering and dehydrating facilities to operate unattended.

GDT/sjg

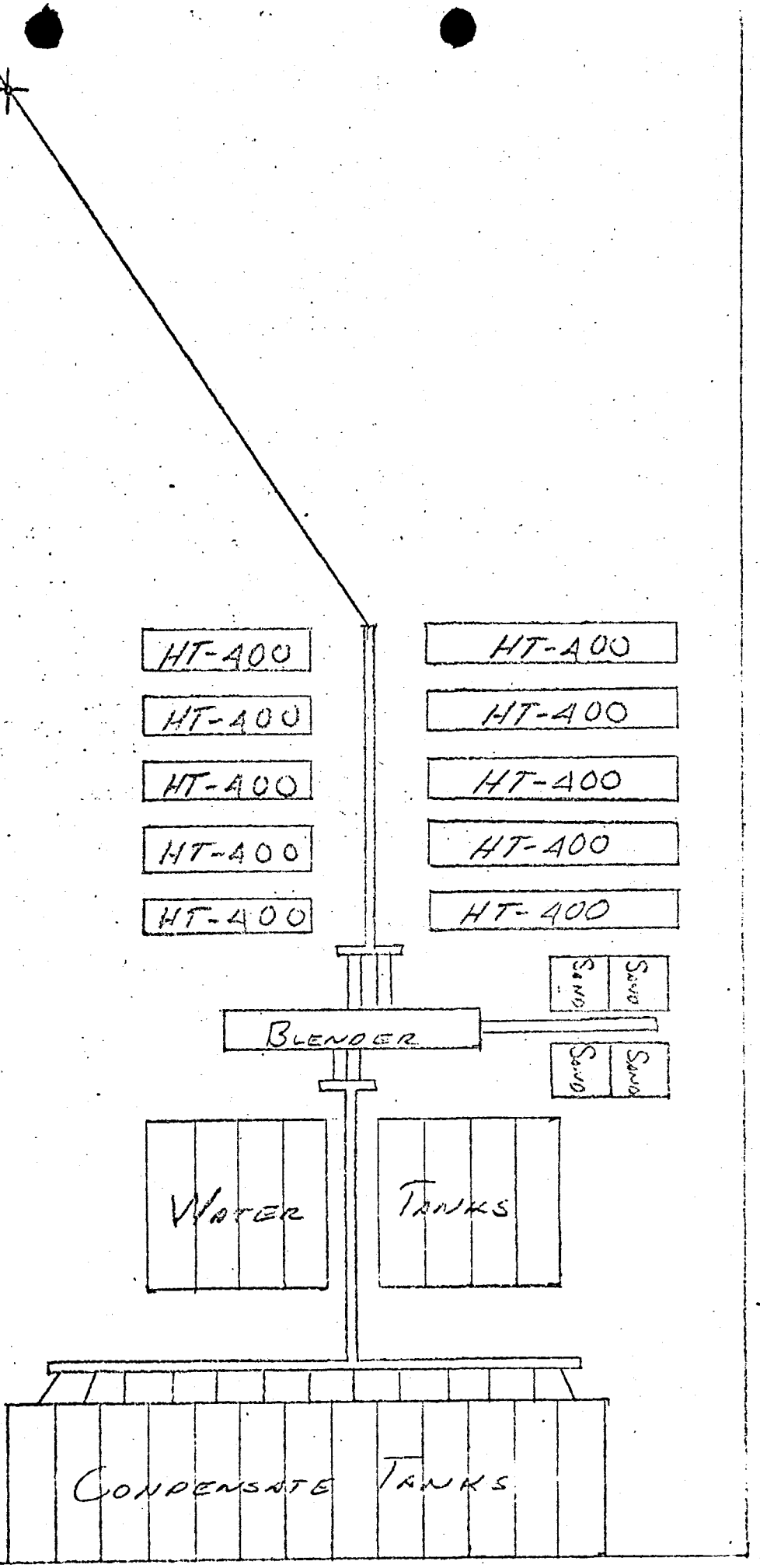
December 10, 1974

EXXON #1 WILKIN RIDGE UNIT
WELLBORE SCHEMATIC



12/9/74
RS

Exxon
No. 1 Wilkin Ridge Unit
Nine Mile Canyon
Sec. 29-T10S-R17E
Duchesne County, Utah



Exxon
No. 1 Wilkin Ridge Unit
Nine Mile Canyon
Sec. 29-T10S-R17E
Duchesne County, Utah

INTERVALS SELECTED FOR FRACTURING

EXXON #1 WILKIN RIDGE UNIT

Interval	Gross Thickness	Perforations
Depths from Run #1 BHC-Gamma Ray		
10235-10365	130	10241, 10248, 10255, 10278, 10284, 10305, 10313, 10330, 10340, 10350
10505-10615	110	10535, 10544, 10555, 10584, 10600, 10607
10885-10925	40	10902, 10910, 10918
10950-11045	95	10966, 10973, 10980, 11018, 11027, 11036
11065-11090	25	11070, 11079, 11085
11135-11195	60	11142, 11148, 11166, 11174, 11187
11285-11335	50	11296, 11303, 11324
Depths from Run #2 BHC-Gamma Ray		
11490-11510	20	11504
11540-11590	50	11552, 11562, 11577, 11584
11795-11830	35	11806, 11815, 11823
11880-12140	260	11885, 11898, 11908, 11918, 11960, 11968, 11994, 12004, 12014, 12062, 12068, 12118, 12124, 12130
Total	875	58

Exxon
No. 1 Wilkin Ridge Unit
Nine Mile Canyon
Sec. 29-T10S-R17E
Duchesne County, Utah

BREAKDOWN PROCEDURE

Pump 500 barrels of 2% KCl Water down the tubing and annulus at ± 15 BPM utilizing 2000 HHP. Drop 2 balls every 250 gallons in the first 5,000 gallons, drop 3 balls every 250 gallons in the next 5,000 gallons, displace to Perfs.

FRAC PROCEDURE

Frac Fluid will be Super Emulsifrac with the water phase containing 50 lb/M WG-6, 5 gal/M SEM-5, .5 gal/M Adocide, 10 lb/M CW-1, 125 lb/M KCl, .5 gal/M NF-1.

Utilize 10,000 HHP and treat down casing at ±40 BPM with a wellhead pressure of 7000 PSI.

GALLONS	EVENT	SAND 40/60	SAND 20/40
20,000	Sem Pad		
25,000	1 PPG 40/60 Sand	25,000	
20,000	2 PPG 40/60 Sand	40,000	
20,000	3 PPG 40/60 Sand	60,000	
20,000	3 PPG 20/40 Sand		60,000
20,000	4 PPG 20/40 Sand		80,000
5,000	Special SEM Pad with RCN Balls		
15,000	Sem Pad		
25,000	1 PPG 40/60 Sand	25,000	
20,000	2 PPG 40/60 Sand	40,000	
20,000	3 PPG 40/60 Sand	60,000	
20,000	3 PPG 20/40 Sand		60,000
20,000	4 PPG 20/40 Sand		80,000
5,000	Special SEM Pad with RCN Balls		
15,000	Sem Pad		
25,000	1 PPG 40/60 Sand	25,000	
20,000	2 PPG 40/60 Sand	40,000	
20,000	3 PPG 40/60 Sand	60,000	
20,000	3 PPG 20/40 Sand		60,000
20,000	4 PPG 20/40 Sand		80,000
±12,500	Flush to Perfs with 2% KCl Water		
387,500		375,000	420,000

SPERRY - SUN
PRESSURE GAUGE FIELD DATA SHEET

JOB NO. SPG-11251 DATE March 1, 1975 RUN #1 OFFICE CASPER

TOMER Exxon U.S.A. LOCATION Wilkin Ridge Unit #1

STATE Utah COUNTY/PARISH Duchesne

WELL Wilkin Ridge NO. Unit #1 FIELD Nine Mile Canyon

TYPE TEST Static Shut-IN TEST DEPTH 10,463' ZERO POINT Tubing hanger

USE MILITARY TIME FOR ALL TIMES

		TIME	DATE	TIME	DATE	TIME	DATE
ARRIVE: WELL/[redacted]	1.	0800	3/1/75	2. 0730	3/7/75	3.	
DEPART: WELL/[redacted]	1.	1400	3/1/75	2. 2130	3/7/75	3.	
GAUGE IN LUB. RUN #	1.	1113 hrs.	3/1/75	2.		3.	
GAUGE OUT LUB. RUN #	1.	1255 hrs.	3/7/75	2.		3.	

TOP GAUGE # 104 ELEMENT # 30187N RANGE 8,000 lb. TIME MODE 8 min.

BTM. GAUGE # 166 ELEMENT # 32252 RANGE 8,000 lb TIME MODE 8 min.

	TIME	DATE				
TIME ON BOTTOM	1347	3/1/75	STARTING POWER	13 V	FLUID LEVEL	—
E OFF BOTTOM	1158	3/7/75	ENDING POWER	11 V	FLUID LEVEL	—
GAUGE SET AT	10,452', 10,463' FEET		B.H. TEMPERATURE	195 F	ATMOS. TEMPERATURE	38 C F
DATUM	11,000 FEET KB		REF. ELEV.	—	NO. TRIPS	2 MILES 1,644
WELL OPEN	When Arrived		WELL SHUT-IN	2300hrs, 3/1/75	TOTAL MILEAGE	1,644

LAST NULL IN LUB. 1129 hrs & 1127 hrs. 3/1/75 SURFACE PRESSURE 45 PSIG

GRADIENT STOPS (ON OTHER SHEET)

DEPTH	IN - OUT TIME START	STOP	DEPTH	IN - OUT TIME START	STOP
FT.			FT.		
FT.			FT.		
FT.			FT.		

REMARKS: 2 men present second time at well

Don Mason
OPERATOR

SP-400 (REV.2 - 12/72)

PG-11251 GRADIENT RUN EXXON U.S.A.

3/7/75

Time Mode: 30 SECOND

Top GAUGE #104 First Null : 1413

Btm. GAUGE #166 First Null : 1417

(10 Pre-set Nulls)

VOLTAGE w/LOAD: Top 11 V : Btm 11.2 V ZERO: Tubing HANGER

1422 hrs - 1424 hrs. Opening WELL to LUB.

1424 hrs - 1425 hrs. 1st Audible Null in LUB.

(Time) IN-RUN	OUT-RUN	Depth
1431 - 1435	1711 - 1714	0'
1439 - 1442		1000'
1446 - 1449		2000'
1452 - 1455		3000'
1458 - 1502		4000'
1507 - 1510		5000'
1514 - 1517		6000'
1519 - 1522		7000'
1526 - 1529		8000'
1532 - 1535		9000'
1540 - 1543		10,000'
1544 - 1547		10,200'
1549 - 1552		10,400'

sperry-sun

P. O. Box 36363 Houston, Texas 77036 Phone (713) 494-3021
Cable SPERRYSUN TELEX 76-2795

Houston, Corpus Christi, and Odessa, Tex./Lafayette, and New Orleans, La./Long Beach and Ventura, Calif./Anchorage, Alaska/Brewton, Ala./Brookhaven, Miss./Casper Wyo./Mercury, Nev./Oklahoma City, Okla./Vernal, Utah/Edmonton, Alta., Canada/Dubai, United Arab Emirates, Arabian Gulf/Great Yarmouth, Norfolk, England/Aberdeen, Scotland/Servco de Venezuela, Maracaibo/Trinidad Well Control, Trinidad, W. I.

JOB NUMBER
SPG-11257

DATE OF JOB
MARCH 7 1975-MARCH 13, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

EXXON COMPANY U.S.A.

WELL NUMBER	WILKIN RIDGE UNIT NO.1
FIELD/LEASE	NINE MILE CANYON
COUNTY/PARISH	DUCHESNE
STATE	UTAH
TYPE OF TEST	STATIC TEST
REFERENCE ELEV	KELLY BUSHING

ADDITIONAL INFORMATION

GAUGE NO. 102 SET AT DEPTH OF 10,441 FEET, (Took readings from top gauge, as lower of 2 gauges malfunctioned).

ELEMENT NO. 31631 A 8,000 PSI ELEMENT

WELL PERFORATIONS ARE FROM 10,535 FEET TO 12,130 FEET IN SELECTED ZONES.

PRESSURE AT BEGINING OF SHUT-IN TEST WAS 3262.99 P.S.I.

PRESSURE AT END OF SHUT-IN TEST WAS 3950.23 P.S.I.

WELL SHUT-IN PRIOR TO TEST AND DURING TEST

DATUM IS 11,000 FEET K.B.

MAXIMUM BOTTOM HOLE TEMPERATURE WAS 242* DEG. F. AT GAUGE DEPTH 10,441 FT. (242 DEG. F. Reported for each of 2 thermometers).

*Note that when gauges were pulled 3-7-75, a temperature of 195°F at gauge depth of 10,463 ft. This 242°F is higher than expected; additional measurements are planned. (EGH)

256 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11257

DATE OF JOB
MARCH 7 1975-MARCH 13, 1975

GAUGE/RUN NUMBER
NO. 102 RUN NO. 1

DATE OF RUN
MARCH 14, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	3262.991	19	52	MAR 07,1975	ON BOTTOM AND
0.531	3267.298	20	24	MAR 07,1975	RELEASED OFF
1.062	3271.980	20	56	MAR 07,1975	GAUGES WELL
1.592	3276.099	21	28	MAR 07,1975	SHUT-IN
2.123	3279.845	21	59	MAR 07,1975	
2.654	3283.028	22	31	MAR 07,1975	
3.185	3286.399	23	03	MAR 07,1975	
3.716	3290.332	23	35	MAR 07,1975	
4.246	3293.890	00	07	MAR 08,1975	
4.777	3297.073	00	39	MAR 08,1975	
5.308	3300.444	01	10	MAR 08,1975	
5.839	3302.878	01	42	MAR 08,1975	
6.370	3306.062	02	14	MAR 08,1975	
6.900	3309.433	02	46	MAR 08,1975	
7.431	3312.429	03	18	MAR 08,1975	
7.962	3315.612	03	50	MAR 08,1975	
8.493	3319.171	04	22	MAR 08,1975	
9.024	3322.354	04	53	MAR 08,1975	
9.554	3325.350	05	25	MAR 08,1975	
10.085	3328.721	05	57	MAR 08,1975	
10.616	3331.717	06	29	MAR 08,1975	
11.147	3335.275	07	01	MAR 08,1975	
11.678	3338.646	07	33	MAR 08,1975	
12.208	3341.830	08	05	MAR 08,1975	
12.739	3345.013	08	36	MAR 08,1975	
13.270	3348.571	09	08	MAR 08,1975	
13.801	3351.755	09	40	MAR 08,1975	
14.332	3355.126	10	12	MAR 08,1975	
14.862	3358.496	10	44	MAR 08,1975	
15.393	3362.054	11	16	MAR 08,1975	
15.924	3365.612	11	47	MAR 08,1975	
16.455	3368.234	12	19	MAR 08,1975	
16.986	3371.792	12	51	MAR 08,1975	
17.516	3374.976	13	23	MAR 08,1975	
18.047	3378.347	13	55	MAR 08,1975	
18.578	3381.343	14	27	MAR 08,1975	
19.109	3384.714	14	59	MAR 08,1975	
19.640	3388.084	15	30	MAR 08,1975	
20.170	3391.081	16	02	MAR 08,1975	
20.701	3394.077	16	34	MAR 08,1975	

JOB NUMBER
SPG-11257

DATE OF JOB
MARCH 7 1975-MARCH 13, 1975

GAUGE/RUN NUMBER
NO. 102 RUN NO. 1

DATE OF RUN
MARCH 14, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
21.232	3397.448	17	06	MAR 08,1975	
21.763	3400.069	17	38	MAR 08,1975	
22.294	3403.627	18	10	MAR 08,1975	
22.824	3406.436	18	41	MAR 08,1975	
23.355	3409.433	19	13	MAR 08,1975	
23.886	3412.429	19	45	MAR 08,1975	
24.417	3415.800	20	17	MAR 08,1975	
24.948	3418.421	20	49	MAR 08,1975	
25.478	3421.418	21	21	MAR 08,1975	
26.009	3424.976	21	53	MAR 08,1975	
26.540	3427.785	22	24	MAR 08,1975	
27.071	3430.968	22	56	MAR 08,1975	
27.602	3433.965	23	28	MAR 08,1975	
28.132	3437.148	00	00	MAR 09,1975	
28.663	3440.144	00	32	MAR 09,1975	
29.194	3443.141	01	04	MAR 09,1975	
29.725	3446.699	01	35	MAR 09,1975	
30.256	3449.695	02	07	MAR 09,1975	
30.786	3452.691	02	39	MAR 09,1975	
31.317	3455.687	03	11	MAR 09,1975	
31.848	3458.684	03	43	MAR 09,1975	
32.379	3461.680	04	15	MAR 09,1975	
32.910	3464.676	04	47	MAR 09,1975	
33.440	3467.860	05	18	MAR 09,1975	
33.971	3470.669	05	50	MAR 09,1975	
34.502	3473.478	06	22	MAR 09,1975	
35.033	3476.474	06	54	MAR 09,1975	
35.564	3479.470	07	26	MAR 09,1975	
36.094	3482.279	07	58	MAR 09,1975	
36.625	3485.463	08	30	MAR 09,1975	
37.156	3488.272	09	01	MAR 09,1975	
37.687	3491.642	09	33	MAR 09,1975	
38.218	3494.451	10	05	MAR 09,1975	
38.748	3497.260	10	37	MAR 09,1975	
39.279	3499.882	11	09	MAR 09,1975	
39.810	3503.253	11	41	MAR 09,1975	
40.341	3505.875	12	12	MAR 09,1975	
40.872	3508.871	12	44	MAR 09,1975	
41.402	3512.054	13	16	MAR 09,1975	
41.933	3514.863	13	48	MAR 09,1975	

JOB NUMBER
SPG-11257

DATE OF JOB
MARCH 7 1975-MARCH 13, 1975

GAUGE/RUN NUMBER
NO. 102 RUN NO. 1

DATE OF RUN
MARCH 14, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
42.464	3517.860	14	20	MAR 09,1975	
42.995	3520.669	14	52	MAR 09,1975	
43.526	3523.665	15	24	MAR 09,1975	
44.056	3526.474	15	55	MAR 09,1975	
44.587	3529.470	16	27	MAR 09,1975	
45.118	3532.279	16	59	MAR 09,1975	
45.649	3535.088	17	31	MAR 09,1975	
46.180	3537.897	18	03	MAR 09,1975	
46.710	3540.706	18	35	MAR 09,1975	
47.241	3543.702	19	06	MAR 09,1975	
47.772	3546.699	19	38	MAR 09,1975	
48.303	3549.133	20	10	MAR 09,1975	
48.834	3552.317	20	42	MAR 09,1975	
49.364	3555.126	21	14	MAR 09,1975	
49.895	3557.935	21	46	MAR 09,1975	
50.426	3560.744	22	18	MAR 09,1975	
50.957	3563.365	22	49	MAR 09,1975	
51.488	3566.174	23	21	MAR 09,1975	
52.018	3569.171	23	53	MAR 09,1975	
52.549	3571.792	00	25	MAR 10,1975	
53.080	3574.601	00	57	MAR 10,1975	
53.611	3577.223	01	29	MAR 10,1975	
54.142	3579.845	02	00	MAR 10,1975	
54.672	3582.466	02	32	MAR 10,1975	
55.203	3585.275	03	04	MAR 10,1975	
55.734	3588.272	03	36	MAR 10,1975	
56.265	3590.893	04	08	MAR 10,1975	
56.796	3593.515	04	40	MAR 10,1975	
57.326	3596.137	05	12	MAR 10,1975	
57.857	3598.759	05	43	MAR 10,1975	
58.388	3601.568	06	15	MAR 10,1975	
58.919	3604.002	06	47	MAR 10,1975	
59.450	3606.998	07	19	MAR 10,1975	
59.980	3609.433	07	51	MAR 10,1975	
60.511	3612.054	08	23	MAR 10,1975	
61.042	3614.676	08	55	MAR 10,1975	
61.573	3617.485	09	26	MAR 10,1975	
62.104	3620.294	09	58	MAR 10,1975	
62.634	3623.103	10	30	MAR 10,1975	
63.165	3625.725	11	02	MAR 10,1975	

JOB NUMBER
SPG-11257

DATE OF JOB
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NO. 102 RUN NO. 1

DATE OF RUN
MARCH 14, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
63.696	3628.347	11	34	MAR 10,1975	
64.227	3630.781	12	06	MAR 10,1975	
64.758	3634.339	12	37	MAR 10,1975	
65.288	3636.961	13	09	MAR 10,1975	
65.819	3639.395	13	41	MAR 10,1975	
66.350	3642.579	14	13	MAR 10,1975	
66.881	3645.388	14	45	MAR 10,1975	
67.412	3648.009	15	17	MAR 10,1975	
67.942	3651.006	15	49	MAR 10,1975	
68.473	3653.253	16	20	MAR 10,1975	
69.004	3655.875	16	52	MAR 10,1975	
69.535	3658.871	17	24	MAR 10,1975	
70.066	3661.118	17	56	MAR 10,1975	
70.596	3663.553	18	28	MAR 10,1975	
71.127	3666.093	19	00	MAR 10,1975	
71.658	3668.715	19	31	MAR 10,1975	
72.189	3670.962	20	03	MAR 10,1975	
72.720	3674.146	20	35	MAR 10,1975	
73.250	3676.956	21	07	MAR 10,1975	
73.781	3679.391	21	39	MAR 10,1975	
74.312	3681.826	22	11	MAR 10,1975	
74.843	3684.448	22	43	MAR 10,1975	
75.374	3687.070	23	14	MAR 10,1975	
75.904	3689.692	23	46	MAR 10,1975	
76.435	3691.940	00	18	MAR 11,1975	
76.966	3694.750	00	50	MAR 11,1975	
77.497	3696.997	01	22	MAR 11,1975	
78.028	3699.807	01	54	MAR 11,1975	
78.558	3702.242	02	26	MAR 11,1975	
79.089	3705.051	02	57	MAR 11,1975	
79.620	3707.486	03	29	MAR 11,1975	
80.151	3710.108	04	01	MAR 11,1975	
80.682	3712.543	04	33	MAR 11,1975	
81.212	3715.165	05	05	MAR 11,1975	
81.743	3717.226	05	37	MAR 11,1975	
82.274	3720.035	06	08	MAR 11,1975	
82.805	3722.283	06	40	MAR 11,1975	
83.336	3725.092	07	12	MAR 11,1975	
83.866	3727.340	07	44	MAR 11,1975	
84.397	3729.775	08	16	MAR 11,1975	

JOB NUMBER
SPG-11257

DATE OF JOB
MARCH 7 1975-MARCH 13, 1975

GAUGE/RUN NUMBER
NO. 102 RUN NO. 1

DATE OF RUN
MARCH 14, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
84.928	3732.397	08	48	MAR 11,1975	
85.459	3734.832	09	20	MAR 11,1975	
85.990	3737.454	09	51	MAR 11,1975	
86.520	3739.514	10	23	MAR 11,1975	
87.051	3741.013	10	55	MAR 11,1975	
87.582	3743.635	11	27	MAR 11,1975	
88.113	3746.257	11	59	MAR 11,1975	
88.644	3748.505	12	31	MAR 11,1975	
89.174	3750.752	13	02	MAR 11,1975	
89.705	3753.375	13	34	MAR 11,1975	
90.236	3755.622	14	06	MAR 11,1975	
90.767	3758.057	14	38	MAR 11,1975	
91.298	3758.057	15	10	MAR 11,1975	
91.828	3762.927	15	42	MAR 11,1975	
92.359	3765.549	16	14	MAR 11,1975	
92.890	3767.610	16	45	MAR 11,1975	
93.421	3770.044	17	17	MAR 11,1975	
93.952	3772.292	17	49	MAR 11,1975	
94.482	3774.914	18	21	MAR 11,1975	
95.013	3777.162	18	53	MAR 11,1975	
95.544	3779.222	19	25	MAR 11,1975	
96.075	3782.032	19	56	MAR 11,1975	
96.606	3784.467	20	28	MAR 11,1975	
97.136	3786.714	21	00	MAR 11,1975	
97.667	3789.336	21	32	MAR 11,1975	
98.198	3791.584	22	04	MAR 11,1975	
98.729	3794.206	22	36	MAR 11,1975	
99.260	3796.641	23	08	MAR 11,1975	
99.790	3798.701	23	39	MAR 11,1975	
100.321	3800.949	00	11	MAR 12,1975	
100.852	3803.571	00	43	MAR 12,1975	
101.383	3805.632	01	15	MAR 12,1975	
101.914	3808.254	01	47	MAR 12,1975	
102.444	3810.689	02	19	MAR 12,1975	
102.975	3812.936	02	51	MAR 12,1975	
103.506	3815.371	03	22	MAR 12,1975	
104.037	3817.619	03	54	MAR 12,1975	
104.568	3820.054	04	26	MAR 12,1975	
105.098	3822.301	04	58	MAR 12,1975	
105.629	3824.923	05	30	MAR 12,1975	

JOB NUMBER
SPG-11257

DATE OF JOB
MARCH 7 1975-MARCH 13, 1975

GAUGE/RUN NUMBER
NO. 102 RUN NO. 1

DATE OF RUN
MARCH 14, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
106.160	3827.171	06	02	MAR 12,1975	
106.691	3829.419	06	33	MAR 12,1975	
107.222	3831.667	07	05	MAR 12,1975	
107.752	3833.914	07	37	MAR 12,1975	
108.283	3836.536	08	09	MAR 12,1975	
108.814	3838.971	08	41	MAR 12,1975	
109.345	3841.219	09	13	MAR 12,1975	
109.876	3843.279	09	45	MAR 12,1975	
110.406	3845.901	10	16	MAR 12,1975	
110.937	3848.149	10	48	MAR 12,1975	
111.468	3850.396	11	20	MAR 12,1975	
111.999	3852.831	11	52	MAR 12,1975	
112.530	3855.267	12	24	MAR 12,1975	
113.060	3857.889	12	56	MAR 12,1975	
113.591	3860.324	13	27	MAR 12,1975	
114.122	3862.571	13	59	MAR 12,1975	
114.653	3864.819	14	31	MAR 12,1975	
115.184	3867.254	15	03	MAR 12,1975	
115.714	3869.689	15	35	MAR 12,1975	
116.245	3872.123	16	07	MAR 12,1975	
116.776	3873.996	16	39	MAR 12,1975	
117.307	3876.619	17	10	MAR 12,1975	
117.838	3878.679	17	42	MAR 12,1975	
118.368	3881.301	18	14	MAR 12,1975	
118.899	3883.362	18	46	MAR 12,1975	
119.430	3886.171	19	18	MAR 12,1975	
119.961	3888.044	19	50	MAR 12,1975	
120.492	3890.479	20	21	MAR 12,1975	
121.022	3892.727	20	53	MAR 12,1975	
121.553	3894.974	21	25	MAR 12,1975	
122.084	3897.035	21	57	MAR 12,1975	
122.615	3899.469	22	29	MAR 12,1975	
123.146	3901.717	23	01	MAR 12,1975	
123.676	3903.777	23	33	MAR 12,1975	
124.207	3906.400	00	04	MAR 13,1975	
124.738	3908.460	00	36	MAR 13,1975	
125.269	3911.270	01	08	MAR 13,1975	
125.800	3913.142	01	40	MAR 13,1975	
126.330	3915.390	02	12	MAR 13,1975	
126.861	3917.638	02	44	MAR 13,1975	

JOB NUMBER
SPG-11257

DATE OF JOB
MARCH 7 1975-MARCH 13, 1975

GAUGE/RUN NUMBER
NO. 102 RUN NO. 1

DATE OF RUN
MARCH 14, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
127.392	3919.885	03	16	MAR 13,1975	
127.923	3921.945	03	47	MAR 13,1975	
128.454	3924.006	04	19	MAR 13,1975	
128.984	3926.441	04	51	MAR 13,1975	
129.515	3928.689	05	23	MAR 13,1975	
130.046	3930.749	05	55	MAR 13,1975	
130.577	3933.184	06	27	MAR 13,1975	
131.108	3935.619	06	58	MAR 13,1975	
131.638	3937.866	07	30	MAR 13,1975	
132.169	3940.114	08	02	MAR 13,1975	
132.700	3942.174	08	34	MAR 13,1975	
133.231	3944.235	09	06	MAR 13,1975	
133.762	3946.669	09	38	MAR 13,1975	
134.292	3945.733	10	10	MAR 13,1975	
134.823	3947.981	10	41	MAR 13,1975	
135.221	3950.228	11	05	MAR 13,1975	END TEST

256 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11257

DATE OF JOB
MARCH 13, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

EXXON COMPANY U.S.A.

WELL NUMBER	WILKIN RIDGE UNIT NO. 1
FIELD/LEASE	NINE MILE CANYON
COUNTY/PARISH	DUCHESNE
STATE	UTAH
TYPE OF TEST	GRADIENT TEST OUT-RUN
REFERENCE ELEV	KELLY BUSHING

ADDITIONAL INFORMATION

GAUGE NO. 102 WITH ELEMENT NO. 31631 A 8,000 PSI. ELEMENT
SET ON 8 MIN. MODE FROM TEST SPG-11257
OUT-RUN STOPS EVERY 200 FEET FROM 10,400 FEET TO 10,000 FEET
AND STOPS EVERY 1,000 FEET FROM 10,000 FEET TO 0.0 FEET
DATUM IS 11,000 FT. K.B.

0 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11257

DATE OF JOB
MARCH 13, 1975

GAUGE/RUN NUMBER
NO.102 RUN NO. 1

DATE OF RUN
MARCH 14, 1975

SPERRY-SUN

OUTRUN

GRADIANT STOP REPORT

DEPTH INTERVAL (FEET) FROM	TO	PRESSURE INTERVAL (PSI) FROM	TO	PRESSURE DIFFERENCE (PSI)	PRESSURE GRADIANT (PSI/FT)
10400.00	10200.00	4023.463	4033.952	10.489	0.052
10200.00	10000.00	4033.952	3997.615	36.337	0.182
10000.00	9000.00	3997.615	3951.165	46.450	0.046
9000.00	8000.00	3951.165	3894.225	56.940	0.057
8000.00	7000.00	3894.225	3787.089	107.136	0.107
7000.00	6000.00	3787.089	3675.458	111.631	0.112
6000.00	5000.00	3675.458	3572.354	103.104	0.103
5000.00	4000.00	3572.354	3472.729	99.626	0.100
4000.00	3000.00	3472.729	3374.414	98.315	0.098
3000.00	2000.00	3374.414	3280.781	93.633	0.094
2000.00	1000.00	3280.781	3069.732	211.049	0.211
1000.00	0.00	3069.732	2964.676	105.056	0.105

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

January 3, 1975

United States Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached are three copies of Lessee's Monthly Report of Operations on Wells for Exxon #1 Wilkin Ridge Unit for the month of December, 1974.

Yours very truly,

Gene D. Thompson

/sjg

Attachments

cc: Dorsey Hawkins
Pacific Transmission Supply
Chorney Oil Company
Gulf Oil Corporation
Placid Oil Company
Skyline Oil Company
Mr. Gilman A. Hill
Utah Division of Oil & Gas Conservation

CONFIDENTIAL

State

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. BOX 2794
CASPER, WYOMING 82601

GAS ANALYSIS REPORT

COMPANY:	Exxon Company, U.S.A.	DATE: January 14, 1975	LAB. NO. 14926
WELL NO.:	Wilkin Ridge Unit #1	LOCATION:	SE NW 29-10S-17E
FIELD:	Nine Mile (Wildcat)	FORMATION:	Mesa Verde
COUNTY:	Duchesne	DEPTH:	Perforated (48) @ 10535-12,130'
STATE:	Utah	SAMPLING POINT:	Production gas
LINE PRESSURE:	60 PSIG	SAMPLE PRESSURE:	60 PSIG
TEMPERATURE:	- DEGREES F	CONTAINER NO.	theirs

Sample #N-2, Sample caught from flow line upstream of Stooksberry's line heater which is upstream of separator unit.
Sampled 1-2-75 at 11:00p.m. by Benoit and Hays.

COMPONENT	MOLE % OR VOLUME %	GALLONS PER MCF
OXYGEN	0.00	
NITROGEN	0.09	
CARBON DIOXIDE	1.10	
HYDROGEN SULFIDE	0.00	
METHANE	80.91	
ETHANE	11.31	
PROPANE	3.89	1.067
ISO-BUTANE	0.83	0.271
N-BUTANE	0.82	0.259
ISO-PENTANE	0.31	0.113
N-PENTANE	0.19	0.069
HEXANES & HIGHER	0.55	0.253
TOTAL	100.00	2.032

GPM OF PENTANE & HIGHER FRACTION	0.435
GROSS BTU/CU FT @ 60F & 14.7 PSIA(DRY BASIS)	1221.
SPECIFIC GRAVITY (CALCULATED FROM ANALYSIS)	0.707
SPECIFIC GRAVITY (MEASURED)	0.705

REMARKS: When sampled, well flowing to burn pit, by-passing separator at approximately 150-200 MCF/D rate.

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. BOX 2794
CASPER, WYOMING 82601

GAS ANALYSIS REPORT

COMPANY: Exxon Company, U.S.A.
WELL NO. : Wilkin Ridge Unit #1
FIELD: Nine Mile (Wildcat)
COUNTY: Duchesne
STATE: Utah
LINE PRESSURE: 100 PSIG
TEMPERATURE: - DEGREES F

DATE: January 14, 1975 LAB. NO. 14933
LOCATION: SE NW 29-10S-17E
FORMATION: Mesa Verde
DEPTH: Perforated (48) @ 10,535-12,130'
SAMPLING POINT: Production gas
SAMPLE PRESSURE: 100 PSIG
CONTAINER NO. theirs

Sample #N-4, Sampled 1-6-75 at 9:30a.m. by E. G. Hays
Sampled at Riser Piping Upstream of Low pressure separator on test unit.

COMPONENT	MOLE % OR VOLUME %	GALLONS PER MCF
OXYGEN	0.00	
NITROGEN	0.10	
CARBON DIOXIDE	1.12	
HYDROGEN SULFIDE	0.00	
METHANE	82.47	
ETHANE	10.81	
PROPANE	3.49	0.957
ISO-BUTANE	0.70	0.228
N-BUTANE	0.64	0.202
ISO-PENTANE	0.20	0.073
N-PENTANE	0.12	0.043
HEXANES & HIGHER	0.35	0.161
TOTAL	100.00	1.664

GPM OF PENTANE & HIGHER FRACTION..... 0.277

GROSS BTU/CU FT @ 60F & 14.7 PSIA(DRY BASIS).. 1189.
SPECIFIC GRAVITY (CALCULATED FROM ANALYSIS)... 0.687
SPECIFIC GRAVITY (MEASURED)..... 0.686

REMARKS: Flowing gas to test separator, to clean well after Breakdown of perf's. with KCl water, and prior to massive frac. Job.; 3 days since use of N_2 to lift load water from well. Shut in the flare line at separator a few minutes to build pressure for 100psi sample.

CL1-51 (REV. 1966)

CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER Exxon Company, U.S.A.
OPERATOR Exxon Company, U.S.A.
WELL NO. Wilkin Ridge Unit No. 1
FIELD Wildcat(Nine Mile)
COUNTY Duchesne
STATE Utah

LAB NO. 14957 REPORT NO.
LOCATION Sec. 29-10S-17E
FORMATION
INTERVAL
SAMPLE FROM Water storage tanks on location
DATE January 21,1975 prior to massive frac (1-7-75)

REMARKS & CONCLUSIONS: Pink water, gelled appearance.

Sampled as known gelled KCl frac water.

Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	2799	121.76	Sulfate	1300	27.04
Potassium	3915	100.22	Chloride	6700	188.94
Lithium			Carbonate	0	-
Calcium	0	-	Bicarbonate	366	6.00
Magnesium	0	-	Hydroxide		
Iron			Hydrogen sulfide		
Total Cations		221.98	Total Anions		221.98

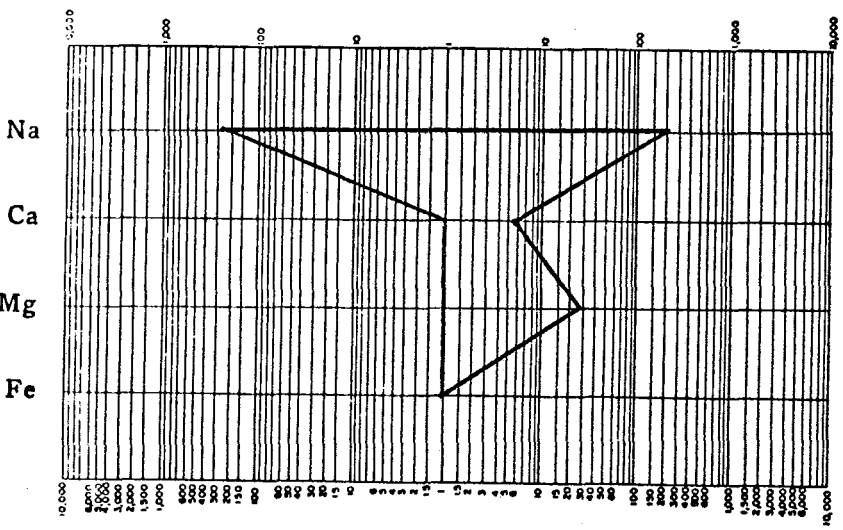
Total dissolved solids, mg/l 14894
NaCl equivalent, mg/l 14163
Observed pH 6.3

Specific resistance @ 68° F.:
Observed 0.47 ohm-meters
Calculated 0.46 ohm-meters

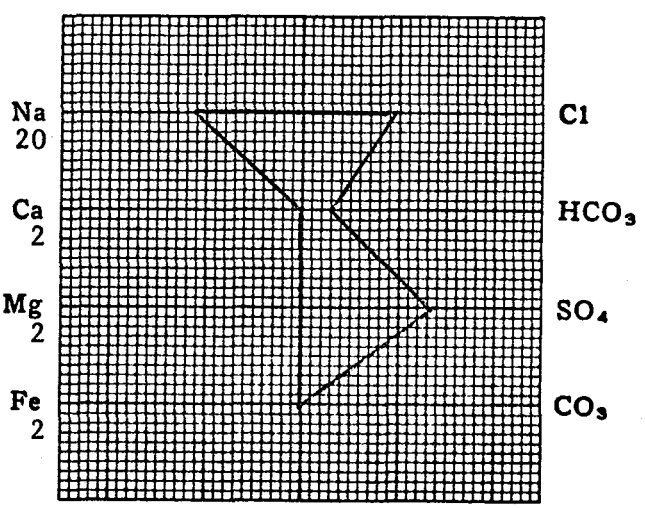
WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC



STANDARD



(Na value in above graphs includes Na, K, and Li)
NOTE: Mg/l=Milligrams per liter. Meq/l=Milligram equivalents per liter
Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming 82601

GAS ANALYSIS REPORT

Company Exxon Company, U.S.A. Date February 18, 1975 Lab. No. 15267-1
Well No. Wilkin Ridge Unit No. 1 Location SE NW 29-10S-17E
Field Ninemile (Wildcat) Formation Mesaverde
County Duchesne Depth Perf's. (10535-12130) 48 holes
State Utah Sampling point Separator sample
Line pressure 90 psig; Sample pressure 90 psig; Temperature 70 ° F; Container number theirs
Remarks Sample # N-9, Sample caught just upstream of Stooksberry's low pressure separator on test unit. Sampled 1-24-75 by Stooksberry Tester. Submitted by E.G. Hays.

Component	Mole % or Volume %	Gallons per MCF
Oxygen	0	
Nitrogen	0.09	
Carbon dioxide	0.89	
Hydrogen sulfide	0	
Methane	81.17	
Ethane	10.93	
Propane	3.77	1.034
Iso-butane	0.75	0.245
N-butane	0.93	0.293
Iso-pentane	0.29	0.106
N-pentane	0.38	0.137
Hexanes & higher	0.80	0.368
Total	100.00	2.183

GPM of pentanes & higher fraction 0.611

Gross btu/cu. ft. @60° F. & 14.7 psia (dry basis) 1235
Specific gravity (calculated from analysis) 0.713
Specific gravity (measured) 0.715

Remarks: When sampled, well flowing to separator and test tanks at rate of approx. 300 MCF/D, plus about 75 BPD oil and water (approx. 5600 bbl. frac fluid remaining to be recovered.)

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming 82601

CRUDE OIL ANALYSIS REPORT

Company	Exxon Company, U.S.A.	Date	February 20, 1975 Lab. No. 15267-2
Well No.	Wilkin Ridge Unit No. 1	Location	SE NW 29-10S-17E
Field	Ninemile (Wildcat)	Formation	Mesaverde
County	Duchesne	Depth	10535-12130 perforations
State	Utah	Analyzed by	Staff

Sample taken February 7, 1975 from low pressure separator
Sample N-10

GENERAL CHARACTERISTICS

Specific gravity @ 60/60 °F.	0.7813
A.P.I. gravity @ 60 °F.	49.6
Saybolt Universal Viscosity @ 70°F., seconds	34.0
Saybolt Universal Viscosity @ 100°F., seconds	30.5
B. s. and water, % by volume	55 (Note: Water portion
Pour point, °F.	below zero. was analyzed as
Total sulphur, % by weight	0.11 Sample N-11)

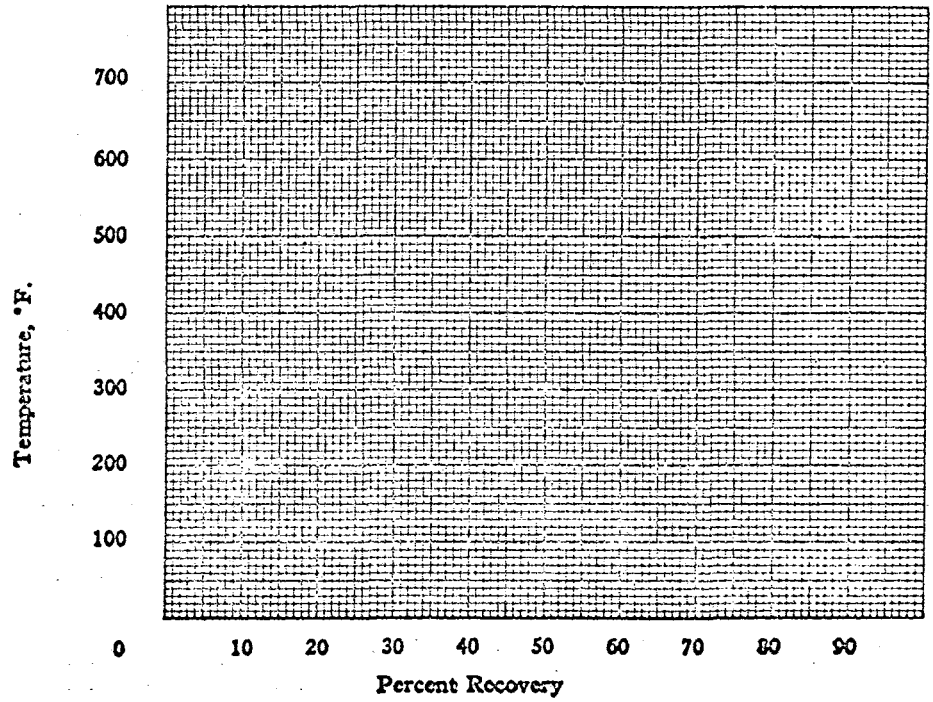
REMARKS: We were unable to make distillation due to priming and foaming caused by gas in solution in the oil sample.

ENGLER DISTILLATION

Recovery, %	Temperature, °F.
IBP	
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
E.P.	

Recovery, % _____
Residue, % _____
Loss, % _____

DISTILLATION GRAPH



Approximate Recovery

300 EP gasoline, % _____
392 EP gasoline, % _____
500 EP distillate, % _____

CL1-12A (REV. 1964)

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR Exxon Company, U.S.A. DATE February 21, 1975 LAB NO. 15267-3
WELL NO. Wilkin Ridge Unit #1 LOCATION SE NW 29-10S-17E
FIELD Ninemile (Wildcat) FORMATION Mesaverde
COUNTY Duchesne INTERVAL 10535-12130
STATE Utah SAMPLE FROM Low Pressure saparator

REMARKS & CONCLUSIONS: Sample N-11 (February 7, 1975)

Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	12479	542.82	Sulfate	500	10.40
Potassium	750	19.20	Chloride	22400	631.68
Lithium			Carbonate	0	-
Calcium	1547	77.20	Bicarbonate	427	7.00
Magnesium	120	9.86	Hydroxide		
Iron	-		Hydrogen sulfide	-	
Total Cations		649.08	Total Anions		649.08

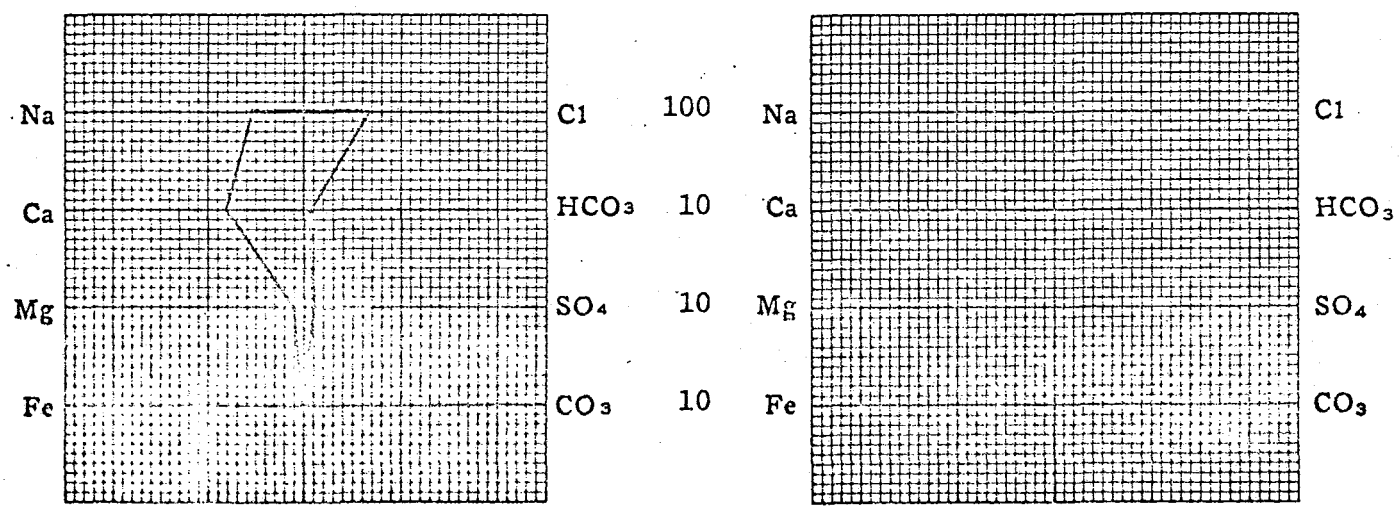
Total dissolved solids, mg/l 38006
NaCl equivalent, mg/l 37704
Observed pH 6.8

Specific resistance @ 68°F.:
Observed 0.20 ohm-meters
Calculated 0.19 ohm-meters

WATER ANALYSIS PATTERN

Sample above described

Scale
MEQ per Unit



(Na value in above graphs includes Na, K, and Li)
NOTE: Mg/l = Milligrams per liter Meq/l = Milligram equivalents per liter
Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

JOB NUMBER
SPG-11251

DATE OF JOB
MARCH 1, 1975-MARCH 7, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

EXXON U.S.A.

APR 10 1975

WELL NUMBER	WILKIN RIDGE UNIT NO. 1
FIELD/LEASE	NINE MILE CANYON
COUNTY/PARISH	DUCHESNE
STATE	UTAH
TYPE OF TEST	STATIC TEST
REFERENCE ELEV	KELLY BUSHING

ADDITIONAL INFORMATION

GAUGE NO. 166 SET AT 10,463 FEET WITH 8,000 LB. ELEMENT

WELL SHUT-IN @ 2300 HRS. ON MARCH 1, 1975

RETRIEVED GAUGES @ 1158 HRS. ON MARCH 7, 1975

WELL PERFORATIONS ARE FROM 10535 FEET TO 12,130 FEET IN SELECTED ZONES.

PRESSURE AT BEGINING OF SHUT-IN TEST WAS 887.15? P.S.I.

PRESSURE AT END OF SHUT-IN TEST WAS 3285.82* P.S.I.

DATUM IS 11,000 FEET KB.

* This is the pressure at end of first "run" (gauges pulled after 133-hour shut-in). Gauges were re-set for additional period of measurement of BHP build-up.

71 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11251

DATE OF JOB
MARCH 1, 1975-MARCH 7, 1975

GAUGE/RUN NUMBER
GAUGE NO 166 RUN NO. 1

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	788.117	13	47	MAR 01,1975	ON BOTTON AND
0.132	798.706	13	55	MAR 01,1975	RELEASED OFF
0.264	808.366	14	03	MAR 01,1975	GAUGES WELL
0.395	818.397	14	11	MAR 01,1975	FLOWING
0.527	828.801	14	19	MAR 01,1975	
0.659	837.718	14	27	MAR 01,1975	
0.791	847.006	14	34	MAR 01,1975	
0.922	856.666	14	42	MAR 01,1975	
1.054	866.327	14	50	MAR 01,1975	
1.186	874.129	14	58	MAR 01,1975	
1.318	883.046	15	06	MAR 01,1975	
1.449	891.777	15	14	MAR 01,1975	
1.581	900.694	15	22	MAR 01,1975	
1.713	907.196	15	30	MAR 01,1975	
1.845	914.070	15	38	MAR 01,1975	
1.976	919.829	15	46	MAR 01,1975	
2.108	927.260	15	53	MAR 01,1975	
2.240	934.691	16	01	MAR 01,1975	
2.372	942.865	16	09	MAR 01,1975	
2.503	949.552	16	17	MAR 01,1975	
2.635	952.896	16	25	MAR 01,1975	
2.767	956.054	16	33	MAR 01,1975	
2.899	957.912	16	41	MAR 01,1975	
3.030	961.628	16	49	MAR 01,1975	
3.162	967.201	16	57	MAR 01,1975	
3.294	968.315	17	05	MAR 01,1975	
3.426	963.485	17	13	MAR 01,1975	
3.557	957.355	17	20	MAR 01,1975	
3.689	950.853	17	28	MAR 01,1975	
3.821	942.122	17	36	MAR 01,1975	
3.953	933.762	17	44	MAR 01,1975	
4.084	920.386	17	52	MAR 01,1975	
4.216	901.809	18	00	MAR 01,1975	
4.348	880.817	18	08	MAR 01,1975	
4.480	859.453	18	16	MAR 01,1975	
4.611	832.888	18	24	MAR 01,1975	
4.743	807.065	18	32	MAR 01,1975	
4.875	776.970	18	39	MAR 01,1975	
5.007	745.946	18	47	MAR 01,1975	
5.138	718.266	18	55	MAR 01,1975	

JOB NUMBER
SPG-11251

DATE OF JOB
MARCH 1, 1975-MARCH 7, 1975

GAUGE/RUN NUMBER
GAUGE NO 166 RUN NO. 1

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
5.270	695.231	19	03	MAR 01,1975	
5.402	674.610	19	11	MAR 01,1975	
5.534	658.819	19	19	MAR 01,1975	
5.665	646.744	19	27	MAR 01,1975	
5.797	640.799	19	35	MAR 01,1975	
5.929	636.341	19	43	MAR 01,1975	
6.061	636.155	19	51	MAR 01,1975	
6.192	640.614	19	59	MAR 01,1975	
6.324	647.301	20	06	MAR 01,1975	
6.456	657.147	20	14	MAR 01,1975	
6.588	667.736	20	22	MAR 01,1975	
6.719	679.626	20	30	MAR 01,1975	
6.851	691.887	20	38	MAR 01,1975	
6.983	704.891	20	46	MAR 01,1975	
7.115	719.009	20	54	MAR 01,1975	
7.246	734.057	21	02	MAR 01,1975	
7.378	747.990	21	10	MAR 01,1975	
7.510	761.180	21	18	MAR 01,1975	
7.642	774.184	21	25	MAR 01,1975	
7.773	786.816	21	33	MAR 01,1975	
7.905	798.334	21	41	MAR 01,1975	
8.037	807.994	21	49	MAR 01,1975	
8.169	818.212	21	57	MAR 01,1975	
8.300	827.129	22	05	MAR 01,1975	
8.432	835.303	22	13	MAR 01,1975	
8.564	843.105	22	21	MAR 01,1975	
8.696	852.022	22	29	MAR 01,1975	
8.827	861.311	22	37	MAR 01,1975	
8.959	868.927	22	45	MAR 01,1975	
9.091	877.287	22	52	MAR 01,1975	
9.223	886.947	23	00	MAR 01,1975	END OF FLOW

$\frac{9.223}{70} \times 60 = 7.9054$

71 POINTS REPORTED THIS RUN

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	886.947	23	00	MAR 01,1975	WELL SHUT-IN
0.132	896.236	23	08	MAR 01,1975	
0.264	905.710	23	16	MAR 01,1975	
0.395	928.003	23	24	MAR 01,1975	
0.527	949.738	23	32	MAR 01,1975	
0.659	970.173	23	40	MAR 01,1975	
0.791	989.122	23	47	MAR 01,1975	
0.922	1004.912	23	55	MAR 01,1975	
1.054	1018.845	00	03	MAR 02,1975	
1.186	1032.035	00	11	MAR 02,1975	
1.318	1047.083	00	19	MAR 02,1975	
1.449	1062.688	00	27	MAR 02,1975	
1.581	1077.364	00	35	MAR 02,1975	
1.713	1091.296	00	43	MAR 02,1975	
1.845	1104.672	00	51	MAR 02,1975	
1.976	1119.348	00	59	MAR 02,1975	
2.108	1133.281	01	06	MAR 02,1975	
2.240	1147.771	01	14	MAR 02,1975	
2.372	1160.218	01	22	MAR 02,1975	
2.503	1172.107	01	30	MAR 02,1975	
2.635	1183.068	01	38	MAR 02,1975	
2.767	1193.843	01	46	MAR 02,1975	
2.899	1205.175	01	54	MAR 02,1975	
3.030	1216.135	02	02	MAR 02,1975	
3.162	1226.910	02	10	MAR 02,1975	
3.294	1237.499	02	18	MAR 02,1975	
3.426	1248.088	02	26	MAR 02,1975	
3.557	1258.120	02	33	MAR 02,1975	
3.689	1268.709	02	41	MAR 02,1975	
3.821	1278.740	02	49	MAR 02,1975	
3.953	1288.401	02	57	MAR 02,1975	
4.084	1298.061	03	05	MAR 02,1975	
4.216	1307.349	03	13	MAR 02,1975	
4.348	1317.009	03	21	MAR 02,1975	
4.480	1325.926	03	29	MAR 02,1975	
4.611	1334.843	03	37	MAR 02,1975	
4.743	1344.132	03	45	MAR 02,1975	
4.875	1353.235	03	52	MAR 02,1975	
5.007	1362.338	04	00	MAR 02,1975	
5.138	1371.255	04	08	MAR 02,1975	

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
5.270	1379.986	04	16	MAR 02,1975	
5.402	1389.275	04	24	MAR 02,1975	
5.534	1397.449	04	32	MAR 02,1975	
5.665	1405.808	04	40	MAR 02,1975	
5.797	1414.354	04	48	MAR 02,1975	
5.929	1422.714	04	56	MAR 02,1975	
6.061	1431.073	05	04	MAR 02,1975	
6.192	1439.433	05	12	MAR 02,1975	
6.324	1447.421	05	19	MAR 02,1975	
6.456	1455.224	05	27	MAR 02,1975	
6.588	1463.398	05	35	MAR 02,1975	
6.719	1471.014	05	43	MAR 02,1975	
6.851	1478.631	05	51	MAR 02,1975	
6.983	1486.433	05	59	MAR 02,1975	
7.115	1494.236	06	07	MAR 02,1975	
7.246	1501.109	06	15	MAR 02,1975	
7.378	1508.912	06	23	MAR 02,1975	
7.510	1515.785	06	31	MAR 02,1975	
7.642	1523.774	06	38	MAR 02,1975	
7.773	1531.390	06	46	MAR 02,1975	
7.905	1538.264	06	54	MAR 02,1975	
8.037	1545.323	07	02	MAR 02,1975	
8.169	1552.197	07	10	MAR 02,1975	
8.300	1558.699	07	18	MAR 02,1975	
8.432	1565.572	07	26	MAR 02,1975	
8.564	1573.003	07	34	MAR 02,1975	
8.696	1579.877	07	42	MAR 02,1975	
8.827	1586.379	07	50	MAR 02,1975	
8.959	1592.509	07	58	MAR 02,1975	
9.091	1599.383	08	05	MAR 02,1975	
9.223	1605.328	08	13	MAR 02,1975	
9.354	1612.201	08	21	MAR 02,1975	
9.486	1618.517	08	29	MAR 02,1975	
9.618	1624.648	08	37	MAR 02,1975	
9.750	1630.778	08	45	MAR 02,1975	
9.881	1636.723	08	53	MAR 02,1975	
10.013	1642.668	09	01	MAR 02,1975	
10.145	1648.241	09	09	MAR 02,1975	
10.277	1654.186	09	17	MAR 02,1975	
10.408	1659.759	09	24	MAR 02,1975	

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
10.540	1665.518	09	32	MAR 02,1975	
10.672	1670.719	09	40	MAR 02,1975	
10.804	1676.292	09	48	MAR 02,1975	
10.935	1681.866	09	56	MAR 02,1975	
11.067	1687.067	10	04	MAR 02,1975	
11.199	1692.269	10	12	MAR 02,1975	
11.331	1697.842	10	20	MAR 02,1975	
11.462	1703.044	10	28	MAR 02,1975	
11.594	1708.245	10	36	MAR 02,1975	
11.726	1713.633	10	44	MAR 02,1975	
11.858	1718.648	10	51	MAR 02,1975	
11.989	1724.222	10	59	MAR 02,1975	
12.121	1729.423	11	07	MAR 02,1975	
12.253	1734.811	11	15	MAR 02,1975	
12.385	1740.384	11	23	MAR 02,1975	
12.516	1745.585	11	31	MAR 02,1975	
12.648	1750.787	11	39	MAR 02,1975	
12.780	1755.803	11	47	MAR 02,1975	
12.912	1760.447	11	55	MAR 02,1975	
13.043	1765.277	12	03	MAR 02,1975	
13.175	1770.479	12	10	MAR 02,1975	
13.307	1775.309	12	18	MAR 02,1975	
13.439	1779.767	12	26	MAR 02,1975	
13.570	1784.226	12	34	MAR 02,1975	
13.702	1789.428	12	42	MAR 02,1975	
13.834	1794.258	12	50	MAR 02,1975	
13.966	1798.902	12	58	MAR 02,1975	
14.097	1803.732	13	06	MAR 02,1975	
14.229	1808.562	13	14	MAR 02,1975	
14.361	1813.392	13	22	MAR 02,1975	
14.493	1818.408	13	30	MAR 02,1975	
14.624	1823.052	13	37	MAR 02,1975	
14.756	1827.325	13	45	MAR 02,1975	
14.888	1832.155	13	53	MAR 02,1975	
15.020	1836.242	14	01	MAR 02,1975	
15.151	1840.886	14	09	MAR 02,1975	
15.283	1845.159	14	17	MAR 02,1975	
15.415	1849.246	14	25	MAR 02,1975	
15.547	1853.705	14	33	MAR 02,1975	
15.678	1857.792	14	41	MAR 02,1975	

JOB NUMBER

DATE OF JOI

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUI
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
15.810	1862.250	14	49	MAR 02,1975	
15.942	1866.523	14	57	MAR 02,1975	
16.074	1870.610	15	04	MAR 02,1975	
16.205	1874.697	15	12	MAR 02,1975	
16.337	1878.598	15	20	MAR 02,1975	
16.469	1882.871	15	28	MAR 02,1975	
16.601	1887.329	15	36	MAR 02,1975	
16.732	1891.788	15	44	MAR 02,1975	
16.864	1895.318	15	52	MAR 02,1975	
16.996	1899.219	16	00	MAR 02,1975	
17.128	1903.492	16	08	MAR 02,1975	
17.259	1907.579	16	16	MAR 02,1975	
17.391	1911.480	16	23	MAR 02,1975	
17.523	1915.567	16	31	MAR 02,1975	
17.655	1919.839	16	39	MAR 02,1975	
17.786	1923.926	16	47	MAR 02,1975	
17.918	1927.642	16	55	MAR 02,1975	
18.050	1931.729	17	03	MAR 02,1975	
18.182	1935.816	17	11	MAR 02,1975	
18.313	1939.717	17	19	MAR 02,1975	
18.445	1943.804	17	27	MAR 02,1975	
18.577	1947.891	17	35	MAR 02,1975	
18.709	1951.421	17	43	MAR 02,1975	
18.840	1955.322	17	50	MAR 02,1975	
18.972	1959.223	17	58	MAR 02,1975	
19.104	1963.124	18	06	MAR 02,1975	
19.236	1967.026	18	14	MAR 02,1975	
19.367	1970.927	18	22	MAR 02,1975	
19.499	1975.014	18	30	MAR 02,1975	
19.631	1978.915	18	38	MAR 02,1975	
19.763	1982.630	18	46	MAR 02,1975	
19.894	1986.346	18	54	MAR 02,1975	
20.026	1990.247	19	02	MAR 02,1975	
20.158	1993.777	19	09	MAR 02,1975	
20.290	1997.492	19	17	MAR 02,1975	
20.421	2001.393	19	25	MAR 02,1975	
20.553	2005.109	19	33	MAR 02,1975	
20.685	2009.010	19	41	MAR 02,1975	
20.817	2012.725	19	49	MAR 02,1975	
20.948	2016.441	19	57	MAR 02,1975	

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
21.080	2019.971	20	05	MAR 02,1975	
21.212	2023.500	20	13	MAR 02,1975	
21.344	2027.030	20	21	MAR 02,1975	
21.475	2030.745	20	29	MAR 02,1975	
21.607	2034.461	20	36	MAR 02,1975	
21.739	2037.619	20	44	MAR 02,1975	
21.871	2041.334	20	52	MAR 02,1975	
22.002	2045.421	21	00	MAR 02,1975	
22.134	2048.765	21	08	MAR 02,1975	
22.266	2052.109	21	16	MAR 02,1975	
22.398	2055.639	21	24	MAR 02,1975	
22.529	2058.983	21	32	MAR 02,1975	
22.661	2062.512	21	40	MAR 02,1975	
22.793	2065.856	21	48	MAR 02,1975	
22.925	2069.014	21	55	MAR 02,1975	
23.056	2072.730	22	03	MAR 02,1975	
23.188	2076.074	22	11	MAR 02,1975	
23.320	2079.789	22	19	MAR 02,1975	
23.452	2083.133	22	27	MAR 02,1975	
23.583	2086.663	22	35	MAR 02,1975	
23.715	2090.564	22	43	MAR 02,1975	
23.847	2093.908	22	51	MAR 02,1975	
23.979	2097.066	22	59	MAR 02,1975	
24.242	2103.754	23	15	MAR 02,1975	
24.506	2110.627	23	30	MAR 02,1975	
24.769	2117.501	23	46	MAR 02,1975	
25.033	2124.189	00	02	MAR 03,1975	
25.296	2127.718	00	18	MAR 03,1975	
25.560	2134.778	00	34	MAR 03,1975	
25.823	2141.651	00	49	MAR 03,1975	
26.087	2148.153	01	05	MAR 03,1975	
26.350	2154.841	01	21	MAR 03,1975	
26.614	2161.157	01	37	MAR 03,1975	
26.877	2167.845	01	53	MAR 03,1975	
27.141	2174.533	02	08	MAR 03,1975	
27.404	2180.663	02	24	MAR 03,1975	
27.668	2186.794	02	40	MAR 03,1975	
27.931	2193.296	02	56	MAR 03,1975	
28.195	2199.798	03	12	MAR 03,1975	
28.458	2206.114	03	27	MAR 03,1975	

$\frac{23.979}{18} \times 60 = 79052$

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
28.722	2212.616	03	43	MAR 03,1975	
28.985	2218.747	03	59	MAR 03,1975	
29.249	2224.320	04	15	MAR 03,1975	
29.512	2230.450	04	31	MAR 03,1975	
29.776	2236.581	04	47	MAR 03,1975	
30.039	2243.083	05	02	MAR 03,1975	
30.303	2249.027	05	18	MAR 03,1975	
30.566	2255.529	05	34	MAR 03,1975	
30.830	2261.660	05	50	MAR 03,1975	
31.093	2267.976	06	06	MAR 03,1975	
31.357	2273.549	06	21	MAR 03,1975	
31.620	2280.051	06	37	MAR 03,1975	
31.884	2285.996	06	53	MAR 03,1975	
32.147	2291.941	07	09	MAR 03,1975	
32.411	2297.514	07	25	MAR 03,1975	
32.674	2303.087	07	40	MAR 03,1975	
32.938	2308.846	07	56	MAR 03,1975	
33.201	2314.419	08	12	MAR 03,1975	
33.465	2319.435	08	28	MAR 03,1975	
33.728	2324.822	08	44	MAR 03,1975	
33.992	2329.652	08	59	MAR 03,1975	
34.255	2334.483	09	15	MAR 03,1975	
34.519	2339.313	09	31	MAR 03,1975	
34.782	2343.957	09	47	MAR 03,1975	
35.046	2348.787	10	03	MAR 03,1975	
35.309	2353.803	10	19	MAR 03,1975	
35.573	2358.819	10	34	MAR 03,1975	
35.836	2363.091	10	50	MAR 03,1975	
36.100	2367.736	11	06	MAR 03,1975	
36.363	2372.194	11	22	MAR 03,1975	
36.627	2376.653	11	38	MAR 03,1975	
36.890	2380.926	11	53	MAR 03,1975	
37.154	2385.756	12	09	MAR 03,1975	
37.417	2390.028	12	25	MAR 03,1975	
37.681	2394.858	12	41	MAR 03,1975	
37.944	2398.945	12	57	MAR 03,1975	
38.208	2403.218	13	12	MAR 03,1975	
38.471	2407.305	13	28	MAR 03,1975	
38.735	2411.206	13	44	MAR 03,1975	
38.998	2415.108	14	00	MAR 03,1975	

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
39.262	2419.009	14	16	MAR 03,1975	
39.525	2422.538	14	32	MAR 03,1975	
39.789	2426.625	14	47	MAR 03,1975	
40.052	2430.898	15	03	MAR 03,1975	
40.316	2434.985	15	19	MAR 03,1975	
40.579	2438.143	15	35	MAR 03,1975	
40.843	2442.416	15	51	MAR 03,1975	
41.106	2446.131	16	06	MAR 03,1975	
41.370	2449.290	16	22	MAR 03,1975	
41.633	2453.005	16	38	MAR 03,1975	
41.897	2456.535	16	54	MAR 03,1975	
42.160	2460.064	17	10	MAR 03,1975	
42.424	2463.780	17	25	MAR 03,1975	
42.687	2467.124	17	41	MAR 03,1975	
42.951	2470.653	17	57	MAR 03,1975	
43.214	2474.183	18	13	MAR 03,1975	
43.478	2477.713	18	29	MAR 03,1975	
43.741	2480.871	18	44	MAR 03,1975	
44.005	2484.400	19	00	MAR 03,1975	
44.268	2487.559	19	16	MAR 03,1975	
44.532	2491.088	19	32	MAR 03,1975	
44.795	2494.246	19	48	MAR 03,1975	
45.059	2497.219	20	04	MAR 03,1975	
45.322	2500.191	20	19	MAR 03,1975	
45.586	2503.535	20	35	MAR 03,1975	
45.849	2507.065	20	51	MAR 03,1975	
46.113	2510.409	21	07	MAR 03,1975	
46.376	2513.567	21	23	MAR 03,1975	
46.640	2516.911	21	38	MAR 03,1975	
46.903	2520.069	21	54	MAR 03,1975	
47.167	2523.227	22	10	MAR 03,1975	
47.430	2526.571	22	26	MAR 03,1975	
47.694	2529.729	22	42	MAR 03,1975	
47.957	2532.701	22	57	MAR 03,1975	
48.221	2536.045	23	13	MAR 03,1975	
48.484	2539.575	23	29	MAR 03,1975	
48.748	2542.547	23	45	MAR 03,1975	
49.011	2545.705	00	01	MAR 04,1975	
49.275	2548.863	00	16	MAR 04,1975	
49.538	2551.836	00	32	MAR 04,1975	

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
49.802	2554.808	00	48	MAR 04,1975	
50.065	2558.152	01	04	MAR 04,1975	
50.329	2560.939	01	20	MAR 04,1975	
50.592	2564.097	01	36	MAR 04,1975	
50.856	2567.069	01	51	MAR 04,1975	
51.119	2570.413	02	07	MAR 04,1975	
51.383	2573.385	02	23	MAR 04,1975	
51.646	2576.358	02	39	MAR 04,1975	
51.910	2579.516	02	55	MAR 04,1975	
52.173	2582.302	03	10	MAR 04,1975	
52.437	2585.460	03	26	MAR 04,1975	
52.700	2588.619	03	42	MAR 04,1975	
52.964	2591.591	03	58	MAR 04,1975	
53.227	2594.563	04	14	MAR 04,1975	
53.491	2597.907	04	29	MAR 04,1975	
53.754	2600.694	04	45	MAR 04,1975	
54.018	2603.666	05	01	MAR 04,1975	
54.281	2607.196	05	17	MAR 04,1975	
54.545	2610.354	05	33	MAR 04,1975	
54.808	2613.698	05	48	MAR 04,1975	
55.072	2616.670	06	04	MAR 04,1975	
55.335	2620.014	06	20	MAR 04,1975	
55.599	2622.615	06	36	MAR 04,1975	
55.862	2625.773	06	52	MAR 04,1975	
56.126	2628.560	07	08	MAR 04,1975	
56.389	2631.346	07	23	MAR 04,1975	
56.653	2634.319	07	39	MAR 04,1975	
56.916	2637.105	07	55	MAR 04,1975	
57.180	2640.077	08	11	MAR 04,1975	
57.443	2643.421	08	27	MAR 04,1975	
57.707	2646.208	08	42	MAR 04,1975	
57.970	2649.552	08	58	MAR 04,1975	
58.234	2652.153	09	14	MAR 04,1975	
58.497	2655.125	09	30	MAR 04,1975	
58.761	2658.283	09	46	MAR 04,1975	
59.024	2661.255	10	01	MAR 04,1975	
59.288	2664.414	10	17	MAR 04,1975	
59.551	2667.386	10	33	MAR 04,1975	
59.815	2670.358	10	49	MAR 04,1975	
60.078	2673.331	11	05	MAR 04,1975	

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
60.342	2675.931	11	20	MAR 04,1975	
60.605	2678.904	11	36	MAR 04,1975	
60.869	2682.062	11	52	MAR 04,1975	
61.132	2685.034	12	08	MAR 04,1975	
61.396	2688.007	12	24	MAR 04,1975	
61.659	2690.607	12	40	MAR 04,1975	
61.923	2693.580	12	55	MAR 04,1975	
62.186	2696.738	13	11	MAR 04,1975	
62.450	2699.339	13	27	MAR 04,1975	
62.713	2702.311	13	43	MAR 04,1975	
62.977	2705.283	13	59	MAR 04,1975	
63.240	2707.884	14	14	MAR 04,1975	
63.504	2710.671	14	30	MAR 04,1975	
63.767	2713.272	14	46	MAR 04,1975	
64.031	2716.244	15	02	MAR 04,1975	
64.294	2718.659	15	18	MAR 04,1975	
64.558	2721.817	15	33	MAR 04,1975	
64.821	2724.418	15	49	MAR 04,1975	
65.085	2727.204	16	05	MAR 04,1975	
65.348	2729.805	16	21	MAR 04,1975	
65.612	2732.406	16	37	MAR 04,1975	
65.875	2735.193	16	52	MAR 04,1975	
66.139	2738.165	17	08	MAR 04,1975	
66.402	2740.394	17	24	MAR 04,1975	
66.666	2742.995	17	40	MAR 04,1975	
66.929	2745.782	17	56	MAR 04,1975	
67.193	2748.197	18	12	MAR 04,1975	
67.456	2750.798	18	27	MAR 04,1975	
67.720	2753.398	18	43	MAR 04,1975	
67.983	2755.999	18	59	MAR 04,1975	
68.247	2758.600	19	15	MAR 04,1975	
68.510	2761.015	19	31	MAR 04,1975	
68.774	2763.430	19	46	MAR 04,1975	
69.037	2765.845	20	02	MAR 04,1975	
69.301	2768.446	20	18	MAR 04,1975	
69.564	2770.675	20	34	MAR 04,1975	
69.828	2773.833	20	50	MAR 04,1975	
70.091	2775.877	21	05	MAR 04,1975	
70.355	2778.478	21	21	MAR 04,1975	
70.618	2780.893	21	37	MAR 04,1975	

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
70.882	2783.865	21	53	MAR 04,1975	
71.145	2786.837	22	09	MAR 04,1975	
71.409	2789.252	22	25	MAR 04,1975	
71.672	2791.667	22	40	MAR 04,1975	
71.936	2794.268	22	56	MAR 04,1975	
72.331	2797.612	23	20	MAR 04,1975	
72.726	2801.699	23	44	MAR 04,1975	
73.121	2805.414	00	07	MAR 05,1975	
73.517	2809.130	00	31	MAR 05,1975	
73.912	2812.845	00	55	MAR 05,1975	
74.307	2816.561	01	18	MAR 05,1975	
74.702	2820.276	01	42	MAR 05,1975	
75.098	2823.620	02	06	MAR 05,1975	
75.493	2827.336	02	30	MAR 05,1975	
75.888	2831.051	02	53	MAR 05,1975	
76.283	2834.581	03	17	MAR 05,1975	
76.679	2838.110	03	41	MAR 05,1975	
77.074	2841.826	04	04	MAR 05,1975	
77.469	2845.541	04	28	MAR 05,1975	
77.864	2848.699	04	52	MAR 05,1975	
78.260	2852.601	05	16	MAR 05,1975	
78.655	2856.130	05	39	MAR 05,1975	
79.050	2859.846	06	03	MAR 05,1975	
79.445	2863.375	06	27	MAR 05,1975	
79.841	2867.277	06	50	MAR 05,1975	
80.236	2870.620	07	14	MAR 05,1975	
80.631	2874.150	07	38	MAR 05,1975	
81.026	2877.866	08	02	MAR 05,1975	
81.422	2881.581	08	25	MAR 05,1975	
81.817	2884.925	08	49	MAR 05,1975	
82.212	2888.455	09	13	MAR 05,1975	
82.607	2892.356	09	36	MAR 05,1975	
83.003	2896.071	10	00	MAR 05,1975	
83.398	2899.787	10	24	MAR 05,1975	
83.793	2903.131	10	48	MAR 05,1975	
84.188	2906.474	11	11	MAR 05,1975	
84.584	2910.376	11	35	MAR 05,1975	
84.979	2913.905	11	59	MAR 05,1975	
85.374	2917.249	12	22	MAR 05,1975	
85.769	2920.965	12	46	MAR 05,1975	

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
86.165	2924.123	13	10	MAR 05,1975	
86.560	2927.467	13	34	MAR 05,1975	
86.955	2930.811	13	57	MAR 05,1975	
87.350	2933.969	14	21	MAR 05,1975	
87.746	2937.870	14	45	MAR 05,1975	
88.141	2941.214	15	08	MAR 05,1975	
88.536	2944.372	15	32	MAR 05,1975	
88.931	2948.087	15	56	MAR 05,1975	
89.327	2951.431	16	20	MAR 05,1975	
89.722	2954.775	16	43	MAR 05,1975	
90.117	2958.119	17	07	MAR 05,1975	
90.512	2961.463	17	31	MAR 05,1975	
90.908	2964.621	17	54	MAR 05,1975	
91.303	2968.337	18	18	MAR 05,1975	
91.698	2971.866	18	42	MAR 05,1975	
92.093	2974.839	19	06	MAR 05,1975	
92.489	2978.554	19	29	MAR 05,1975	
92.884	2981.898	19	53	MAR 05,1975	
93.279	2985.242	20	17	MAR 05,1975	
93.674	2988.400	20	40	MAR 05,1975	
94.070	2991.930	21	04	MAR 05,1975	
94.465	2995.459	21	28	MAR 05,1975	
94.860	2998.989	21	52	MAR 05,1975	
95.255	3002.147	22	15	MAR 05,1975	
95.651	3005.305	22	39	MAR 05,1975	
96.046	3008.835	23	03	MAR 05,1975	
96.441	3012.364	23	26	MAR 05,1975	
96.836	3015.523	23	50	MAR 05,1975	
97.232	3018.495	00	14	MAR 06,1975	
97.627	3022.025	00	38	MAR 06,1975	
98.022	3025.369	01	01	MAR 06,1975	
98.417	3028.527	01	25	MAR 06,1975	
98.813	3031.313	01	49	MAR 06,1975	
99.208	3034.843	02	12	MAR 06,1975	
99.603	3038.187	02	36	MAR 06,1975	
99.998	3041.531	03	00	MAR 06,1975	
100.394	3044.875	03	24	MAR 06,1975	
100.789	3048.218	03	47	MAR 06,1975	
101.184	3051.562	04	11	MAR 06,1975	
101.579	3054.720	04	35	MAR 06,1975	

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
101.975	3057.879	04	58	MAR 06,1975	
102.370	3061.222	05	22	MAR 06,1975	
102.765	3064.195	05	46	MAR 06,1975	
103.160	3067.167	06	10	MAR 06,1975	
103.556	3070.325	06	33	MAR 06,1975	
103.951	3073.855	06	57	MAR 06,1975	
104.346	3076.642	07	21	MAR 06,1975	
104.741	3079.242	07	44	MAR 06,1975	
105.137	3083.701	08	08	MAR 06,1975	
105.532	3086.302	08	32	MAR 06,1975	
105.927	3089.460	08	56	MAR 06,1975	
106.322	3092.618	09	19	MAR 06,1975	
106.718	3095.962	09	43	MAR 06,1975	
107.113	3099.120	10	07	MAR 06,1975	
107.508	3101.907	10	30	MAR 06,1975	
107.903	3105.065	10	54	MAR 06,1975	
108.299	3108.037	11	18	MAR 06,1975	
108.694	3111.381	11	42	MAR 06,1975	
109.089	3113.982	12	05	MAR 06,1975	
109.484	3117.140	12	29	MAR 06,1975	
109.880	3119.926	12	53	MAR 06,1975	
110.275	3123.270	13	16	MAR 06,1975	
110.670	3126.243	13	40	MAR 06,1975	
111.065	3129.587	14	04	MAR 06,1975	
111.461	3132.373	14	28	MAR 06,1975	
111.856	3135.531	14	51	MAR 06,1975	
112.251	3138.689	15	15	MAR 06,1975	
112.646	3141.848	15	39	MAR 06,1975	
113.042	3144.820	16	02	MAR 06,1975	
113.437	3147.235	16	26	MAR 06,1975	
113.832	3150.393	16	50	MAR 06,1975	
114.227	3153.365	17	14	MAR 06,1975	
114.623	3007.349	17	37	MAR 06,1975	
115.018	3159.124	18	01	MAR 06,1975	
115.413	3161.911	18	25	MAR 06,1975	
115.808	3165.069	18	48	MAR 06,1975	
116.204	3167.670	19	12	MAR 06,1975	
116.599	3170.456	19	36	MAR 06,1975	
116.994	3173.243	20	00	MAR 06,1975	
117.389	3175.844	20	23	MAR 06,1975	

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
GAUGE NO. 166

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
117.785	3179.188	20	47	MAR 06,1975	
118.180	3181.603	21	11	MAR 06,1975	
118.575	3184.204	21	35	MAR 06,1975	
118.970	3187.919	21	58	MAR 06,1975	
119.366	3190.334	22	22	MAR 06,1975	
119.761	3192.749	22	46	MAR 06,1975	
120.156	3196.093	23	09	MAR 06,1975	
120.551	3198.880	23	33	MAR 06,1975	
120.947	3201.666	23	57	MAR 06,1975	
121.342	3204.267	00	21	MAR 07,1975	
121.737	3207.611	00	44	MAR 07,1975	
122.132	3210.769	01	08	MAR 07,1975	
122.528	3213.184	01	32	MAR 07,1975	
122.923	3216.342	01	55	MAR 07,1975	
123.318	3219.314	02	19	MAR 07,1975	
123.713	3221.358	02	43	MAR 07,1975	
124.109	3223.959	03	07	MAR 07,1975	
124.504	3226.374	03	30	MAR 07,1975	
124.899	3228.789	03	54	MAR 07,1975	
125.294	3231.018	04	18	MAR 07,1975	
125.690	3233.805	04	41	MAR 07,1975	
126.085	3237.149	05	05	MAR 07,1975	
126.480	3240.121	05	29	MAR 07,1975	
126.875	3243.279	05	53	MAR 07,1975	
127.271	3245.694	06	16	MAR 07,1975	
127.666	3248.666	06	40	MAR 07,1975	
128.061	3251.267	07	04	MAR 07,1975	
128.456	3254.611	07	27	MAR 07,1975	
128.852	3257.769	07	51	MAR 07,1975	
129.247	3260.370	08	15	MAR 07,1975	
129.642	3263.157	08	39	MAR 07,1975	
130.037	3265.757	09	02	MAR 07,1975	
130.169	3268.916	09	10	MAR 07,1975	
130.564	3271.516	09	34	MAR 07,1975	
130.960	3274.489	09	58	MAR 07,1975	
131.355	3277.461	10	21	MAR 07,1975	
131.750	3278.947	10	45	MAR 07,1975	
132.145	3279.319	11	09	MAR 07,1975	
132.541	3283.034	11	32	MAR 07,1975	
132.936	3285.821	11	56	MAR 07,1975	PULLED GAUGES

520 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11251

DATE OF JOB
MARCH 7, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

EXXON U.S.A.

WELL NUMBER	WILKINS RIDGE UNIT NO. 1
FIELD/LEASE	NINE MILE CANYON
COUNTY/PARISH	DUCHESNE
STATE	UTAH
TYPE OF TEST	GRADIENT TEST IN-RUN
REFERENCE ELEV	KELLY BUSHING

ADDITIONAL INFORMATION

GAUGE NO. 166 WITH ELEMENT NO. 32252 A 8,000 LBS. ELEMENT.

SET ON 30 SECOND MODE

IN-RUN STOPS EVERY 1000 FT. FROM 0.00 FT. TO 10,000 FT.

STOPS FROM 10,000 FT. TO 11,800 FT. EVERY 200 FT. WITH A STOP AT 10,432 FT.

OUT RUN WITH A STOP AT 10,432 FT. AND 0.00FT.

DATUM IS 11,000 FT. K.B.

0 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11251

DATE OF JOB
MARCH 7, 1975

GAUGE/RUN NUMBER
166 RUN NO. 1

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN

INRUN

GRADIANT STOP REPORT

DEPTH INTERVAL (FEET) FROM	TO	PRESSURE INTERVAL (PSI) FROM	TO	PRESSURE DIFFERENCE (PSI)	PRESSURE GRADIANT (PSI/FT)
0.00	1000.00	2344.697	2434.984	90.287	0.090
1000.00	2000.00	2434.984	2527.612	92.628	0.093
2000.00	3000.00	2527.612	2620.315	92.703	0.093
3000.00	4000.00	2620.315	2708.613	88.298	0.088
4000.00	5000.00	2708.613	2795.536	86.923	0.087
5000.00	6000.00	2795.536	2881.492	85.956	0.086
6000.00	7000.00	2881.492	2973.173	91.681	0.092
7000.00	8000.00	2973.173	3068.217	95.045	0.095
8000.00	9000.00	3068.217	3163.782	95.565	0.096
9000.00	10000.00	3163.782	3265.536	101.754	0.102
10000.00	10200.00	3265.536	3289.437	23.901	0.120
10200.00	10400.00	3289.437	3307.000	17.563	0.088
10400.00	10432.00	3307.000	3309.880	2.881	0.090
10432.00	10600.00	3309.880	3327.369	17.489	0.104
10600.00	10800.00	3327.369	3346.753	19.384	0.097
10800.00	11000.00	3346.753	3369.985	23.231	0.116
11000.00	11200.00	3369.985	3417.154	47.169	0.236
11200.00	11400.00	3417.154	3467.798	50.645	0.253
11400.00	11600.00	3467.798	3537.307	69.509	0.348
11600.00	11800.00	3537.307	3624.657	87.350	0.437

JOB NUMBER
SPG-11251

DATE OF JOB
MARCH 7, 1975

GAUGE/RUN NUMBER
166 RUN NO. 1

DATE OF RUN
MARCH 9, 1975

SPERRY-SUN

OUTRUN

GRADIANT STOP REPORT

DEPTH INTERVAL (FEET) FROM	TO	PRESSURE INTERVAL (PSI) FROM	TO	PRESSURE DIFFERENCE (PSI)	PRESSURE GRADIANT (PSI/FT)
11800.00	10432.00	3624.657	3318.560	306.098	0.224
10432.00	0.00	3318.560	2380.474	938.086	0.090

Form 9-330
(Rev. 5-63)

6

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other Wildcat

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

8. FARM OR LEASE NAME:

2. NAME OF OPERATOR: Exxon Corporation

9. WELL NO.: Exxon #1 Wilkin Ridge Unit

3. ADDRESS OF OPERATOR: P. O. Box 120, Denver, CO 80201

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2055' FWL, 1980' FNL Sec. 29, T10S, R17E SLM
At top prod. interval reported below: Same
At total depth: Same

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 29, T10S, R17E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-013-30327	July 8, 1974	Duchesne	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9-1-74	12-1-74	March 1, 1975	6193' KB	6173'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
12,390' (MD)	12180' (MD)		→	All	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Mesa Verde Sandstone 10,535 to 12,130' (MD)

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, Sonic, Density, CNL, Dipmeter, Temperature

27. WAS WELL CORED: Yes

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	64'	24"	Ready mix to surface	
8 5/8"	24# ,32#	3015'	11"	1450 Sx. Good Returns	
5 1/2"	17#, 20#	12390'	7 7/8"	1140 Sx.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8 EUE	10449'	None

31. PERFORATION RECORD (*Interval, size and number*)
Perforated 47 holes 10,535 to 12,130'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
10241-10255'	Squeezed 200 Sx. Class G cement, 15.8 ppg Max. Press 5400# TOC 1016
10535-12130'	Fractured w/388,400 gals. polymulsion & 875,000# Sd @ 25-36 BPM @ 6900 psi

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
Jan. 2, 1975	Flowing	Shut-In

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-28-75	24			15.9 Frac oil	290	19.0 Frac water	18,239

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
40-150	600-775		15.9 Frac oil	290	19 frac water	48.4

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Flared

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: Please see attached transmittal form.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [signature] TITLE Div. Drilling Manager DATE 3-21-75

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "*Sacks Cement*": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Green River	1792'	5130'	Tight sandstone, shale and limestone probably brackish water productive
Wasatch	5130'	9310'	Shale w/scattered tight sand stringers; probably water productive.
Mesa Verde	9310'	T.D.	Sand and shale; tight gas DST #1 10259-10312; open 5 min; shut-in 30 min; open 120 min, shut-in 60 min. No gas to surface. Pressures: IHP 4971, IFP 143-112, ISIP 275, FFP 138'-143, FSIP 244, FHP 4951. Core No.1 10273-312', Rec 37' shale and tight sand w/poor gas shows Core No.2 10740-10801' Rec. 61' tight sandstone w/no shows. Core No.3 11185-11231', Rec. 46' shale.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Uintah Fm.	Surface	
Green River	1792'	1792'
Wasatch	5130'	5130'
Mesa Verde	9310'	9310'

U.S. GOVERNMENT PRINTING OFFICE: 1953—O-683636
837-497

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of April, *19*75, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* [signature]

Phone (303) 761-6470 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
4/1/75-4/30/75: Well Shut In. Pressure build-up test continues. Fifth subsurface pressure measurement, since shut-in March 1, 1975, was made on April 16, 1975.										
			1	0	-	-	-	-	-	Shut-in all month.
TOTALS				0	-		-	-	-	

CONFIDENTIAL

GAS: (MCF)
Sold 0
Vented/Flared 0
Used on Lease 0
Lost 0
Reason -

OIL or CONDENSATE: (Barrels)
Sold 0
Used 0
Unavoidably Lost 0
Reason -

WATER: (Barrels)
Disposition -
Pit 0
Injected 0
Other 0

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 19 75, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* [signature]

Phone (303) 761-6470 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
5/1/75-5/31/75: Well Shut In. Fifth subsurface pressure measurement, since shut-in March 1, 1975, was made on April 16, 1975. No measurements in May 1975.										
			1	0	-	-	-	-	-	Shut-in all month.
TOTALS				0	-		-	-	-	

CONFIDENTIAL

GAS: (MCF)
Sold 0
Vented/Flared 0
Used on Lease 0
Lost 0
Reason -

OIL or CONDENSATE: (Barrels)
Sold 0
Used 0
Unavoidably Lost 0
Reason -

WATER: (Barrels)
Disposition -
Pit 0
Injected 0
Other 0

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 1975,

Agent's address P. O. Box 120
Denver, Colorado 80201

Company Exxon Corporation

Signed [signature]

Phone (303) 761-6470

Agent's title Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
6/1/75-6/30/75: Well Shut In. Fifth subsurface pressure measurement, since shut-in March 1, 1975, was made on April 16, 1975. No measurements in May nor June 1975.										
			1	0	-	-	-	-	-	Shut In all month.
TOTALS				0	-		-	-	-	

CONFIDENTIAL

GAS: (MCF)
Sold 0
Vented/Flared 0
Used on Lease 0
Lost 0
Reason -

OIL or CONDENSATE: (Barrels)
Sold 0
Used 0
Unavoidably Lost 0
Reason -

WATER: (Barrels)
Disposition -
Pit 0
Injected 0
Other 0

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of AUGUST, 1975, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation
Denver, Colorado 80201 *Signed* John T. Sprouse

Phone (303) 761-6470 *Agent's title* Supervising Engineer

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							CONFIDENTIAL
Well Shut In. Fifth subsurface pressure measurement, since shut-in March 1, 1975, was made on April 16, 1975. No measurements in May, June, July or August, 1975.										
			1	0	-	-	-	-	-	Shut In all month.
TOTALS				0	-		-	-	-	

GAS: (MCF)
Sold 0
Vented/Flared 0
Used on Lease 0
Lost 0
Reason -

OIL or CONDENSATE: (Barrels)
Sold 0
Used 0
Unavoidably Lost 0
Reason -

WATER: (Barrels)
Disposition -
Pit 0
Injected 0
Other 0

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

File Memo

Re: Exxon #1 Wilkin Ridge Unit
Duchesne County, Utah

DST No. 1 10,259-10,312'
Mesa Verde Formation
Dual Packer set from 10,250-59'
Open 5 minutes, good blow
Shut In 30 minutes
Open 120 minutes, good blow decreasing to very weak
Shut In 60 minutes.

Recovered 90' gas cut mud. There was no gas to the surface. The down hole sampler contained 1400 cc mud.

Pressures:

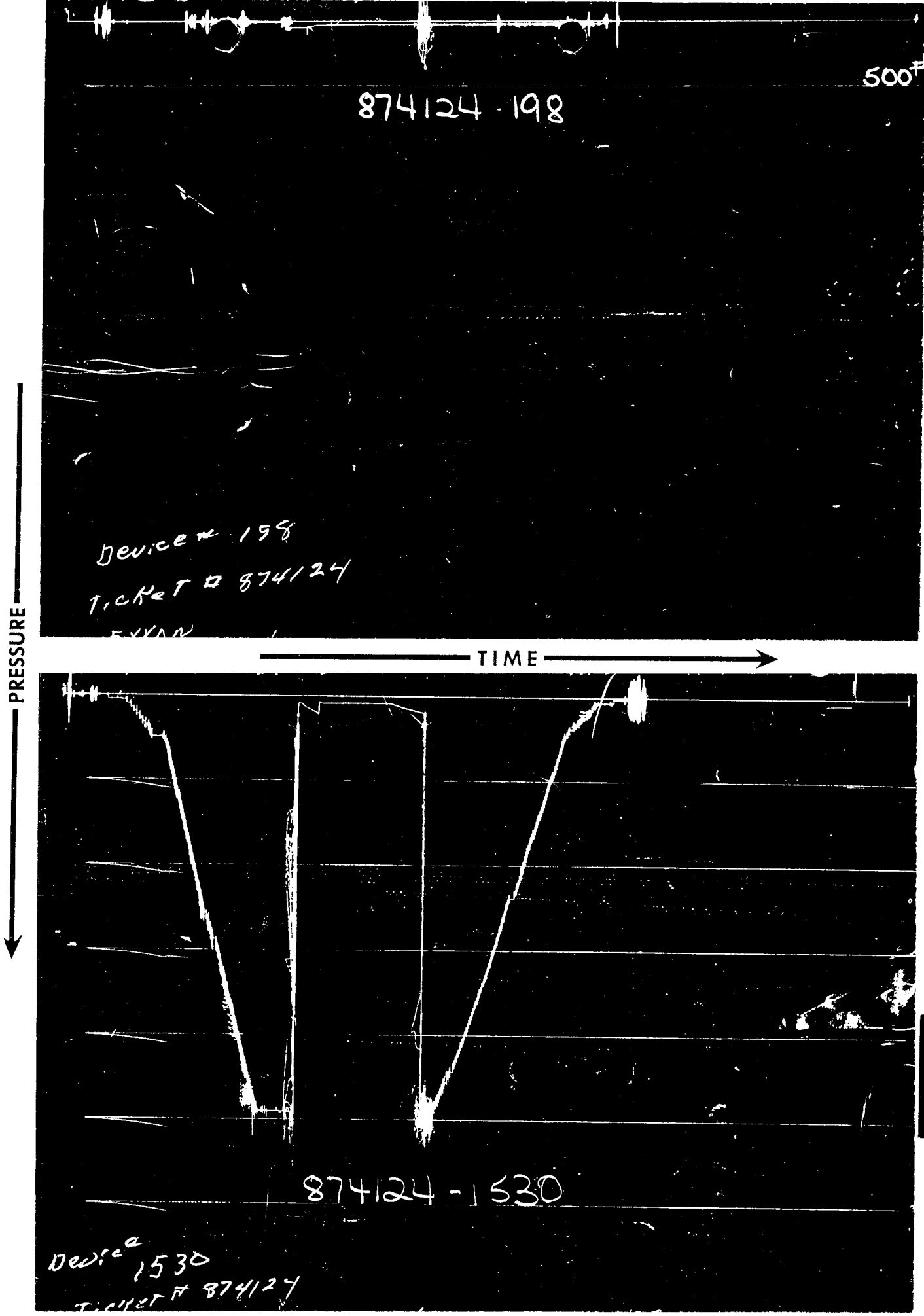
IHP	4971 psi
IFP	143-112 psi
ISIP	275 psi
FFP	138-143 psi
FSIP	244 psi
FHP	4951 psi

Temperature - mercury separated in all three thermometers.

JRS:sjg

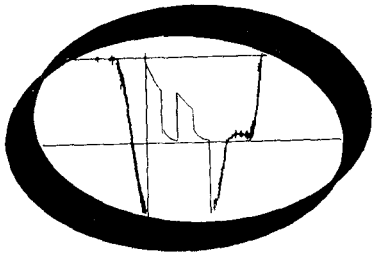
October 28, 1974

cc: Gulf Oil, Placid, Pacific Transmission Supply,
Chorney Oil, Skyline Oil, Mr. Gilman A. Hill.



Each Horizontal Line Equal to 1000 p.s.i.

Formation Testing Service Report



HALLIBURTON SERVICES

DUNCAN, OKLAHOMA

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER: Wildcat

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

2. NAME OF OPERATOR: Exxon Corporation

CONFIDENTIAL

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: P. O. Box 120, Denver, Colorado 80201

9. WELL NO.: Exxon #1 Wilkin Ridge Unit

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980 FNL, 2055 FWL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29-T10S-R17E, SLM

14. PERMIT NO.: API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6192' RDB

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	X	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS		(Other)			
(Other)							

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Verbal approval for the following proposed work including necessary venting or flaring of gas (subject to royalty, NTL-4) was received 9/2/75 from Mr. E. W. Guynn, District Engineer.

PROPOSED WORK:

1. Bleed 4750 psi SITP from well by venting or flaring gas.
2. Load well with saltwater.
3. Pull tubing.
4. Set wireline bridge plug at 11,110'±.
5. Run permanent packer and set at 10,200'±.
6. Run tubing and set in packer.
7. Perforate an additional 10-15 holes between 10,902' and 11,085'.
8. Fracture treat Mesa Verde sandstone w/80,000 gal. gelled water and 200,000 lbs. 20/40 mesh sand.
9. Test well.

The proposed work should begin on or about September 5, 1975.

Included are copies of the current wellbore schematic and the proposed wellbore schematic. Also find attached, copies of Lessee's Monthly Report of Operations for June, July, August, 1975.

18. I hereby certify that the foregoing is true and correct

SIGNED John G Sprouse TITLE Supervising Engineer DATE 9-4-75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

SPERRY - SUN
PRESSURE GAUGE FIELD DATA SHEET

JOB NO. SPG-11257 DATE 3/7/75 - 3/13/75 RUN #1 OFFICE CASPER

CUSTOMER EXXON Company U.S.A. LOCATION Wilkin Ridge

STATE Utah COUNTY/[redacted] DUCHESNE

WELL Wilkin Ridge Unit NO. 1 FIELD NINE MILE CANYON

TYPE TEST STATIC TEST DEPTH 10,441' & 10,452 ZERO POINT Tubing Hanger

USE MILITARY TIME FOR ALL TIMES

		TIME	DATE		TIME	DATE		TIME	DATE
ARRIVE: WELL/[redacted]	1.	AIREADY ON LOCATION		2.	0830	3/13/75	3.		
DEPART: WELL/[redacted]	1.	From SPG-11251		2.	1800	3/13/75	3.		
GAUGE IN LUB. RUN #	1.	1902	3/7/75	2.	1905	3/7/75	3.		
GAUGE OUT LUB. RUN #	1.	1618	3/13/75	2.	—		3.		

TOP GAUGE # 102 ELEMENT # 31631 RANGE 8000 P.S.I. TIME MODE 8 min.

BTM. GAUGE # 183 ELEMENT # 30245N RANGE 8000 P.S.I. TIME MODE 8 min.

	TIME	DATE			
TIME ON BOTTOM	1952	3/7/75	STARTING POWER 13.5 V	FLUID LEVEL	—
OFF BOTTOM	1105	3/13/75	ENDING POWER 12.5 & 6.5 V	FLUID LEVEL	—

GAUGE SET AT 10,441 / 10,452 FEET B.H. TEMPERATURE 242° F ATMOS. TEMPERATURE 38° F

DATUM 11,000 FEET KB. REF. ELEV. Kelly Bushing NO. TRIPS 1 MILES 822

	TIME	DATE				
WELL OPEN	—	—	WELL SHUT-IN	AIREADY SHUT-IN	TOTAL MILEAGE	822

LAST NULL IN LUB. 1610 hrs. SURFACE PRESSURE 3,400 PSIG

GRADIENT STOPS
3/13/75

DEPTH	OUT	TIME START	TIME STOP
10,400 / 10,200	FT.	1106 / 1125	1124 / 1143
10,000 / 9,000	FT.	1144 / 1206	1202 / 1224
8,000 / 7,000	FT.	1228 / 1250	1246 / 1310

DEPTH	OUT	TIME START	TIME STOP
6,000 / 5,000	FT.	1313 / 1336	1322 / 1354
4,000 / 3,000	FT.	1358 / 1430	1416 / 1448
2,000 / 1,000 / 0.0	FT.	1452 / 1514 / 1536	1510 / 1531 / 1554

REMARKS:

Btm. Gauge Not Running:

DON MASON
OPERATOR

WESTERN EXPLORATION DIVISION
EXXON COMPANY, U.S.A.
TRANSMITTAL FORM

To Utah Div. of Oil & Gas Conservation Comm. From J. R. Switzer

Well Exxon #1 Wilkin Ridge Unit Date April 8, 1975

Transmitted herewith are the following for the subject well:

Quantity	Item	Interval	Remarks
1	Dual Induction Log	62 to 12390'	2" & 5" scale
	Induction Electric Log		
	Sonic Log w/S.P.		
1	Sonic Log w/G.R.	3007 to 12390'	2" & 5" scale
1	Formation Density Log w/G.R.	Surf. to 3019'	2" & 5" scale
	Sidewall Neutron		
1	Neutron Density	3000 to 12390'	5" scale
1	Continuous Dipmeter	4500 to 11521	5" scale
	Continuous Dipmeter, Computed		
	Continuous Dipmeter Printout		
	Proximity-Microlog		
1	Perforating Depth Control	9000 to 12306'	5" scale
1	Cement Bond Log	9900 to 12180'	5" scale
	Cased Hole Neutron		
2	Temperature Log	2800 to 12162'	Runs 1 & 2
	Synergetic Logs		
2 sets	Mudlogs	2000' to 12390'	2" & 5" scale
	Sidewall Cores		
	Sidewall Core Description		
	Sidewall Core Analysis		
	Conventional Cores		
1 set	Core Description		3 cores
1	Core Analysis		
	Unwashed Cuttings		
	Washed & Dried Samples		
	Sample Description		
	Canned Cuttings		
1	Drill Stem Test		DST #1
1	Well Completion Report & Log		USGS Form 9-330
2	Pressure Gauge Report		
7	Laboratory Analysis Reports		3 water, 3 gas, 1 crude oil
4	Report of Water Sands		Form No. OGC-8-X

Receipt Acknowledged _____ Date _____

CONT'D

1	Sonic "F" Log	3000 to 12390'	5" scale
4	Production Logs		

Return signed receipt to: Exxon Company, U.S.A.
P. O. Box 120
Denver, Colorado 80201
Attention: Mr. John R. Switzer

CL-508

CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY EXXON COMPANY, U.S.A. FIELD WILDCAT FILE 9106 RP-2-4776

WELL NO. 1 WILKIN RIDGE UNIT COUNTY DUCHESNE DATE 11-2-74

LOCATION SE NW SEC 29-T10S-R17E STATE UTAH ELEV. 6193'KB

CORE-GAMMA CORRELATION

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG
(PATENT APPLIED FOR)

GAMMA RAY
RADIATION INCREASE →

COREGRAPH

TOTAL WATER
PERCENT TOTAL WATER
80 60 40 20 0

PERMEABILITY
MILLIDARCYS
100 50 10 5 1

POROSITY
PERCENT
10 5 0

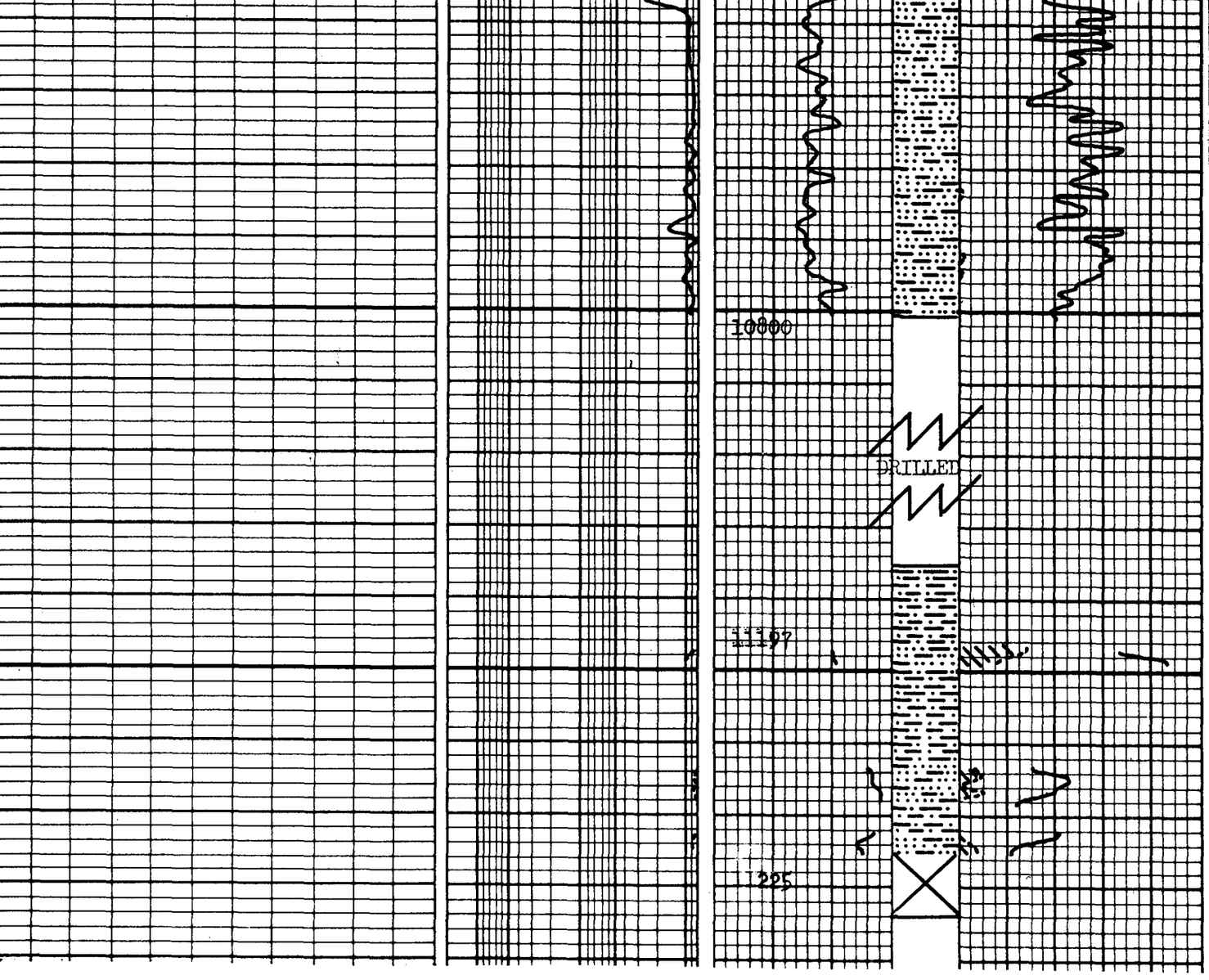
OIL SATURATION
PERCENT PORE SPACE
0 20 40 60 80

10273

10300

DRILLAND

10350



CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME AND DEPTH INTERVAL: Mesa Verde - 10,288.0 - 10,300.0 Feet

FEET OF CORE RECOVERED FROM ABOVE INTERVAL	12	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	26.5
FEET OF CORE INCLUDED IN AVERAGES	12	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE	25 (e)
AVERAGE PERMEABILITY: MILLIDARCYS	0.56	OIL GRAVITY: °API	42 plus (e)
PRODUCTVE CAPACITY: MILLIDARCY-FEET	6.74	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
AVERAGE POROSITY: PER CENT	5.6	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	1.50 (e)
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	9.85	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	217

Calculated maximum solution gas drive recovery is barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. *(Please refer to footnotes for further discussion of recovery estimates.)*

(c) Calculated (e) Estimated (m) Measured (*) Refer to attached letter

INTERPRETATION OF DATA

10,288.0 - 10,300.0 Feet - Possibility of high gas-oil ratio production after artificial stimulation. Characterized by low permeability and porosity. Best interval for completion attempt.

10,300.0 - 11,225.0 Feet - Essentially non-productive due to low permeability and porosity. Increase in water saturations and decrease in oil saturations.

These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors.

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Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Uta
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, *19* 75, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* W. A. Quiers

Phone (303) 761-6470 *Agent's title* Acting Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
9/7/75 - 9/30/75: Flowed well. Recovered 1,230.5 barrels of load oil, 1,411.0 barrels of water, and 11,593.8 Mcf of gas. Gas was flared.										
Summary of Production During Test in September 1975										
			1	28	1,230.5		11,593.8	--	1,411.0	Frac Volume Remaining to be Recovered: 1102.5 Bbls Oil
9/25/75: Ran Schlumberger - Production Logs.										

RECEIVED
OCT 10 1975
DIVISION OF OIL, GAS, & MINING

738.09(Net)Bbls of recovered frac oil

NOTE.—There were ____ runs or sales of oil; No ____ M cu. ft. of gas sold; No ____ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

892-558 U.S. GOVERNMENT PRINTING OFFICE: 1964—O-729-784

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	——
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
OF_3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF_4	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_F	= Final Flow Pressure	Psig.
P_{ot}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q_1	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	——
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

CL-511-1

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
Well NO. 1 WILKIN RIDGE UNIT Core Type DIAMOND 4" Date Report 10-28-74
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG:EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

Lithological Abbreviations

SAND-SD, SHALE-SH, LIME-LM, DOLOMITE-DOL, CHERT-CH, GYPSUM-GYP, ANHYDRITE-ANHY, CONGLOMERATE-CONG, FOSSILIFEROUS-FOSS, SANDY-SDY, SHALY-SHY, LIMY-LMY, FINE-FN, MEDIUM-MED, COARSE-CSE, CRYSTALLINE-XLN, GRAIN-GRN, GRANULAR-GRNL, BROWN-BRN, GRAY-GY, VUGGY-VGY, FRACTURED-FRAC, LAMINATION-LAM, STYLOLITIC-STY, SLIGHTLY-SL/, VERY-V/, WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
		(K_A)	*			
1	10282-83	0.09	2.7	9.2	55.3	Sd Drk Gy V/Fn Grn V/Silty Clay
2	10288-89	0.10	2.4	9.3	64.9	Sd Drk Gy V/Fn Grn V/Silty Clay
3	89-90	0.92	5.5	9.7	31.2	Sd Gy V/Fn Grn Silty Clay
4	90-91	0.14	5.5	11.4	35.7	Sd Gy V/Fn Grn Silty Clay
5	91-92	0.14	5.5	8.5	20.5	Sd Gy V/Fn Grn Silty Clay
6	92-93	0.11	6.9	10.7	18.3	Sd Gy V/Fn Grn Silty Clay
7	93-94	0.12	5.7	8.2	13.1	Sd Gy V/Fn Grn Silty Clay
8	94-95	0.13	5.1	10.9	21.8	Sd Gy V/Fn Grn Silty Clay
9	95-96	0.23	6.3	9.2	23.8	Sd Gy V/Fn Grn Silty Clay
10	96-97	1.6	6.2	9.5	21.8	Sd Gy V/Fn Grn Silty Clay
11	97-98	1.3	6.8	11.6	23.2	Sd Gy V/Fn Grn Silty Clay
12	98-99	0.65	6.7	8.9	20.4	Sd Gy V/Fn Grn Silty Clay
13	10299-00	1.3	4.8	10.3	23.6	Sd Gy V/Fn Grn Silty Clay
14	10301-02	0.11	5.9	3.6	61.5	Sd Gy V/Fn Grn Silty Clay
15	02-03	0.08	5.5	4.2	54.2	Sd Gy V/Fn Grn Silty Clay
16	10744.4	0.07	6.9	2.0	72.1	Sd Drk Gy V/Fn Grn Silty Clay
17	45.1	0.06	6.8	0.0	40.0	Sd Drk Gy V/Fn Grn Silty Clay
18	46.9	0.06	6.3	0.0	44.4	Sd Drk Gy V/Fn Grn Silty Clay
19	47.4	0.06	6.5	0.0	44.1	Sd Drk Gy V/Fn Grn Silty Clay
20	48.3	0.05	5.7	0.0	40.4	Sd Drk Gy V/Fn Grn Silty Clay
21	49.5	0.05	5.0	0.0	51.5	Sd Drk Gy V/Fn Grn Silty Clay
22	50.4	0.01	1.4	0.0	40.3	Sd Drk Gy V/Fn Grn Silty Clay
23	51.2	0.03	2.3	0.0	47.4	Sd Drk Gy V/Fn Grn Silty Clay
24	10754.4	0.07	6.5	0.0	44.4	Sd Drk Gy V/Fn Grn Silty Clay
25	55.3	0.06	4.0	0.0	63.4	Sd Drk Gy V/Fn Grn Silty Clay
26	56.5	0.28	5.1	0.0	63.8	Sd Drk Gy V/Fn Grn Silty Clay
27	57.3	0.14	7.0	0.0	48.6	Sd Drk Gy V/Fn Grn Silty Clay
28	58.1	0.11	7.0	0.0	35.4	Sd Drk Gy V/Fn Grn Silty Clay
29	59.7	0.08	7.3	0.0	50.2	Sd Drk Gy V/Fn Grn Silty Clay
30	60.2	0.07	6.8	0.0	36.3	Sd Drk Gy V/Fn Grn Silty Clay
31	61.2	0.07	6.4	0.0	65.1	Sd Drk Gy V/Fn Grn Silty Clay
32	62.8	0.06	6.4	0.0	37.2	Sd Drk Gy V/Fn Grn Silty Clay
33	63.5	0.05	5.9	0.0	55.7	Sd Drk Gy V/Fn Grn Silty Clay
34	64.1	0.04	6.1	0.0	51.1	Sd Drk Gy V/Fn Grn Silty Clay
35	65.4	0.05	7.9	0.0	47.8	Sd Drk Gy V/Fn Grn Silty Clay

* BOYLE'S LAW POROSITY - HUMIDITY CONTROLLED OVEN

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CL-511-1

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
Well NO. 1 WILKIN RIDGE UNIT Core Type DIAMOND 4" Date Report 11-2-74
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG:EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

Lithological Abbreviations

SAND-SD, SHALE-SH, LIME-LM, DOLOMITE-DOL, CHERT-CH, GYPSUM-GYP, ANHYDRITE-ANHY, CONGLOMERATE-CONG, FOSSILIFEROUS-FOSS, SANDY-SDY, SHALY-SHY, LIMY-LMY, FINE-FN, MEDIUM-MED, COARSE-CSE, CRYSTALLINE-XLN, GRAIN-GRN, GRANULAR-GRNL, BROWN-BRN, GRAY-GY, VUGGY-VGY, FRACTURED-FRAC, LAMINATION-LAM, STYLOLITIC-STY, SLIGHTLY-SL/, VERY-V/, WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS (K_A)	POROSITY PER CENT *	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
36	10766.2	0.04	7.2	0.0	59.2	Sd Drk Gy V/Fn Grn Silty Clay
37	67.3	0.03	5.5	0.0	54.8	Sd Drk Gy V/Fn Grn V/Silty Clay
38	68.4	0.04	6.2	0.0	55.9	Sd Drk Gy V/Fn Grn V/Silty Clay
39	69.2	0.04	6.2	0.0	63.4	Sd Drk Gy V/Fn Grn V/Silty Clay
40	70.2	0.02	5.5	0.0	69.8	Sd Drk Gy V/Fn Grn V/Silty Clay
41	71.4	0.04	5.9	0.0	45.8	Sd Drk Gy V/Fn Grn Silty Clay
42	72.7	0.05	6.7	0.0	56.2	Sd Drk Gy V/Fn Grn Silty Clay
43	73.4	0.03	4.5	0.0	38.5	Sd Drk Gy V/Fn Grn Silty Clay
44	74.2	0.05	6.4	0.0	34.6	Sd Drk Gy V/Fn Grn Silty Clay
45	75.4	0.05	7.1	0.0	53.1	Sd Drk Gy V/Fn Grn Silty Clay
46	76.8	0.07	7.1	0.0	51.3	Sd Drk Gy V/Fn Grn Silty Clay
47	77.5	0.05	6.8	0.0	32.9	Sd Drk Gy V/Fn Grn Silty Clay
48	78.3	0.05	6.6	0.0	47.5	Sd Drk Gy V/Fn Grn Silty Clay
49	79.3	0.05	6.5	0.0	42.3	Sd Drk Gy V/Fn Grn Silty Clay
50	80.4	0.08	6.9	0.0	42.6	Sd Drk Gy V/Fn Grn Silty Clay
51	81.4	0.03	4.9	0.0	53.0	Sd Drk Gy V/Fn Grn V/Silty Clay
52	82.1	0.10	6.8	0.0	50.2	Sd Drk Gy V/Fn Grn Silty Clay
53	83.7	0.05	7.0	1.2	39.0	Sd Drk Gy V/Fn Grn Silty Clay
54	84.7	0.06	7.1	0.0	59.6	Sd Drk Gy V/Fn Grn Silty Clay
55	85.2	0.04	6.3	0.0	45.0	Sd Drk Gy V/Fn Grn Silty Clay
56	86.4	0.05	6.2	0.0	49.5	Sd Drk Gy V/Fn Grn Silty Clay
57	87.1	0.08	7.7	0.0	66.5	Sd Drk Gy V/Fn Grn Silty Clay
58	88.7	0.15	8.0	0.0	34.7	Sd Drk Gy V/Fn Grn Silty Clay
59	89.4	0.05	7.1	0.0	47.8	Sd Drk Gy V/Fn Grn Silty Clay
60	90.2	0.06	7.3	0.0	41.1	Sd Drk Gy V/Fn Grn Silty Clay
61	91.3	0.07	6.9	0.0	38.0	Sd Drk Gy V/Fn Grn Silty Clay
62	92.8	0.07	6.6	1.4	35.7	Sd Drk Gy V/Fn Grn Silty Clay
63	93.4	0.07	7.3	0.0	41.3	Sd Drk Gy V/Fn Grn Silty Clay
64	94.3	0.09	6.9	1.3	40.6	Sd Drk Gy V/Fn Grn Silty Clay
65	95.4	0.06	6.7	0.0	47.2	Sd Drk Gy V/Fn Grn Silty Clay
66	96.3	0.04	3.3	0.0	51.2	Sd Drk Gy V/Fn Grn Silty Clay Carb
67	97.8	0.03	5.7	0.0	58.7	Sd Drk Gy V/Fn Grn Silty Clay
68	98.4	0.04	6.1	1.9	53.5	Sd Drk Gy V/Fn Grn Silty Clay
69	99.4	0.03	5.5	0.0	62.0	Sd Drk Gy V/Fn Grn Silty Clay
70	10800.6	0.03	4.7	0.0	59.6	Sd Drk Gy V/Fn Grn Silty Clay

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
Well NO. 1 WILKIN RIDGE UNIT Core Type DIAMOND 4" Date Report 11-2-74
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG:EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

Lithological Abbreviations

SAND-SD SHALE-SH LIME-LM	DOLOMITE-DOL CHERT-CH GYPSUM-GYP	ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS	SANDY-SDY SHALY-SHY LIMY-LMY	FINE-FN MEDIUM-MED COARSE-CSE	CRYSTALLINE-XLN GRAIN-GRN GRANULAR-GRNL	BROWN-BRN GRAY-GY VUGGY-VGY	FRACTURED-FRAC LAMINATION-LAM STYLOLITIC-STY	SLIGHTLY-SL/ VERY-V/ WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
		(K_A)	*			
71	11197.5	0.02	4.9	27.6	31.5	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
72	98.4	0.07	4.8	15.9	13.6	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
73	11213.8	0.01	2.0	5.7	68.6	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
74	14.6	0.02	1.6	9.2	55.2	Sd Drk Gy V/Fn Grn V/Silty Clay
75	15.7	0.01	1.5	0.0	57.4	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
76	16.3	0.01	1.0	10.1	60.6	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
77	17.3	0.01	1.0	0.0	76.3	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
78	11222.4	0.02	1.5	0.0	58.0	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
79	23.7	0.02	2.7	4.6	64.0	Sd Drk Gy V/Fn Grn V/Silty Clay
80	24.7	0.02	2.4	7.7	77.4	Sd Drk Gy V/Fn Grn V/Silty Clay

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FLUID SAMPLE DATA

Sampler Pressure _____ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas _____
cc. Oil _____
cc. Water _____
cc. Mud _____
Tot. Liquid cc. _____
Gravity _____ ° API @ _____ °F.
Gas/Oil Ratio _____ cu. ft./bbl.

			RESISTIVITY		CHLORIDE CONTENT
Recovery Water	@	°F.			ppm
Recovery Mud	@	°F.			ppm
Recovery Mud Filtrate	@	°F.			ppm
Mud Pit Sample	@	°F.			ppm
Mud Pit Sample Filtrate	@	°F.			ppm

Mud Weight _____ vis _____ cp

Date 10-27-74 Ticket Number 874124
Kind of Job OPEN HOLE TEST Halliburton District VERNAL
Tester MR. COUNTS Witness MR. HYLAND
Drilling Contractor BRINKERHOFF DRILLING COMPANY RIG #26

EQUIPMENT & HOLE DATA

Formation Tested Mesa Verde
Elevation _____ Ft.
Net Productive Interval 10312' - 10259' Ft.
All Depths Measured From Rotary Kelly Bushing
Total Depth 10312' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 537.24' I.D. 2 3/8"
Drill Pipe Length 9586' I.D. 3.826"
Packer Depth(s) 10250' - 10259' Ft.
Depth Tester Valve 10240' Ft.

Cushion TYPE _____ AMOUNT _____ Ft. Depth Back Pres. Valve 10,150 Surface Choke 3/4" - 1/4" Bottom Choke 3/4"

Recovered 90 Feet of Slightly gas cut mud.
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of (READINGS ON FINAL CLOSED IN PRESSURE ON BOTTOM GAUGE # 1531 ARE QUESTIONABLE).
Remarks Tool opened at 07:08 for a 5 minute first flow period, tool slid about 8'.

Flow pressure with a weak blow to a medium blow in 3 minutes. Medium blow throughout test. Closed tool at 07:13 for a 30 minute initial closed in pressure. Reopened tool at 07:43 for a 124 minute second flow period with a medium blow on blow hose, opened manifold to flow line with 1/4" gas orfice 1# pressure with a medium blow at 08:10. At 08:20 pressure and blow decreasing to a very weak blow. Closed tool at 09:47 for a 60 minute final closed in pressure period. Pulled tool loose at 10:47; pulled about 8'. Tool stuck. Worked tool about 10 minutes.

TEMPERATURE	Gauge No. 198 Depth: 10144' Ft.		Gauge No. 1530 Depth: 10244' Ft.		Gauge No. Jarred 2 times. Tools loose Depth: 1531 - 10309' Ft.		TIME	
	24 Hour Clock		24 Hour Clock		24 Hour Clock		Tool Opened	A.M. P.M.
Est. °F.	Blanked Off No		Blanked Off No		Blanked Off Yes		Opened Bypass	A.M. P.M.
Actual °F.	Pressures		Pressures		Pressures		Reported Minutes	Computed Minutes
	Field	Office	Field	Office	Field	Office		
Initial Hydrostatic			4917	4911	4971	4968		
First Period Flow Initial		51	84	98	143	126	____	____
First Period Flow Final		51	100	86	112	126	5	5
First Period Closed in	68	51	230	207	275	257	30	30
Second Period Flow Initial	40	46	84	94	138	134	____	____
Second Period Flow Final	32	27	100	86	143	134	124	124
Second Period Closed in	32	27	188	199	244	242	60	60
Third Period Flow Initial							____	____
Third Period Flow Final								
Third Period Closed in								
Final Hydrostatic				4905	4951	4944	____	____

Legal Location Sec. - Twp. - Rng.
Lease Name WILKINS RIDGE
Well No. 1
Test No. 1
Tested Interval 10259' - 10312'
Lease Owner/Company Name EXXON COMPANY USA
Field Area WILDCAT
Meas. From Tester Valve
County DUCHESNE
State UTAH

FORM 161-R1—PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 96671 10M 8/74

Gauge No. 198			Depth 10144'			Clock No. 2290			24 hour	Ticket No. 874124				
	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	51	.000		51	.000	46	.000		27					
1	.015	51	.089		51	.411	27	.204		27					
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
Gauge No. 1530					Depth 10244'			Clock No. 4090			24 hour				
0	.000	98	.000		86	.000	94	.000		86					
1	.0034	79	.0101		107	.0803*	88	.200		199					
2	.0068	82	.0202		123	.1472	86								
3	.0102	84	.0303		136	.2141	86								
4	.0136	86	.0404		149	.2810	86								
5	.0170	86	.0505		157	.3479	86								
6			.0606		169	.4150	86								
7			.0707		180										
8			.0808		190										
9			.0909		199										
10			.1010		207										
11															
12															
13															
14															
15															
Reading Interval	1		3			20									Minutes

REMARKS:

* = 24 minutes

FORM 183-R1—PRINTED IN U.S.A.

SPECIAL PRESSURE DATA

LITTLE'S 96673 75C 8/74

Gauge No. 1531	Depth 10,309'	Clock No. 7139	24 hour	Ticket No. 874124

	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	126	.000		126	.000	153	.000		134					
1	.015	126	.0100		147	.0801*	134	.200		242					
2			.0200		163	.1469	134								
3			.0300		179	.2137	134								
4			.0400		193	.2805	134								
5			.0500		206	.3473	134								
6			.0600		218	.4140	134								
7			.0700		228										
8			.0808		238										
9			.0909		238										
10			.1000		257										
11															
12															
13															
14															
15															

Gauge No.		Depth		Clock No.		hour			
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
Reading Interval		3		20					Minutes

REMARKS:

* = 24 minutes

SPECIAL PRESSURE DATA

TICKET NO. 874124

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5 3/4"	3.00"	.93"	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	9586'	
Drill Collars	6"	2 3/8"	537.24'	
Handling Sub & Choke Assembly				
~~Dual CIP Valve~~ A P Running Case	5"		4.10'	10144'
Dual CIP Sampler	5"	.87"	6.81'	10150'
Hydro-Spring Tester	5"	3/4"	5'	10240'
Drill Collars	6"	2 3/8"	101.41'	
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4.10'	10244'
Hydraulic Jar				
VR Safety Joint	5"	1.00"	2.50'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	5.81'	10250'
Distributor	5"		2.00'	
Packer Assembly	6 3/4"	1.53"	5.81'	10259'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint	5 3/4"	1.50"	4'	
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5 3/4"	4.75"	45.00'	
Blanked-Off B.T. Running Case	5 3/4"	2.50"	4.50'	10309'
Total Depth				10312'

K P

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1975, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* W. A. Greene

Phone (303) 761-6470 *Agent's title* Acting Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
			1	7	81.0	60.0	562.5	-	None	
				8	219.5	60.4	1,111.2	-	None	
				9	144.0	56.0	1,151.8	-	141.0	
				10	104.5	55.9	975.9	-	132.0	
				11	73.0	55.4	542.0	-	93.0	
				12	55.5	56.3	464.8	-	88.5	
				13	55.5	56.4	470.2	-	99.0	
				14	49.5	54.7	458.7	-	80.5	
				15	44.0	56.7	475.5	-	77.5	
				16	39.5	55.9	459.4	-	67.5	
				17	34.5	56.0	439.9	-	63.0	
				18	35.5	55.6	404.6	-	57.0	
				19	32.0	54.8	397.1	-	55.5	
				20	30.0	55.0	376.9	-	52.0	
				21	29.0	55.7	362.7	-	48.0	
				22	27.5	55.8	396.2	-	50.0	
				23	25.5	55.6	368.9	-	47.5	
				24	25.5	55.3	360.0	-	46.5	
				25	19.0	55.8	327.0	-	38.0	
				26	22.0	56.1	306.6	-	35.5	
				27	21.0	56.1	302.8	-	35.0	
				28	21.5	56.2	298.9	-	35.5	
				29	21.0	56.1	293.1	-	34.5	
				30	20.5	56.1	287.1	-	34.0	
			TOTAL		1,230.5		11,593.8		1,411.0	Gas Flared

RECEIVED
OCT 10 1975
DIVISION OF OIL, GAS, & MINING

738.09(net)Bbls of recovered frac oil runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—There were

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

892-556 U.S. GOVERNMENT PRINTING OFFICE: 1964—O-729-784

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of OCTOBER, *19* 75, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* [signature]

Phone (303) 778-3411 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW/NW 29	10S	17E	EXXON #1 WILKIN RIDGE UNIT 1						CONFIDENTIAL	
				1	7.0	57.1	85	-	10.5	Flow 7½ hrs. this day's report.
					Pumped into tubing w/water carrying 2,500# 20-40 mesh sand; left well SI 25½ hrs. for sand to settle to bottom, to add fill up to about 11,700' as an attempt to shut off water.					
				2	20.5	57.6	284	-	68.5	Flow 15 hrs., this day's report.
				3	21.0	56.7	352	-	56.5	Flow 24 hrs.
				4	15.5	55.7	257	-	31.5	Flow 23 hrs.
				5	16.5	56.0	272	-	28.5	Flow 24 hrs.
				6	14.5	55.8	257	-	22.5	Flow 22½ hrs.
				7	19.5	55.8	332	-	30.0	Flow 24 hrs.
				8	18.5	53.8	317	-	35.0	
				9	17.0	53.0	297	-	34.5	
				10	16.0	53.4	300	-	33.0	
				11	15.0	53.5	295	-	31.5	
				12	15.5	53.6	297	-	31.5	
				13	8.0	53.4	166	-	16.5	Flow 18½ hrs., this day's report.
				14	Shut in @0600, 10-14-75.					
				TOTAL:	204.5		3,511		430.0	Gas Flared

NOTE: Well is shut-in for winter, pending evaluation and development of plans for action in 1976. Christmas tree (10,000-psi WP) is installed, with valves locked in closed position. Shut-in pressure will be observed occasionally.

EGH:bt

NOTE.—There were 377.45 (Net) bbls of recovered frac oil runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

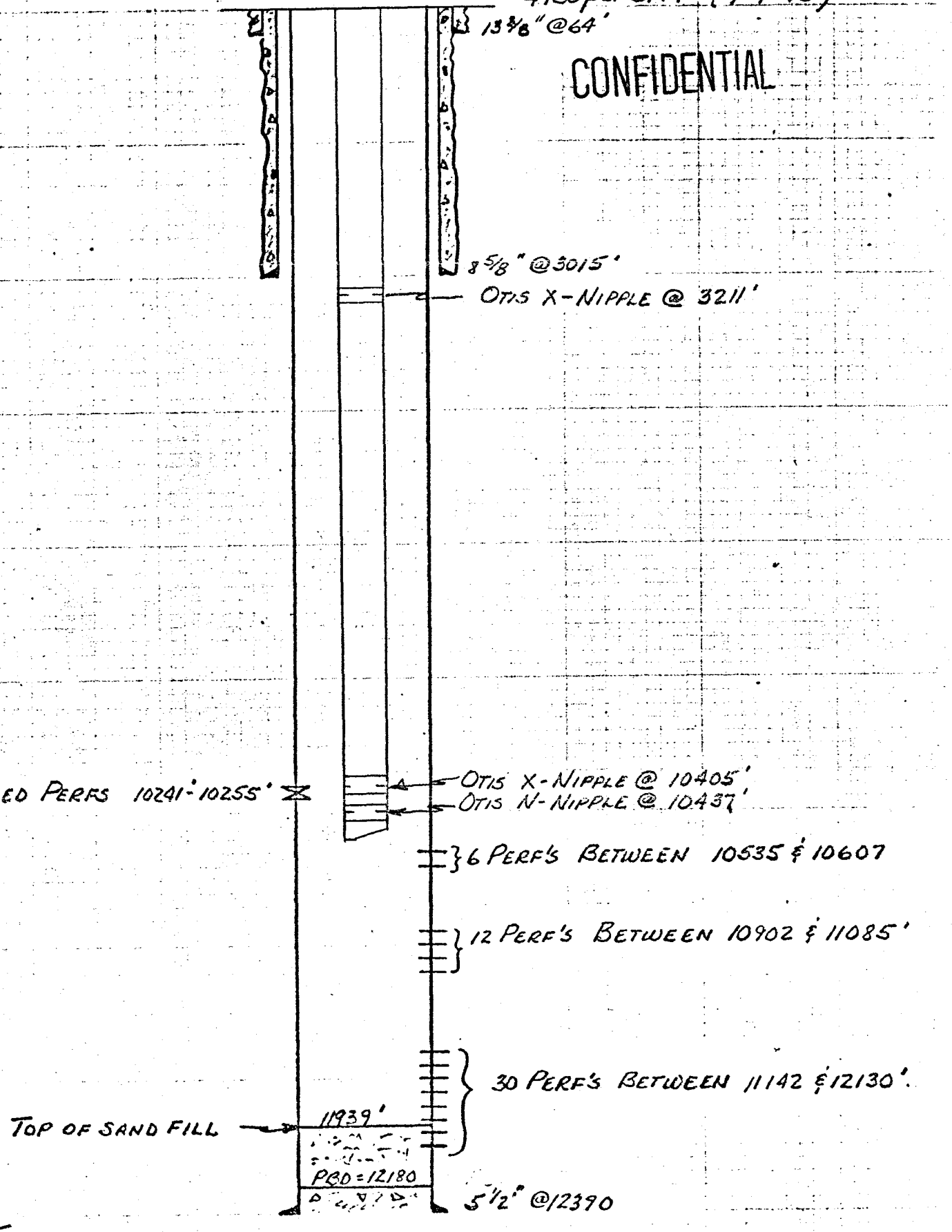
GPO 837-082

Exxon #1 Wilkin Ridge Unit

Current Wellbore Schematic (As of 9/3/75)

4750 psi SITP (9-1-75)

CONFIDENTIAL

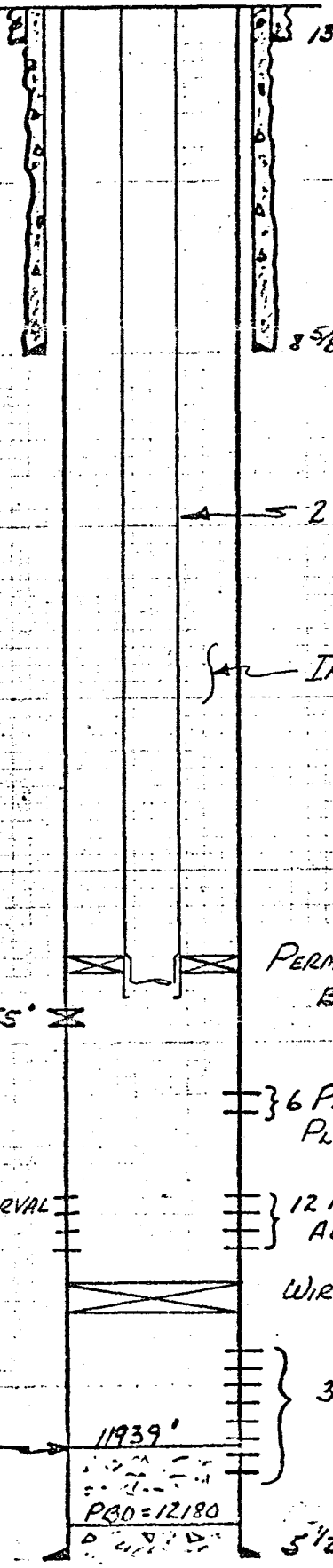


RS
9/3/75

EXXON #1 WILKIN RIDGE UNIT

PROPOSED WELLBORE SCHEMATIC

CONFIDENTIAL



RS
9/3/25

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

RECEIVED
OCT 20 1975
DIVISION OF OIL, GAS, & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

CONFIDENTIAL

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980' FNL, 2055' FWL, Sec. 29, T10S, R17E, S.L.M.
Duchesne County, Utah

5. LEASE DESIGNATION AND SERIAL NO.
Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Wilkin Ridge Unit

8. FARM OR LEASE NAME

9. WELL NO.
Exxon #1 Wilkin Ridge Unit

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29,T10S,R17E, SLM

14. PERMIT NO.
API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6192' RDB

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) OPERATIONS			X
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

10-1-75: Flowed and tested well. Shut well in @1330, 10-1-75, and pumped into tubing a total of 60 bbl 1% KCl water and 2500 lb 20-40 mesh sand. Sand to be allowed to settle to bottom to add fill up to about 11,700' as an attempt to shut off water. (This plugback w/sand is in accord w/phone call from Exxon's J. W. Jackson to U.S.G.S.' E. W. Guynn this date.)

10-2-75: Opened well at 1500, 10-2-75, to resume flow test and evaluation.

10-3-75 to 0600 10-14-75: Flow and test well; continues to produce some water. Ran Otis wire line on 10-5-75 and tagged solid bottom (sand fill) at 11,729' odometer measurement. Ran GO International Inc. Temperature Surveys and Noise Logs for use in evaluating well, tagged fill @11,715' relative to casing collars while logging on 10-13-75.

10-14-75: Shut well in @0600, 10-14-75, pending further evaluation and development of plans for future action, in 1976, after shut-in through winter.

NOTE: Two monthly reports (Lessee's Monthly Report of Operations, and Lessee's Monthly Report of Sales and Royalty) will be filed after close of October business.

EGH:bt

18. I hereby certify that the foregoing is true and correct

SIGNED Gene O. Thompson TITLE Division Drilling Manager DATE 10-16-75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

1553 - 1557	1635 - 1639	10,432' Hanging Depth
1558 - 1601		10,600'
1602 - 1605		10,800'
1607 - 1610		11,000'
1611 - 1614		11,200'
1616 - 1619		11,400'
1621 - 1624		11,600'
1625 - 1630		11,800'

(Time)

1630 - 1711	Traverse out of Hole
1717 - 1717	Last Null in Lubricator
1729	Last Null Top Gauge
1730	Last Null Btm. Gauge
1717 - 1721	Bleed off Pressure

Temp° 200°F

Operators

Don Mason / Bill Foster

sperry-sun

P. O. Box 36363 Houston, Texas 77036 Phone (713) 494-3021
Cable SPERRYSUN TELEX 76-2795

Houston, Corpus Christi, and Odessa, Tex./Lafayette, and New Orleans, La./Long Beach, and Ventura, Calif./Anchorage, Alaska/Brewton, Ala./Brookhaven, Miss./Casper, Wyo./Mercury, Nev./Oklahoma City, Okla./Vernal, Utah/Edmonton, Alta., Canada/Dubai, United Arab Emirates, Arabian Gulf/Great Yarmouth, Norfolk, England/Aberdeen, Scotland/Servco de Venezuela, Maracaibo/Trinidad Well Control, Trinidad, W. I.

9-331
(January 1950)

Budget Bureau No. 42-R361.2
Approval expires 12-31-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah
Lease No. U-7362

LESSEE'S MONTHLY REPORT OF SALES AND ROYALTY

Lessee Exxon Corporation Month October, 1975

CONFIDENTIAL

Location 29 (Section) 10-S (T.) 17-E (R.) SL (M.)

Field Ninemile Canyon Wildcat County Duchesne State Utah

Following are ALL runs and sales made this month
(If no runs or sales of any products were made, state NONE under the appropriate heading)

OIL

Tank No.	Date	Net Barrels Run	Gravity	Price Per Barrel	Value
Frac Tanks	10-15-75	377.45	55.4	$9.19	$3,468.77
		TOTAL BARRELS RUN 377.45	AVERAGE PRICE $9.19		TOTAL VALUE $3,468.77

PURCHASER OF ABOVE OIL: Koch Oil Company (Trucked)

GAS

Sales in 1,000 Cu. Ft. @ 10 oz. and 14.4#	Price per 1,000 Cu. Ft.	Value
3511 (Flared)	$0.50 (No Contract)	$1,755.50
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE GAS: Flared in accord w/Form 9-331 approved 1/02/75 by Mr. E. W. Guynn.

GASOLINE

Sales in Gallons	Price Per Gallon	Value
NONE		
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE GASOLINE

BUTANE AND OTHER LIQUID PRODUCTS

Sales in Gallons	Price Per Gallon	Value
NONE		
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE BUTANE OR OTHER LIQUID PRODUCTS

NUMBER OF OIL PRODUCING WELLS AFFECTING ROYALTY COMPUTATIONS

ROYALTY

Product	Sales (Flared)	Royalty Rate	Royalty Quantity	Royalty Value
OIL (Barrels)	--		None	None
GAS (1,000 Cu. Ft.)	3511 Mcf $1,755.50	0.125	438.88 Mcf	$219.44
GASOLINE (Gallons)	--			
BUTANE and Other Liquid Prod.	--			
TOTAL VALUE OF ROYALTY				$219.44

*Where applicable state "None"

ACKNOWLEDGMENT

I have ~~read~~ and examined the statements made hereon and find them true, accurate, and complete.

(Signature and title of officer authorized to sign for lessee)

(Lessee or Operator)

Division Drilling Manager

Section 35 (A) of the United States Criminal Code, 18 U. S. C. 80, makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.

This form to be properly prepared and filed IN DUPLICATE with the supervisor on or before the 6th day of the succeeding month. Sales may be itemized on any other convenient form and attached to this report.

U. S. GOVERNMENT PRINTING OFFICE 16—16504-4

RECEIVED
FEB 13 1976
DIVISION OF OIL, GAS, & MINING

K

PI

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of JANUARY, 19 76, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* Glen F Kirkbridge

Phone (303) 778-3411 *Agent's title* Senior Staff Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	EXXON #1 WILKIN RIDGE UNIT							

CONFIDENTIAL

Well SI 10-14-75 for winter.

11-6-75: SITP 3,050 psi; SICP 3,100 psi.

11-13-75: SITP 3,200 psi; SICP 3,200 psi.

12-5-75: SITP 3,650 psi; SICP 3,650 psi.

12-12-75: SITP 3,700 psi; SICP 3,700 psi.

1-9-76: SITP 3,900 psi; SICP 3,900 psi.

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of MARCH, *19* 76, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* John F Kilkenny

Phone (303) 778-3411 *Agent's title* Senior Staff Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	EXXON #1 WILKIN RIDGE UNIT					CONFIDENTIAL		

11-6-75: SITP 3,050 psi; SICP 3,100 psi.

11-13-75: SITP 3,200 psi; SICP 3,200 psi.

12-5-75: SITP 3,650 psi; SICP 3,650 psi.

12-12-75: SITP 3,700 psi; SICP 3,700 psi.

1-9-76: SITP 3,900 psi; SICP 3,900 psi.

2-12-76: SITP 4,100 psi; SICP 4,100 psi.

3-9-76: SITP 4,200 psi; SICP 4,200 psi.

RECEIVED
APR 7 1976
DIVISION OF OIL, GAS, & MINING

cc: Utah Div. of Oil & Gas
Partners

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Form 3106-5
(February 1971)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 42-R1599

Serial No. U-7362

LAND OFFICE USE ONLY
New Serial No.

ASSIGNMENT AFFECTING RECORD TITLE TO OIL AND GAS LEASE
PART I

Pacific Transmission Supply Company
633 - 17th Street, Suite 2140
Denver, Colorado 80202

1.

The undersigned, as owner of 100 percent of record title of the above-designated oil and gas lease issued effective *(date)* January 1, 1969, hereby transfers and assigns to the assignee shown above, the record title interest in and to such lease as specified below.

2. Describe the lands affected by this assignment *(43 CFR 3101.2-3)*

Township 10 South, Range 17 East, SLM
Section 29: All
containing 640.00 acres, more or less, in Duchesne County, Utah, together with all right, title and interest in and to the well located thereon and the equipment and personal property used in connection therewith.

3. What part of assignor(s) record title interest is being conveyed to assignee? *(Give percentage or share)* 100%

4. What part of the record title interest is being retained by assignor(s)? None

5a. What overriding royalty or production payments is the assignor reserving herein? *(See Item 4 of General Instructions; specify percentage.)* None

b. What overriding royalties or production payments, if any, were previously reserved or conveyed? *(Percentage only)* 9.75%

It is agreed that the obligation to pay any overriding royalties or payments out of production of oil created herein, which, when added to overriding royalties or payments out of production previously created and to the royalty payable to the United States, aggregate in excess of 17½ percent, shall be suspended when the average production of oil per well per day averaged on the monthly basis is 15 barrels or less.

This assignment is subject to the provisions of a certain letter agreement dated November 18, 1976, between assignor, assignee and Placid Oil Company.

I CERTIFY That the statements made herein are true, complete, and correct to the best of my knowledge and belief and are made in good faith.

Executed this 18th day of November, 1976

EXXON CORPORATION

O. K. as to transaction.. JFA

By A. A. Phillips

O. K. as to form.....

(Assignor's Signature)

A. A. Phillips - Attorney in Fact

P. O. Box 2305
(Assignor's Address)

Houston, Texas 77001
(State) (Zip Code)

CAR-PRO-1885.3

STATE OF Colorado
COUNTY OF Arapahoe } ss.

UTAH-COLORADO ACKNOWLEDGMENT
(ATTORNEY IN FACT)

On the 10th day of January, 1977, personally appeared before me A. A. PHILLIPS, who, being by me duly sworn, did say that he is the attorney in fact of EXXON CORPORATION, and that said instrument was signed in behalf of said grantor by authority, and said A. A. PHILLIPS acknowledged to me that he, as such attorney in fact, executed the same.

My commission expires: July 5, 1977

W. M. Lyons
Notary Public

Residing at: Littleton, Colorado

NOTE: This form may be reproduced provided that copies are exact reproductions on one sheet of ... in accordance with the provisions of 43 CFR 3106

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION DEPARTMENT
WESTERN DIVISION

L. A. DODD
DIVISION LANDMAN

November 18, 1976

RE: Exxon #1 Wilkin Ridge Unit Well
Duchesne County, Utah

Pacific Transmission Supply Company
633 17th Street, Suite 2140
Denver, Colorado 80202

Gentlemen:

Enclosed are four executed copies of an assignment dated November 18, 1976, whereby Exxon Corporation ("Exxon") conveys to Pacific Transmission Supply Company ("Pacific") all right, title and interest in and to U. S. A. oil and gas lease U-7362, covering all of Section 29, Township 10 South, Range 17 East, SLM, Duchesne County, Utah, together with all right, title and interest in and to the well presently known as the Exxon #1 Wilkin Ridge Unit Well ("said well") located thereon and the equipment and personal property used in connection therewith, subject to the within agreement. Exxon acquired the subject lease from Placid Oil Company ("Placid") and Placid has heretofore reserved certain rights and interests in and to the leasehold estate being conveyed by the enclosed assignment. It is hereby agreed that said assignment shall be deemed to be subject to the terms and provisions set out below.

The "payout period" of said well, as used herein, shall be deemed to be the time during which Pacific has been reimbursed out of 100% of the net production (as hereinafter defined) realized by Pacific from oil and gas produced and sold from said well an amount equal to (a) the cost of drilling, completing, formation fracturing and testing said well to date, for the purposes of this agreement hereby agreed to be $2,065,713.00, plus (b) the actual cost of any future testing, plugging back, drilling deeper, reworking, formation fracturing, or other operation employed by Pacific in attempting to complete

or to obtain production in said well, (c) plus the cost of equipping such well through the tanks and (d) plus the cost of operating said well while Pacific is being so reimbursed. "Net production", as used herein, shall mean the gross value of the total production produced and saved from said well and said lease, less (1) all State and Federal taxes required to be paid thereon. (2) the lessor's royalty and (3) all reserved overriding royalties on the production from said well and said lease which are included in the 9.75% overriding royalty described in Paragraph 5 (b) of the enclosed assignment.

In consideration of the enclosed assignment, Pacific hereby relieves Exxon of all responsibility for any cost or liability related to the plugging and abandoning of said well. Pacific also hereby relieves Placid of all responsibility for any cost or liability related to the plugging and abandonment of said well only if said operation is performed before the end of the payout period.

It is recognized that Placid has relinquished all of its working interest during the payout period of said well but has reserved the right during such payout period to receive, as an overriding royalty on production from said well, 6.25% of the market value at the well of all oil, gas and condensate produced, saved and sold from said well (said 6.25% overriding royalty being included in the 9.75% overriding royalty described in Paragraph 5 (b) of the enclosed assignment). The overriding royalty interest to be so paid to Placid shall terminate at the end of the payout period, whereupon Placid shall share to the extent of 50% of the whole working interest in the ownership of said well, and the production therefrom; and, thereafter, said well is to be operated under the terms of an operating agreement satisfactory to both Pacific and Placid.

Promptly after completion of said well Pacific shall furnish Placid with itemized and detailed information reflecting all cost of testing, deepening, plugging back, reworking, stimulating, completing and equipping said well, and quarterly thereafter with similar information reflecting operating costs of said well and the volume and value of the production obtained therefrom in the preceding quarter.

At such time as said well is plugged and abandoned, Placid shall be entitled to and upon demand shall receive, if it has not already received, an assignment of a 50% working interest in said lease, without cost to Placid, in

exchange for which Placid shall relinquish to Pacific its aforesaid 6.25% overriding royalty.

Any assignment from Pacific to Placid shall be made subject to a proportionate share of the lessor's royalty and of the 3.50% overriding royalty heretofore reserved and included in the 9.75% overriding royalty described in Paragraph 5 (b) of the assignment herewith enclosed.

In the event Pacific desires to surrender said lease in whole or in part, Pacific shall mail an appropriate notice to Placid at least 45 days in advance of the next anniversary date of said lease. Upon written request of Placid received within 15 days after the mailing of such notice, Pacific shall reassign to Placid the interest which Pacific desires to relinquish and surrender. However, Pacific shall not be liable in damages for clerical error, mistake or oversight.

By its signature below, Pacific hereby acknowledges receipt and accepts delivery of said assignment subject to the above agreement. Placid, by its signature below, hereby ratifies, confirms and adopts the above agreement.

EXXON CORPORATION

By _____
Attorney in Fact

ACCEPTED and AGREED to this
21st day of January, 1977

PACIFIC TRANSMISSION SUPPLY COMPANY

By _____
President

ACCEPTED and AGREED to this
25th day of February, 1976.

PLACID OIL COMPANY

By _____
C. D. Brown, President

Natural Gas
Corporation of
California

November 7, 1984

Mr. Ron Gregory
Exxon Company
P. O. Box 1600
Midland, TX 79702

Dear Mr. Gregory:

RE: Wilkins Ridge #1
Sec. 29, T10S, R17E
Uintah County, Utah

As per your request, please find enclosed a copy of the letter agreement and the assignment for the above-referenced well.

Regards,

NATURAL GAS CORPORATION
OF CALIFORNIA

Steven D. Pritza
Accounting Supervisor

SDP:law

encs.

cc: JR Beezley

Denver Corporate Center · Tower II
7800 East Union Avenue · Suite 800
Denver, Colorado 80237
(303) 694-6076

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: U-7362
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER
7. UNIT AGREEMENT NAME: Wilkin Ridge Unit
2. NAME OF OPERATOR: Natural Gas Corporation of California
8. FARM OR LEASE NAME:
3. ADDRESS OF OPERATOR: 85 South 200 East, Vernal, UT 84078
9. WELL NO.: Exxon #1 Wilkin Ridge Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' FNL 2055' FWL SE NW Section 29, T.10S., R.17E. SLM
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 29, T.10S., R.17E. SLM
14. PERMIT NO.: 43-013-30327
15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6192' KB
12. COUNTY OR PARISH: Duchesne
13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Request Temporary Surface Pit	X			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator requests an unlined surface pit per NTL-2B, Sec. VI. The subject pit would be used as a blow down pit when the well is flow tested.

If you require additional information, please contact me at our Vernal office - telephone 789-4573.

RECEIVED
NOV 23 1984
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED William A. Ryan — William A. Ryan — TITLE Petroleum Engineer — DATE November 15, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action is required before commencing operations.

ACCEPTED
~~APPROVED~~ BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 11/20/84
BY: R. Baza

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form OGC-1b

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FEB -4

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 1600, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2055' FWL, 1980' FNL of Sec. 29

5. LEASE DESIGNATION AND SERIAL NO.: U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

8. FARM OR LEASE NAME: Wilkin Ridge Unit

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29, T10S, R17E

14. PERMIT NO.: 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6193' KB

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Change of operator			☐
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Exxon Corporation assigned all rights to the Wilkin Ridge Unit #1 to Pacific Transmission Supply Company on November 18, 1976. Exxon no longer operates this well.

18. I hereby certify that the foregoing is true and correct

SIGNED R. P. Gregory TITLE Sr. Accountant DATE 1-31-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Natural Gas Corporation of California

May 10, 1988

RECEIVED
JUL 14 1988
DIVISION OF
OIL, GAS & MINING

Bureau of Land Management
Vernal District
170 South 500 East
Vernal, Utah 84078

Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Exxon Wilkin Ridge #1
Section 29, T10S, R17E
Duchesne County, Utah

Gentlemen:

Attached is Form 3160-5, "Sundry Notices and Reports on Wells", Notice of Intention to Plug and Abandon the subject well.

If you have any questions, please contact our Vernal office.

Sincerely,

Mike McMican

Michael L. McMican
Petroleum Engineer

Attachment

cc: S. Furtado
L. Jorgensen
W. G. Paulsell
B. Hill
H. Culp

85 South 200 East
Vernal, Utah 84078
(801) 789-4573

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
JUL 14 1988
DIVISION OF
OIL, GAS & MINING

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1980 FNL, 2055' FWL

5. LEASE DESIGNATION AND SERIAL NO.
U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Wilkin Ridge Unit

8. FARM OR LEASE NAME
Federal

9. WELL NO.
Exxon #1 Wilkin Ridge

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29, T10S, R17E

14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH	13. STATE
43-013-30327	6173' GR	Duchesne	Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☒	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Operator proposes to abandon the well in the following manner:

Bridge plug @ 10,500'.
Cement in 5½" csg and 5½" by 7-7/8" annulus from 9300' to 9100' with retainer @ 9100' and squeeze holes @ 9300' (Mesaverde top).
Cement in 5½" csg and 5½" by 7-7/8" annulus from 5100' to 4900' with retainer @ 4900' and squeeze holes at 5100' (Wasatch top).
Cement in 5½" csg and 5½" by 7-7/8" and 8-5/8" annulus from 3115'-2915' with squeeze holes at 3115' (across surface csg shoe).
Cement in 5½" csg and 5½" by 8-5/8" annulus from 200' to 0' with squeeze holes at 200'.
Minimum 9 ppg bentonite weighted fresh water mud between plugs. Erect regulation dryhole marker.
Restore location.

18. I hereby certify that the foregoing is true and correct

SIGNED Mike McMican Michael L. McMican TITLE Petroleum Engineer DATE July 12, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action is required before commencing operations.

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 7-19-88
BY: John R. Baza

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☒ OTHER

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

2. NAME OF OPERATOR: (EXXON) Natural Gas Corporation of California

8. FARM OR LEASE NAME: Federal

3. ADDRESS OF OPERATOR: 85 South 200 East, Vernal, UT 84078

9. WELL NO.: Exxon #1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' FNL, 2055' FWL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29, T10S, R17E

RECEIVED
AUG 15 1988
DIVISION OF OIL, GAS & MINING

14. PERMIT NO.: 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6173' GR

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐				
(Other)				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

8-3-88: MIRU. Load hole w/fresh wtr, ND tree and NU BOP's.

8-4-88: TP=1500, CP=1600, circ well w/fresh wtr, POH w/2000' tbg. Well started flowing, circ well w/10 ppg brine, still trying to flow, TIH to 10,487'.

8-5-88: TP=1600, CP=1500, circ hole w/brine, POH 10 stds, well trying to flow, TIH to 10,487'.

8-6-88: TP=900, CP=1000, circ well w/12 ppg mud, POH tbg, WL set BP @ 10,490', TIH w/tbg and tag BP.

8-7-88: Set 10 sx 50/50 poz cmt on BP, POH tbg, perf'd 4 holes @ 8500', set retainer @ 8300', RIH tbg and sting into retainer, pumped 53 sx 50/50 poz cmt (12 bbls), left 1 bbl cmt on retainer, POH tbg.

8-8-88: Perf'd 4 holes @ 5100', set retainer @ 4900', RIH tbg and sting into retainer, pumped 53 sx 50/50 poz, POH tbg, perf'd 4 holes @ 3120'. RIH tbg to 2914', pumped 51 sx 50/50 poz (surface csg shoe).

8-9-88: POH tbg, perf'd 4 holes @ 200', circ 51 sx 50/50 poz cmt @ surface, cut off csg hd, installed dryhole marker, cut deadmen 2' below surface, wait on rehabilitation stipulations.

Copies: Div. OG&M; Ralph E. Davis; Paulsell; Furtado; Hill; Jorgensen; Culp

18. I hereby certify that the foregoing is true and correct

SIGNED Mike McMican Michael L. McMican TITLE Petroleum Engineer DATE Aug. 11, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

P&A 6

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other Abandonment

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

8. FARM OR LEASE NAME: Federal

2. NAME OF OPERATOR: Natural Gas Corporation of California

9. WELL NO.: Exxon #1 Wilkin Ridge

3. ADDRESS OF OPERATOR: 85 South 200 East, Vernal, UT 84078

10. FIELD AND POOL, OR WILDCAT: Wildcat

RECEIVED
AUG 15 1988
DIVISION OF OIL, GAS & MINING

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1980' FNL, 2055' FWL
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 29, T10S, R17E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-013-30327		Duchesne	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9-1-74	11-30-74	3-1-75	6173' GR	6173' GR

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
12,402'	P & A		→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 10,535-607, 10,902-11,085, 11,142-12,130

25. WAS DIRECTIONAL SURVEY MADE:

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, DLL, SP, FDC, CNL, CAL, CBL, Sonic "F" log, Coriband-Saraband

27. WAS WELL CORED: Yes

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	64'	24"	Cmt'd to surface	
8-5/8"	24#	3,014'	11"	1700 sx to surface	
5-1/2"	17#/20#	12,390'	7-7/8"	1140 sx 'G' + 4% gel	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	10,487'	N/A

31. PERFORATION RECORD (*Interval, size and number*)
10,535'-12,130'
47 holes
2" tubing guns

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
10,535-12,130	388,400 gal polymulsion
	875,000 lbs sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
Tested 2-28-75	Flowing	P&A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-28-75	24				290	17	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Mike McMican Michael L. McMican TITLE Petroleum Engineer DATE Aug. 11, 1988

*(See Instructions and Spaces for Additional Data on Reverse Side)

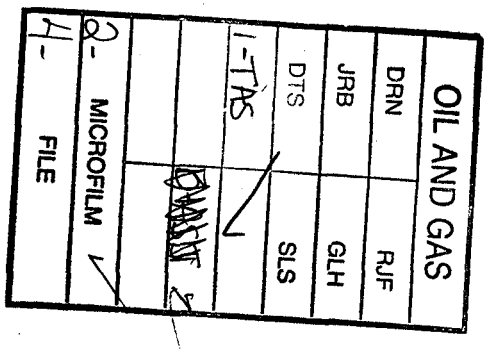
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Uinta Fm.	Surface	
Green River	1792'	1792'
Wasatch	5130'	5130'
Mesaverde	9310'	9310'



Copies: ~~Div OG&M~~; Ralph E. Davis; Paulsell; Furtado; Hill; Jorgensen; Culp; MClarke; IChai

MAY 15 1989

Division of OIL, GAS & MINING

FILING FOR WATER IN THE STATE OF UTAH

RECEIVED
APR 21 1989
WATER RIGHTS
SALT LAKE

Rec. by VP
Fee Rec. 30.00
Receipt # 26073
Microfilmed
Roll #

APPLICATION TO APPROPRIATE WATER

TEMPORARY

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Title 73, Chapter 3 of the Utah Code Annotated 1953, as amended.

WATER RIGHT NUMBER: 49 - 1458 APPLICATION NO. T63872

1. PRIORITY OF RIGHT: April 18, 1989 FILING DATE: April 18, 1989

2. OWNER INFORMATION
Name: West Hazmat Trucking Corp. Interest: 100 %
Phone: (801) 722-3654
Address: PO Box 1667, Vernal, UT 84078

3. QUANTITY OF WATER: 20.0 acre feet (Ac. Ft.)

4. SOURCE: White River DRAINAGE: SE Unita Basin
which is tributary to Green River
POINT(S) OF DIVERSION: COUNTY: Uintah
(1) N. 400 feet, W. 1850 feet, from the E¼ Corner of Section 2,
Township 10 S, Range 24 E, SLB&M
Description of Diverting Works: Pump from river into trucks
COMMON DESCRIPTION: 3 Mi. S. of Bonnanza

5. NATURE AND PERIOD OF USE
Oil Exploration From April 19 to April 18.

6. PURPOSE AND EXTENT OF USE
Oil Exploratio: Oil well drilling in the Ashpalt Wash area.

EXPLANATORY

Cochrane Resources - Wilkin Ridge 22-29 43-013-30327

Appropriate

****

The applicant hereby acknowledges he/they are a citizen(s) of the United States or intends to become such a citizen.

****

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

****

The undersigned hereby acknowledges that even though he/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained therein, at the time of filing, rests with the applicant(s).

Dale Price

Signature of Applicant

STATE ENGINEER'S ENDORSEMENT

WATER RIGHT NUMBER: 49 - 1458 APPLICATION NO. T63872

1. April 18, 1989 Application received by VP.

2. April 18, 1989 Application designated for APPROVAL by RWL and KLJ.

3. Comments:

Conditions:
This application is hereby APPROVED, dated May 12, 1989, subject to prior rights and this application will expire on May 12, 1990.

Robert L. Morgan

Robert L. Morgan, P.E.
State Engineer

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-65632

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Federal

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Wilkens Ridge

9. WELL NO.: 22-29

10. FIELD AND POOL, OR WILDCAT: Wildcat (001)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 29, T10S,R17E, SLB&

1a. TYPE OF WORK: DRILL [X] Re-enter DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

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DIVISION OF OIL, GAS & MINING

2. NAME OF OPERATOR: Cochrane Resources, Inc.

3. ADDRESS OF OPERATOR: P.O. Box 1656 Roosevelt, Utah 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980 FNL 2055 FWL Sec 29, T10S, R17E S.L.B.& M.
At proposed prod. zone: SE NW

12. COUNTY OR PARISH: Duchesne — 13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 28 Miles South of Myton, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1980'

16. NO. OF ACRES IN LEASE: 1238

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 5100' G.R. Green River

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6172' GR

22. APPROX. DATE WORK WILL START*: October 15, 1989

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14	13 3/8"	48	64'	Csg is in place
10 1/4"	8 5/8"	24	3015'	Csg is in place
7 7/8"	5 1/2"	17	12,390'	Csg is in place

Well has 13 3/8" csg set to 64', 8 5/8" csg set to 3015' and cemented to surface. 5 1/2" csg was run to 12,390' and cemented with 1140 sks cement. Estimated cement top for 5 1/2" is 11,300'

When well was plugged, plugs were set as follows:

CIBP at 10,490' with 10 sks cement on top.
Retainer at 8300' with cement from 8300' to 8500' inside and outside of 5 1/2" csg.
Retainer at 4900' with cement from 4900' to 5100' inside and outside of 5 1/2" csg.
Cement from 2914' to 3120' inside and outside of 5 1/2" csg.
Cement from surface to 200' inside and outside of 5 1/2" csg.

All csg strings were cut off below surface. A workover rig will be used to tie back onto 5 1/2" csg and to drill out cement plugs to a depth of 5050'. The Green River will be completed at 4950'.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED: [signature] TITLE: President DATE: September 7, 1989

(This space for Federal or State office use)

PERMIT NO. 43-013-30327 APPROVAL DATE

APPROVED BY TITLE

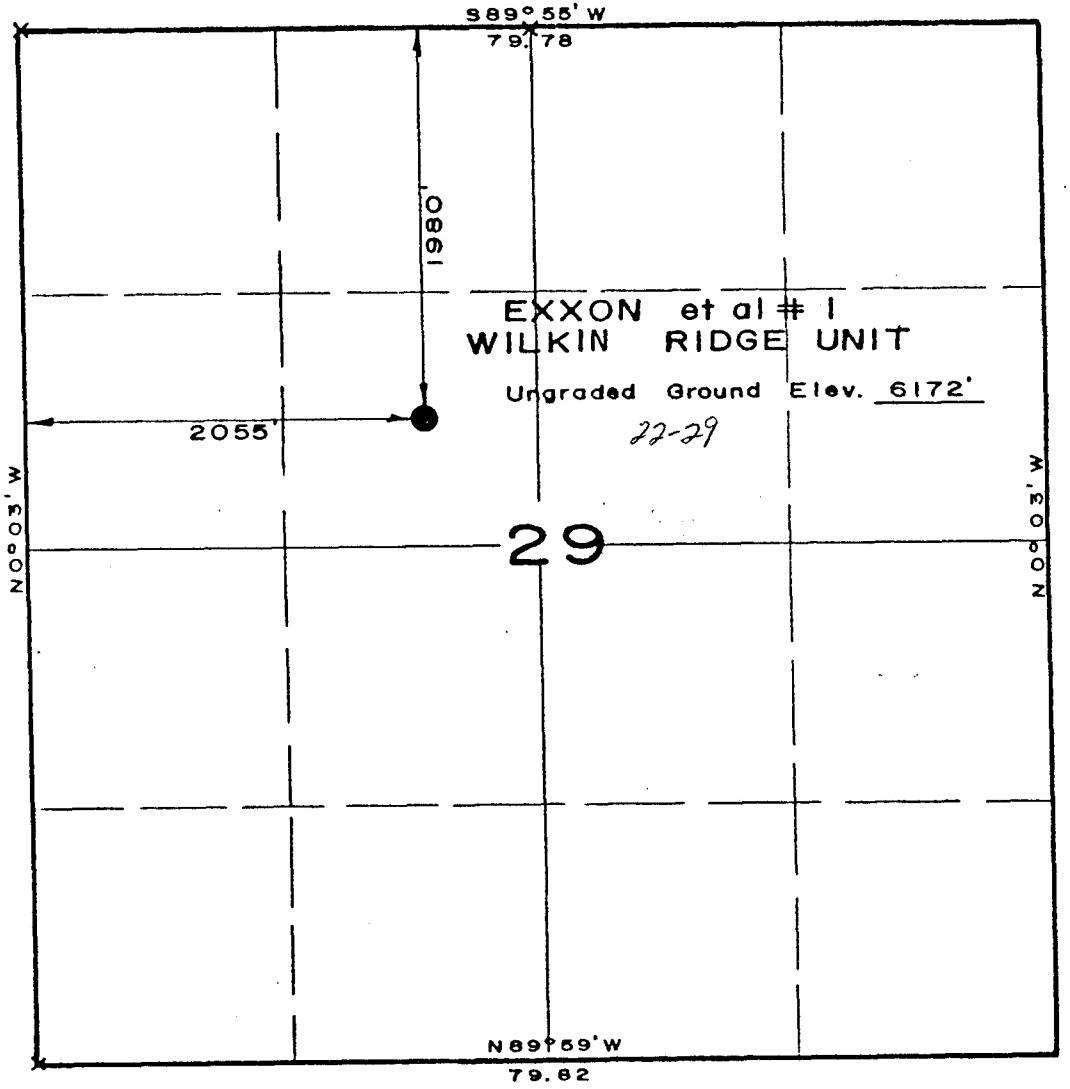
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9-18-89
BY: John R. Baza
WELL SPACING: R615-3-2

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

T10S, R17E, S. L. M.



X = Corners Found and Used (Brass Cap).

CONFIDENTIAL

PROJECT

EXXON

Well location, *EXXON et al # 1 WILKIN RIDGE UNIT*, located as shown in the SE 1/4 NW1/4 Section 29, T10S, R17E, S.L.M., Duchesne County, Utah

Cochrane Resources Inc.
Fed 22-29

RECEIVED
SEP 1 1 1974

DIVISION OF
OIL, GAS & MINING

N

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Terrance C. Kay

REGISTERED LAND SURVEYOR
REGISTRATION Nº 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q ~ 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 29 June 1974
PARTY L. Kay & J. Lietke	REFERENCES GLO Plat
WEATHER Hot	FILE Exxon

8 POINT COMPLIANCE PROGRAM

RECEIVED
SEP 11 1989
DIVISION OF
OIL, GAS & MINING

WELL NAME: Cochrane Federal 22-29

LOCATION: S.E. of N.W. Sec 29, T 10S, R17E, S.L.M.

LEASE NO.: U-65632

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

Drillout will start in the Uintah Formation. Green River at 1792'.

2. Estimated Depth at Which Oil, Gas, Water or Other Minerals Bearing Zones are Expected to be Encountered:

None are expected.

Oil production is expected at 4950'. All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment:

The rig will be equipped with 6", 5000 PSI, double ram B.O.P.'S. Pipe rams and blind rams will be tested to 2000 PSI. Pipe rams will be operationally checked each day and blind rams every trip out of the hole. Accessories to B.O.P.'S include Kelly Cock and Floor Safety Valve. Blowout preventer controls will be installed prior to drilling the 5 1/2" casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order and this inspection will be recorded on the daily drilling report.

The District Office should be notified with sufficient lead time, in order to have a BLM representative on location during pressure testing.

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8 POINT COMPLIANCE PROGRAM

WELL NAME: Cochrane Federal 22-29

4. Casing Program and Auxiliary Equipment:

3015' of 8 5/8", 24/ft. casing is set and cemented to surface. 5 1/2" 17# csg is also set to 12,390'.

5. Mud Program and Circulating Medium:

0' - 5050' Drill out csg with fresh water.

No chromate additives will be used in the mud system on Federal and Indian Lands without prior approval to ensure adequate protection of fresh water aquifers.

6. Coring, Logging and Testing Program:

No open hole logs or mud logs will be run.

Whether the well is completed as a dry hole or a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3163. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all the surveys or data obtained and complied during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cutting, fluids, and/or gases) will be submitted when requested by the authorized officer. (AO).

7. Abnormal Conditions, Bottom Hole Pressure and Potential Hazards:

No abnormal conditions or potential hazards are anticipated as none were encountered during the drilling.

8. Anticipated Starting Dates and Notifications of Operations:

Location Construction: N.A.

Spud Date: October 15, 1989

No work will start, no well will be plugged and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended prior approval of the AO will be obtained and notification given before resumption of operations.

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DIVISION OF
OIL, GAS & MINING

8. Continued:

The spud date will be reported to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No.1, this well be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM District Office, 170 South 500 East, Vernal, Utah 84078.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notifications will be sent by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of the District Engineer, produced water may be temporarily disposed of into lined pits for a period of up to 90 days. During the period so authorized, an application for approval of the disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, any venting/flaring of gas beyond the initial 30 days or authorized test period.

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DIVISION OF
OIL, GAS & MINING

8. Continued:

A Schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43-CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations oral approval will be obtained from the AO. A "Subsequent Report of abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Order No.1, leasses and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal and Indian lands.

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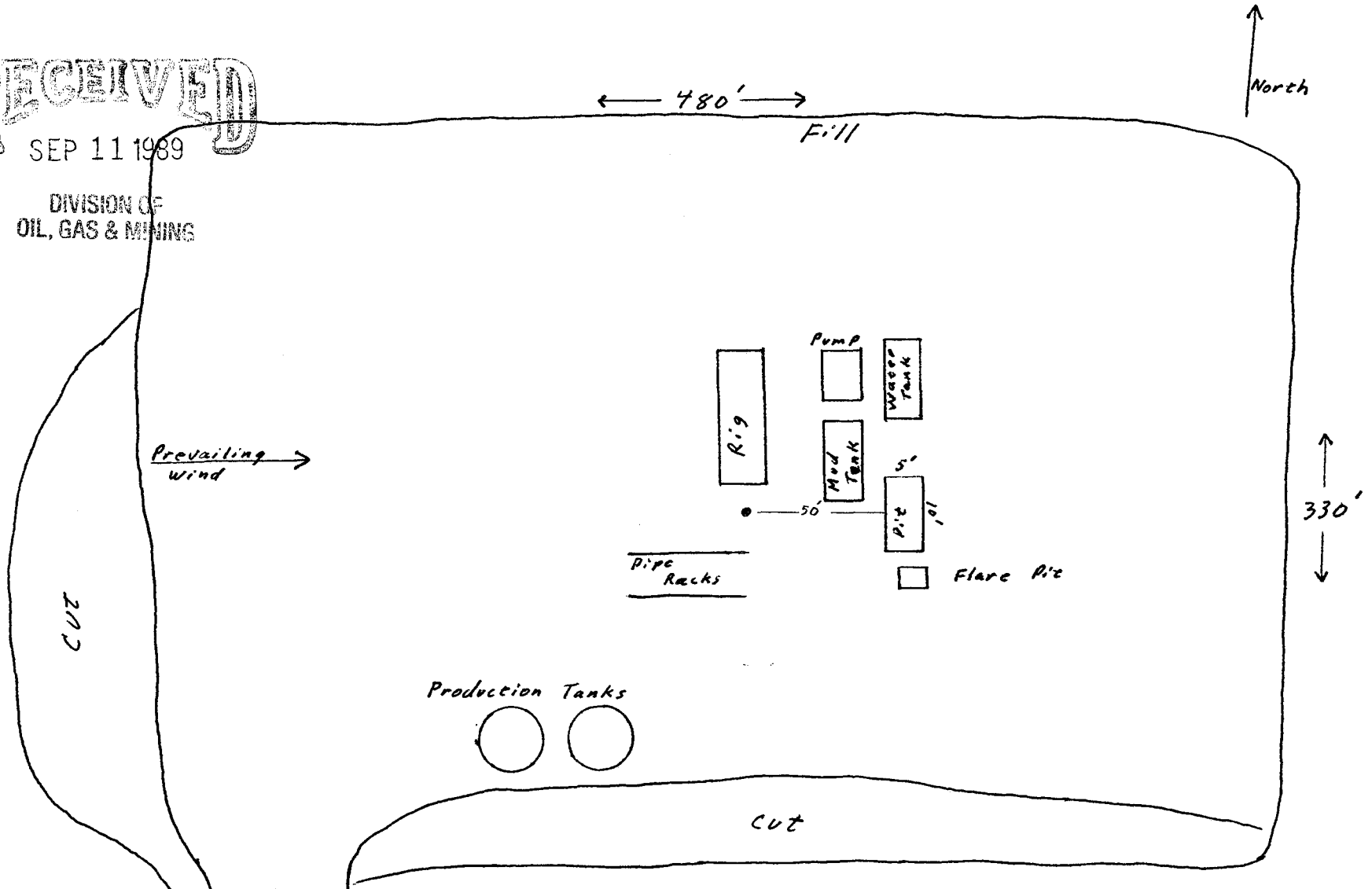
DIVISION OF
OIL, GAS & MINING



Note: Existing Road and location
Exxon Fed Wilken Ridge Unit #1
Pluged + abandon August 1988

Cochrane Resources Inc
Fed 22-29
Sec 29 Twp 10S Rge 17E
Duchesne County Utah

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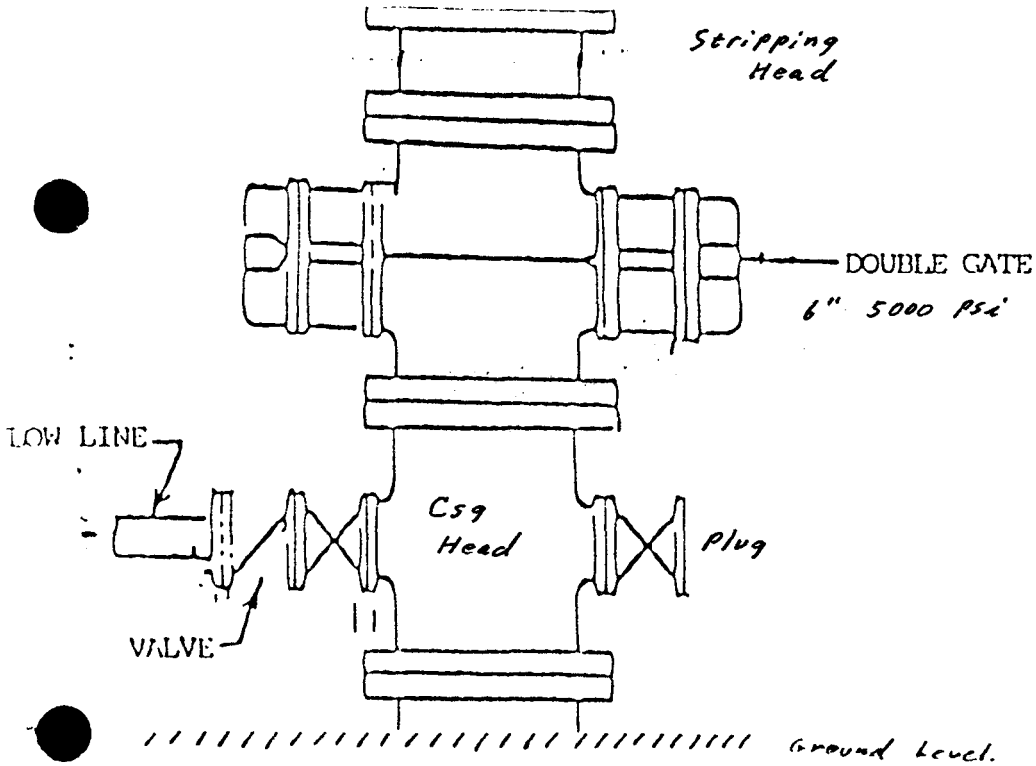
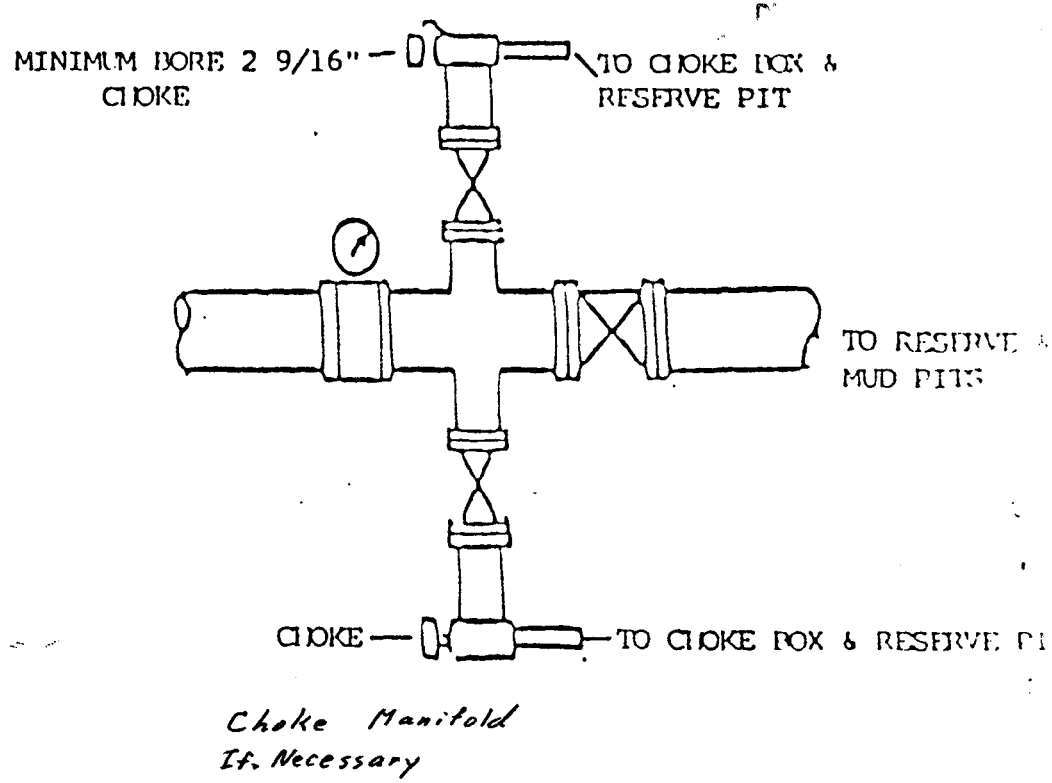
SEP 11 19





Choke Manifold
If Necessary

DIAGRAM "C"

Rochrane Federal 22-29

Re-Entry

OPERATOR Cochrane Resources Inc. (N7015) DATE 9-11-89

WELL NAME Wilkin Ridge 22-29

SEC SENW 29 T 10S R 17E COUNTY Duchesne

43-013-30327
API NUMBER

Federal
TYPE OF LEASE

CHECK OFF:

- [x] PLAT
- [x] BOND
- [x] NEAREST WELL
- [x] LEASE
- [x] FIELD
- [x] POTASH OR OIL SHALE

PROCESSING COMMENTS:
No other well within 920'
Need Water Permit
Original well "Wilkin Ridge Unit #1" P A'd 8-9-88
~~RDCC 9-13-89. / process~~ Existing well RDCC not necessary.

APPROVAL LETTER:

SPACING: [ ] R615-2-3 N/A UNIT [x] R615-3-2

[ ] N/A CAUSE NO. & DATE [ ] R615-3-3

STIPULATIONS:
1. Water Permit

0218T

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

September 18, 1989

Cochrane Resources Incorporated
P. O. Box 1656
Roosevelt, Utah 84066

Gentlemen:

Re: Wilkin Ridge 22-29 - SE NW Sec. 29, T. 10S, R. 17E - Duchesne County, Utah
1980' FNL, 2055' FWL

Approval to re-enter the referenced well is hereby granted in accordance with Rule R6l5-3-2, Oil and Gas Conservation General Rules, subject to the following stipulation:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change,
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (80l) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-93l8.
5. Compliance with the requirements of Rule R6l5-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

an equal opportunity employer

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.

7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-30327.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

lcr
Enclosures
cc: Bureau of Land Management
D. R. Nielson
J. L. Thompson
WE14/3-4

43-013-30327

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED
OCT 12 1989
DIVISION OF
OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: U-65632

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Federal

1a. TYPE OF WORK: DRILL [X] Re-enter DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Wilkens Ridge

2. NAME OF OPERATOR: Cochrane Resources, Inc.

9. WELL NO.: 22-29

3. ADDRESS OF OPERATOR: P.O. Box 1656 Roosevelt, Utah 84066

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980 FNL 2055 FWL Sec 29, T10S, R17E S.L.B.& M.
At proposed prod. zone: SE NW

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 29, T10S,R17E, SLB&

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 28 Miles South of Myton, Utah

12. COUNTY OR PARISH: Duchesne | 13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1980'	1238	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
	5100' G.R.	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6172' GR

22. APPROX. DATE WORK WILL START*: October 15, 1989

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14	13 3/8"	48	64'	Csg is in place
10 1/4"	8 5/8"	24	3015'	Csg is in place
7 7/8"	5 1/2"	17	12,390'	Csg is in place

Well has 13 3/8" csg set to 64', 8 5/8" csg set to 3015' and cemented to surface. 5 1/2" csg was run to 12,390' and cemented with 1140 sks cement. Estimated cement top for 5 1/2" is 11,300'

When well was plugged, plugs were set as follows:

CIBP at 10,490' with 10 sks cement on top.
Retainer at 8300' with cement from 8300' to 8500' inside and outside of 5 1/2" csg.
Retainer at 4900' with cement from 4900' to 5100' inside and outside of 5 1/2" csg.
Cement from 2914' to 3120' inside and outside of 5 1/2" csg.
Cement from surface to 200' inside and outside of 5 1/2" csg.

All csg strings were cut off below surface. A workover rig will be used to tie back onto 5 1/2" csg and to drill out cement plugs to a depth of 5050'. The Green River will be completed at 4950'.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED [signature] TITLE President DATE September 7, 1989

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY [signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE 10-11-89

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

*See Instructions On Reverse Side

DOGM
UT080-9M43

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Cochrane Resources, Inc. Well No. 22-29

Location SENW Sec. 29 T10S R17E Lease No. U-65632

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Drilling Requirements

The plug from +4900-5100 ft. is to be drilled out and a new balanced plug is to be placed from ±5050-5250 ft. The new plug is to be tagged to ensure placement.

2. Other Information

Notifications of Operations

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or work-over program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to $10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An additional one (1) year approval period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hour approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka Petroleum Engineer	(801) 781-1190
Ed Forsman Petroleum Engineer	(801) 789-7077

Revised October 1, 1985

CONDITIONS OF APPROVAL FOR THE SURFACE USE PROGRAM OF THE APPLICATION FOR PERMIT TO DRILL

Company/Operator Cochrane Resources, Inc.

Well Name & Number Wilken Ridge 22-29

Lease Number U-65632

Location SE 1/4 NW 1/4 Sec. 29 T.10 S. R.17 E.

Surface Ownership Bureau of Land Management

B. THIRTEEN POINT SURFACE USE PROGRAM:

1. Methods for Handling Waste Disposal

Fluids shall not be placed in the reserve pit. The reserve pit which will have dimensions of approximately 5 feet X 10 feet, will not require a liner. It will be a repository for cuttings.

On BLM administered lands:

Produced waste water will be confined to a (lined/unlined) pit or, if deemed necessary, a storage tank for a period not to exceed 90 days after first production. During the 90-day period an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

2. Well Site Layout

All pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed. Pits will be fenced and maintained until clean-up.

The fence will be constructed as prescribed in the USGS Publication (1978) Surface Operating Standards for Oil and Gas Development.

The flare pit will be located a minimum of 30 feet from the reserve pit fence and 100 feet from the bore hole on the east side of the location, and downwind of the location. All fluids will be removed from the pit within 48 hours of occurrance.

3. Plans for Restoration of Surface

The following are provisions to be addressed in the restoration plan:

Immediately upon well completion, the location and surrounding area will be cleared of all debris, materials, trash, junk, and any unnecessary equipment not required for production.

Topsoil will not be stockpiled, because there is no topsoil. Surface of location has a high proportion of fractured shale.

If the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

4. Other Additional Information

Additional Surface Stipulations for BLM, BIA, FS, DWR, or Private Surface Lands:

Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on this wellsite or on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities (The BLM does not seek to compete with private industry. There are commercial facilities available for stacking and storing drilling rigs).

WATER PERMIT T63872 (49-1458)

DIVISION OF OIL, GAS AND MINING

API NO. 43-013-30327

SPUDDING INFORMATION

NAME OF COMPANY: COCHRANE RESOURCES, INC.

WELL NAME: WILKIN RIDGE 22-29

SECTION SENW 29 TOWNSHIP 10S RANGE 17E COUNTY DUCHESNE

DRILLING CONTRACTOR PENNANT WELL SERVICES

RIG # 12

SPUDDED: DATE 10/19/89

TIME 2:00 p.m.

HOW ROTARY

DRILLING WILL COMMENCE _____

REPORTED BY KEN ALLEN

TELEPHONE # 722-5081

DATE 10/26/89 SIGNED TAS

COCHRANE RESOURCES, INC.

Engineering
Wellsite Supervision
Lease Operating

P.O. Box 1656
Roosevelt, Utah 84066
Phone (801) 722-5081

RECEIVED
OCT 23 1989
DIVISION OF
OIL, GAS & MINING

October 20, 1989

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Cochrane Federal 22-29
Sec 29, T10S, R17E

Dear Sir:

Please be advised that the re-entry of the subject well was started on October 19, 1989. Please Advise if you have any questions.

Yours truly,

Ken Allen

KBA/da

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM – FORM 6

OPERATOR Cochrane Resources Inc

OPERATOR ACCT. NO. N7015

ADDRESS P.O Box 1656
Roosevelt Utah 84066

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	11030	43-013-30327	Wilkin Ridge ~~Cochrane Federal~~ 22-29	SE/NW	29 ~~22~~	10S	17E	Duchesne	Oct 19-1989	

WELL 1 COMMENTS: Federal-Lease Proposed Zone - GRRV
Field-Wildcat (This well was originally assigned entity 9207, was a GW and produced from MVRD.)
Unit - N/A It is now being re-entered for prod. from GRRV, OW. Assign new entity 11030 on 10-25-89. jlk

WELL 2 COMMENTS:

WELL 3 COMMENTS:

WELL 4 COMMENTS:

WELL 5 COMMENTS:

ACTION CODES (See instructions on back of form)
- A – Establish new entity for new well (single well only)
- B – Add new well to existing entity (group or unit well)
- C – Re-assign well from one existing entity to another existing entity
- D – Re-assign well from one existing entity to a new entity
- E – Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

RECEIVED
OCT 23 1989
DIVISION OF
OIL, GAS & MINING

Signature

President 10/20/89
Title Date

Phone No. (801) 722-5081

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
DEC 22 1989
DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Cochrane Resources, Inc.

3. ADDRESS OF OPERATOR: P.O. Box 1656 Roosevelt, Utah 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1980 FNL, 2055 FWL

5. LEASE DESIGNATION AND SERIAL NO.: U-65632

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Federal

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Wilkens Ridge

9. WELL NO.: 22-29

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 29, T10S,R17E SLB&M

14. PERMIT NO.: 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6172'GR

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Application is hereby made to maintain an unlined pit on location for emergency use. The pit will be fenced and kept free of trash.

Accepted by the State of Utah Division of Oil, Gas and Mining
Date: 12-28-89
By:

OIL AND GAS	
DRN	RJF
JRB	1- GLH
DTS	SLS
2-TAS	
3- MICROFILM	
4- FILE	

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE President DATE December 21, 1989

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Federal Approval of this Action is Necessary

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

6

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-65632

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Federal

7. UNIT AGREEMENT NAME:

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other Re-entry

8. FARM OR LEASE NAME: Wilkens Ridge

2. NAME OF OPERATOR: Cochrane Resources, Inc.

9. WELL NO.: 22-29

3. ADDRESS OF OPERATOR: P.O. Box 1656 Roosevelt, Utah 84066

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1980' FNL, 2055 FWL
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec 29, T10S,R17E SLB&M

RECEIVED
DEC 22 1989
DIVISION OF OIL, GAS & MINING

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-013-30327	10/11/89	Duchesne	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10/19/89	10/23/89	12/4/89	6172' GR	6172'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5125'	5025'		→	0-5125	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 4950' - 4964' GRRV

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Cement Bond Log

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24	3015	10 3/4"	to surface	
5 1/2"	17	12,390	7 7/8"	1140 SKS	

Note: All csg was in place when re-entry began

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	4977'	None

31. PERFORATION RECORD (Interval, size and number)
4050' - 4964'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5030 - 4878	Place cement behind csg
4950 - 4964	500 gals 12 1/2% Hcl

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
Dec 4, 1989	Pumping	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12/18-19/89	48	None		58	30	0	517

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
0	15		29	15	0	37.2

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Used for fuel

TEST WITNESSED BY: Ken Allen

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [signature] TITLE President DATE December 21, 1989

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED NOV 2 1990 DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER	5. LEASE DESIGNATION AND SERIAL NO.: U-65632
2. NAME OF OPERATOR: Cochrane Resources, Inc.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Federal
3. ADDRESS OF OPERATOR: P.O. Box 1656 Roosevelt, Utah 84066	7. UNIT AGREEMENT NAME:
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' FNL, 2055' FWL	8. FARM OR LEASE NAME: Wilkens Ridge
	9. WELL NO.: 22-29
	10. FIELD AND POOL, OR WILDCAT:
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 29, T10S, R17E SLB&
14. PERMIT NO.: 43-013-30327 (POW)	15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6172; GR
	12. COUNTY OR PARISH: Duchesne
	13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF [ ]	PULL OR ALTER CASING [ ]	WATER SHUT-OFF [ ]	REPAIRING WELL [ ]
FRACTURE TREAT [ ]	MULTIPLE COMPLETE [ ]	FRACTURE TREATMENT [ ]	ALTERING CASING [ ]
SHOOT OR ACIDIZE [ ]	ABANDON* [ ]	SHOOTING OR ACIDIZING [ ]	ABANDONMENT* [ ]
REPAIR WELL [ ]	CHANGE PLANS [ ]	(Other)	
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Water production from the 22-29 well has been 1 to 2 bbls per month.

Application is hereby made to dispose of this water into an unlined pit on location.

If the volume of water produced should exceed 5 bbls per day, the water will be hauled to a state approved site.

Accepted by the State of Utah Division of Oil, Gas and Mining
Date: 11/28/90
By:

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE President DATE November 1, 1990

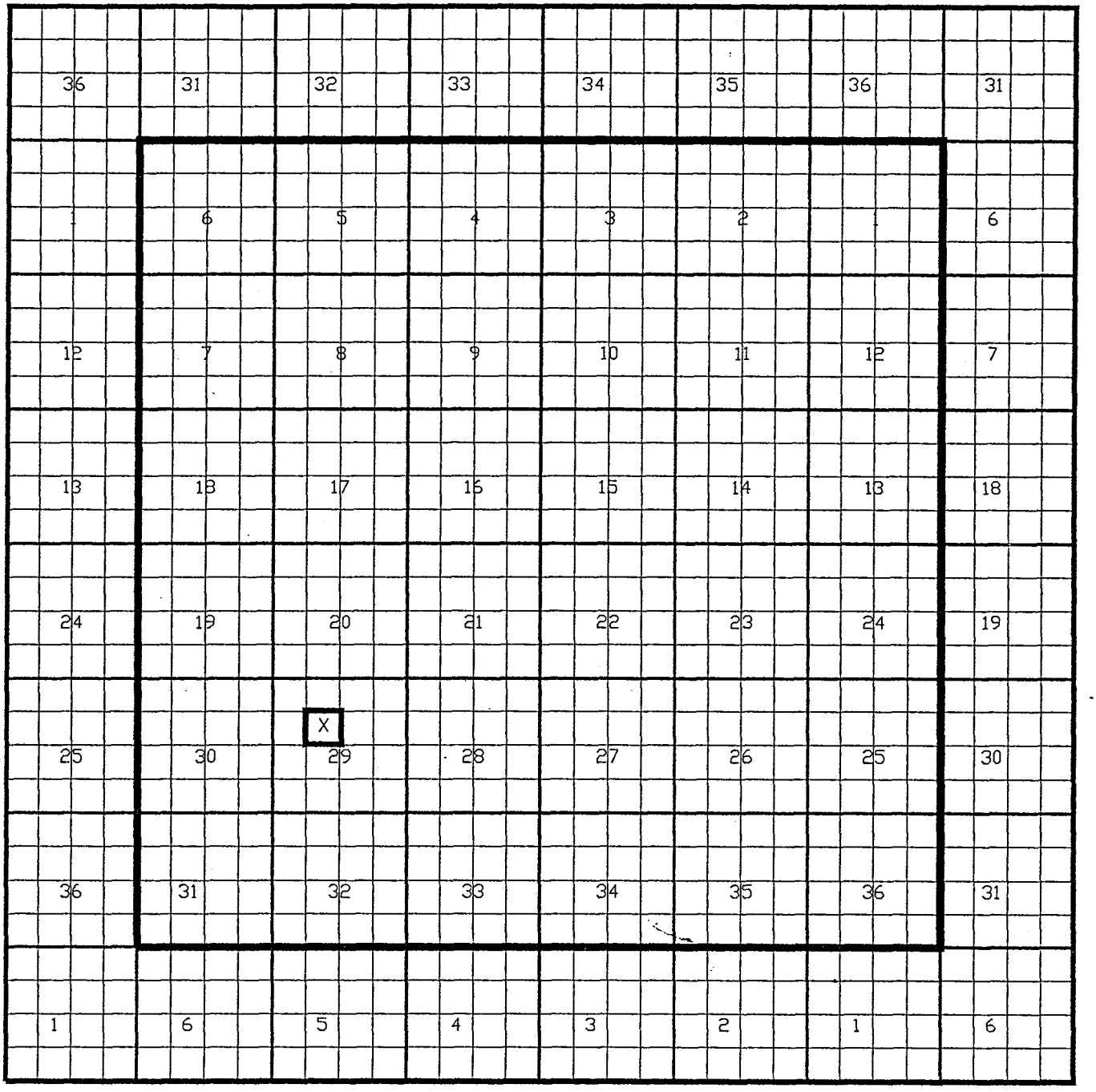
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Federal Approval of this Action is Necessary

*See Instructions on Reverse Side

UNNAMED 29-10S17E



T. 10S

R. 17E

TOWNSHIP 10 SOUTH, RANGE 17 EAST - DUCHESNE COUNTY

SECTION 29: SE/4 NW/4 - 080

Cochrane

Wilkin Ridge 08-09 43-013-30307

APRIL 1990
GREEN RIVER POOL

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO
U-65632

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Federal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Wilkens Ridge

9. WELL NO.
22-29

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 29, T10S, R17E

12. COUNTY OR PARISH | 13. STATE

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Cochrane Resources, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 1656 Roosevelt, Utah 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

14. PERMIT NO.
43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[✓]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well was sand fraced on April 30, 1991 with 26,000 lbs of 20/40 sand and 6,000 lbs of 16/30 sand with gelled water. Production perfs are 4950' - 4964'.

RECEIVED
MAY 16 1991
DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE President DATE May 15, 1991

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

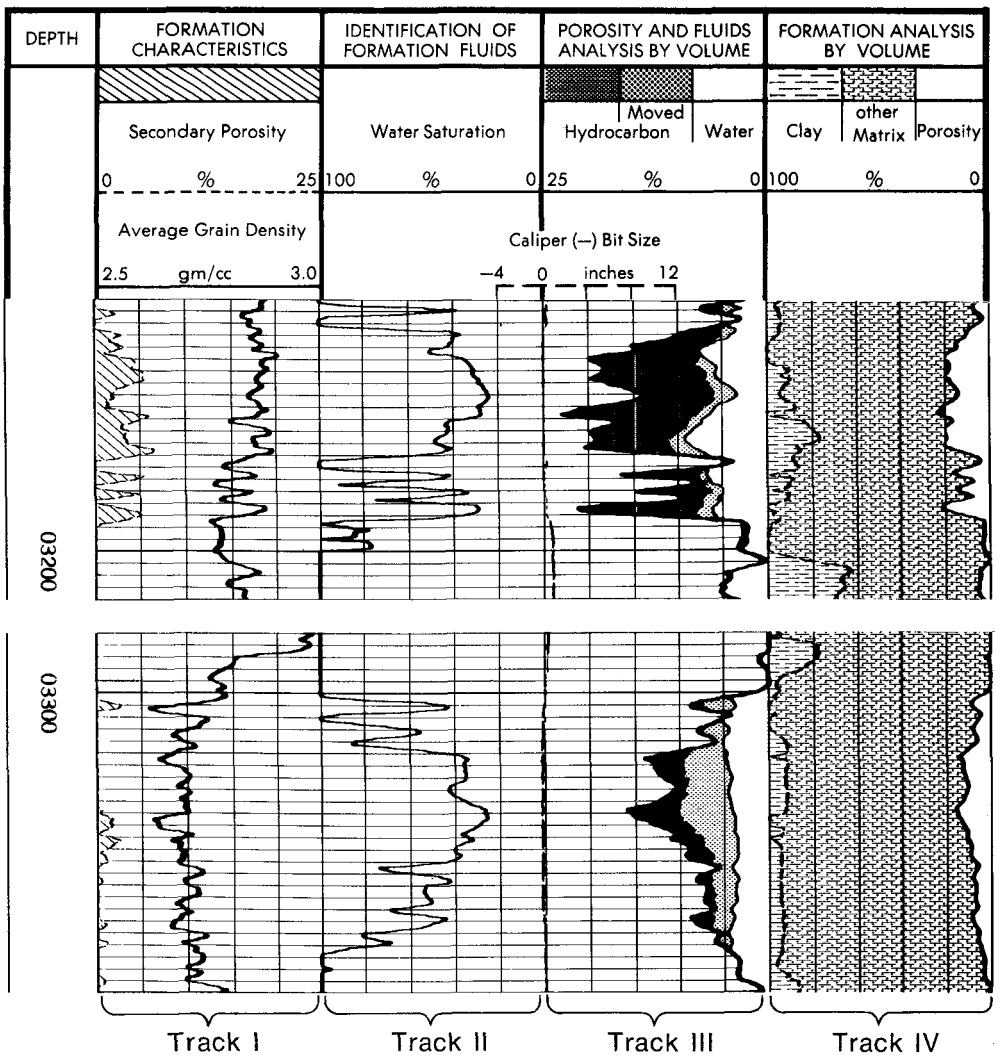
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CORIBAND

Analysis of

Complex

Reservoirs



Formation Characteristics - Track I

Secondary Porosity. This is the porosity other than intergranular such as vugular porosity. The coding for this curve is shown above the track.

Average Grain Density. This is the computed apparent grain density of the formation—including the clay. Lithology may be identified from this curve under most circumstances. It is also an excellent correlation curve.

Identification of Formation Fluids - Track II

Water Saturation. This curve indicates the percentage of clay-free pore space filled with water. It is assumed that hydrocarbons occupy that portion of clay-free pore space not occupied by water.

Porosity and Fluids Analysis (% of Bulk Volume) - Track III

The information in this track is similar to a "Movable Oil Plot" when flushed zone resistivity has been measured. Coding symbols are shown above the track.

Porosity. This outermost curve to the left represents total clay-free porosity both primary and secondary. This porosity also represents the % of bulk volume available for fluids.

Water-Filled Porosity. This innermost curve to the right represents the water in the pore space (in % of bulk volume) in the formation far from the borehole. The area under this curve is usually greater in water productive zones than it is in hydrocarbon productive zones. The area between the porosity and water-filled porosity curves represents the % of bulk volume containing hydrocarbons.

Flushed Zone Water-Filled Porosity. This curve is presented when the "flushed" zone resistivity is available. The area between this curve and the water-filled porosity curve represents the volume of hydrocarbons in % of bulk volume, which have been moved from the flushed zone near the borehole.

Formation Analysis by Volume - Track IV

This track is divided into clay volume, other matrix, and porosity, according to the codings above the track.

Clay Volume. This left-most curve represents the percentage of clay computed from special logic relating clay indicators (SP, GR, etc.) to the bulk volume fraction of clay. This is an excellent correlation curve through shaly formations.

Other Matrix. This area between porosity and clay represents the percentage sum of all other solids present in the formation.

Porosity. This is the same clay-free porosity as that presented in Track III.

Caliper (-) Bit Size.

Located in Tracks II and III, this curve represents hole size minus bit size in inches. This presentation indicates both hole enlargement and the presence of mudcake.

Tabular Listing

1	2	3	4	5	6	7	8	9
DEPTH FEET	PERM. INDEX MD.	WATER SAT. %	POROSITY TOTAL %	SEC. %	MATRIX DENSITY GM/CC	CLAY VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	HC-FT
3146.0		100	1.6	.0	2.85	8	44.32	11.30
3147.0		100	1.4	.0	2.83	7	44.30	11.30
3148.0		100	1.5	.0	2.83	7	44.29	11.30
3149.0		100	1.3	.0	2.85	14	44.27	11.30
3150.0		100	1.6	.0	2.86	21	44.26	11.30
3151.0		100	2.8	.0	2.82	22	44.24	11.30
3152.0		100	3.1	.0	2.82	22	44.21	11.30
3153.0		100	2.7	.0	2.79	18	44.18	11.30
3154.0		100	2.8	.0	2.83	16	44.15	11.30
3155.0		100	3.2	.0	2.83	17	44.13	11.30
3156.0		100	2.5	.0	2.87	23	44.09	11.30
3157.0		100	1.9	.0	2.93	26	44.07	11.30
3158.0		100	1.2	1.2	2.93	22	44.05	11.30
3159.0		100	3.8	.8	2.90	9	44.04	11.30
3160.0		49	7.7	1.1	2.88	3	43.99	11.29
3161.0		56	6.8	2.1	2.82	5	43.91	11.25
3162.0		100	4.0	.2	2.86	5	43.85	11.23
3163.0		96	4.9	.1	2.85	6	43.81	11.23
3164.0		41	8.5	1.8	2.87	5	43.76	11.22
3165.0		42	10.0	1.7	2.83	5	43.67	11.16
3166.0		42	13.3	2.4	2.86	2	43.56	11.10
3167.0		51	14.2	2.0	2.83	0	43.42	11.02
3168.0		38	19.0	5.1	2.92	0	43.27	10.95
3169.0		34	19.5	4.2	2.86	0	43.08	10.82
3170.0		31	18.2	4.5	2.88	2	42.89	10.70
3171.0		31	18.1	5.2	2.86	9	42.70	10.57
3172.0		28	19.8	5.2	2.84	6	42.52	10.44
3173.0		26	17.7	3.3	2.87	9	42.33	10.31
3174.0		25	15.0	1.7	2.83	6	42.16	10.19
3175.0		24	13.7	1.7	2.82	5	42.02	10.08
3176.0		26	16.1	1.2	2.85	7	41.88	9.97
3177.0		27	21.1	3.0	2.89	12	41.71	9.85
3178.0		27	22.9	5.7	2.85	0	41.49	9.70
3179.0		44	16.7	3.5	2.76	7	41.28	9.55
3180.0		42	18.4	2.7	2.87	17	41.11	9.46
3181.0		42	20.0	3.6	2.89	20	40.92	9.35
3182.0		47	19.3	3.4	2.84	22	40.73	9.24
3183.0		44	19.7	4.6	2.85	21	40.53	9.14
3184.0		42	17.9	7.8	2.91	13	40.33	9.02
3185.0		81	8.2	2.4	2.82	12	40.18	8.94
3186.0		100	3.7	.0	2.77	11	40.11	8.93
3187.0		99	7.2	.0	2.77	13	40.07	8.93
3188.0		41	16.4	5.1	2.85	6	39.97	8.90
3189.0		82	7.8	1.6	2.73	11	39.82	8.82
3190.0		59	9.2	.0	2.76	9	39.75	8.81
3191.0		34	14.5	4.4	2.82	2	39.64	8.75
3192.0		84	6.7	.0	2.75	9	39.52	8.68
3193.0		30	18.3	1.8	2.86	4	39.43	8.65

CORIBAND

Analysis of Complex Reservoirs

The tabular listing shown on the opposite page presents answers in a numerical form for further analysis.

Column 1. Depth in feet

Column 2. Permeability index in millidarcies (optional)

Column 3. Water saturation in per cent

Column 4. Total porosity in per cent—includes all clay-free porosity both primary and secondary

Column 5. Secondary porosity in per cent—a portion of the total porosity

Column 6. Matrix grain density in grams per cubic centimeter—clay-free average grain density

Column 7. Clay volume in percentages of bulk volume

Column 8. Cumulative porosity-feet

Column 9. Cumulative hydrocarbon-feet

The cumulative numbers in columns 8 and 9 can be used respectively to calculate reservoir pore space and volume of hydrocarbons in place. The total pore space, in barrels per acre, is equal to the difference in the numbers of column 8 at the top and bottom of the zone of interest multiplied by 7758. A similar calculation yields the total barrels per acre of hydrocarbons in place.

CORIBAND

Analysis of Complex Reservoirs

- Continuous computation of log data.
- Analog and tabular listing of results.
- Analysis of reservoirs – both clean and shaly.

CORIBAND is computed using the following parameters:

Resistivity—from the Induction Log, Laterolog and Micro-Resistivity devices.

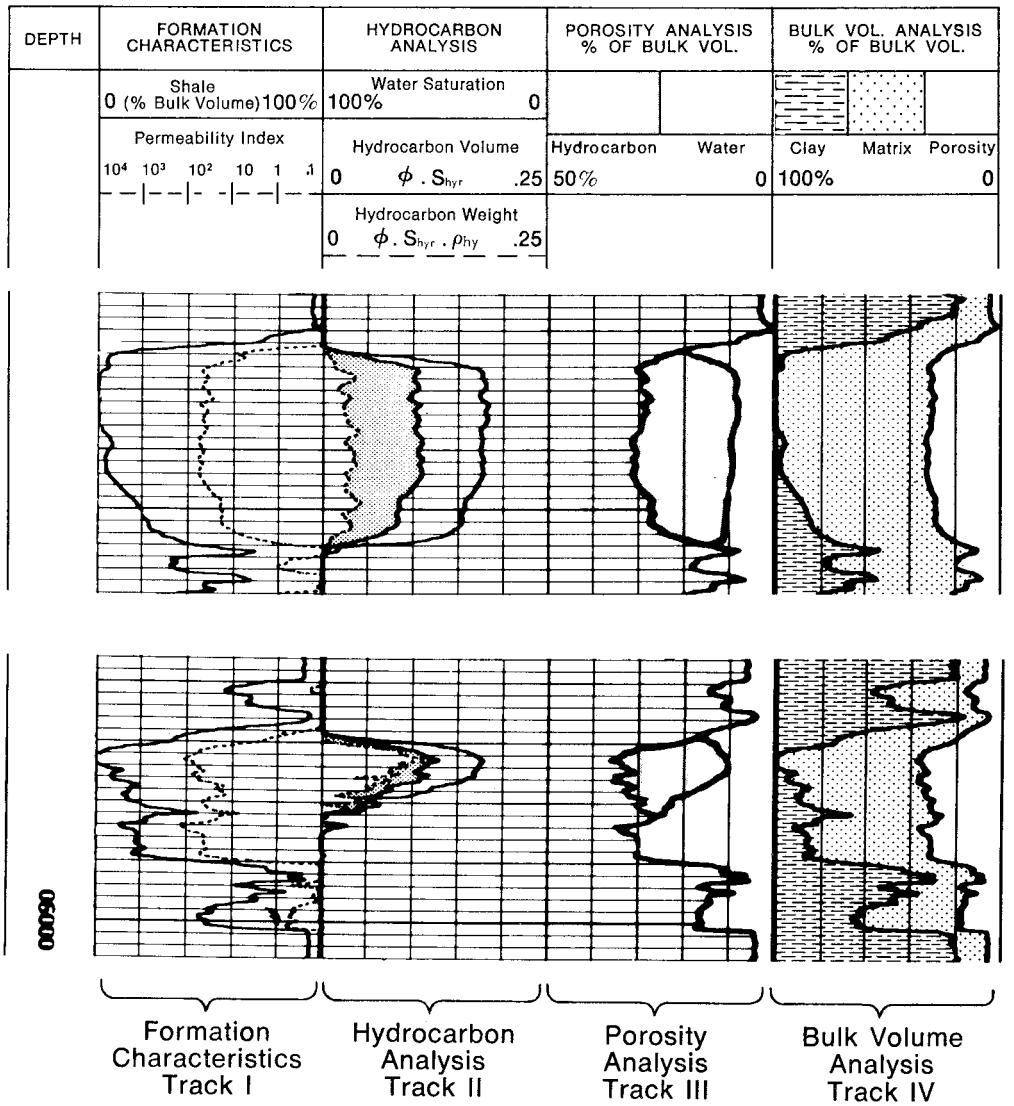
Density—from FDC—Formation Density Compensated Log.

Neutron—from SNP—Sidewall Neutron Porosity Log or CNP—Compensated Neutron Porosity Log.

Sonic—from BHC—Borehole Compensated Sonic Log.

SP, Gamma Ray and Caliper are run in conjunction with the above logs.

SARABAND A Sandstone Analysis



Formation Characteristics - Track I

Shale Volume (V_{sh})—Bulk volume fraction of shale, both wet clay and silt. V_{sh} is computed from neutron-density data from a special logic relating other shale indicators (SP, GR and Resistivity) to the volume of shale. This is an excellent correlation curve which should permit the differentiation between sands, shale and shaly sands.
Permeability Index—The scale for this curve is a 5-cycle logarithmic scale.

Hydrocarbon Analysis - Track II

Water Saturation (S_w)—Fraction of pore volume filled with formation water.
Hydrocarbon Volume ($\phi \cdot S_{hyr}$)—Residual hydrocarbon per bulk volume where S_{hyr} is residual hydrocarbon saturation.
Hydrocarbon Weight ($\phi \cdot S_{hyr} \cdot \rho_{hy}$)—Weight of residual hydrocarbon per bulk volume where ρ_{hy} is the density of the hydrocarbon.
The two curves, $\phi \cdot S_{hyr}$ and $\phi \cdot S_{hyr} \cdot \rho_{hy}$, converge in oil zones since the density of oil is close to unity. In light hydrocarbon zones, the two curves diverge.
The ratio of $\phi \cdot S_{hyr} \cdot \rho_{hy}$ to $\phi \cdot S_{hyr}$ is the hydrocarbon density.
The values of hydrocarbon density derived from the computation appear on the tabular listing.

Porosity Volume Analysis - Track III

Porosity (ϕ)—Formation porosity corrected for hydrocarbon and shale effect.
Water-filled Porosity ($\phi \cdot S_w$)—Represents the formation water in the pore space (in per cent of bulk volume).
The area between the two curves corresponds to hydrocarbon-filled porosity.

Bulk Volume Analysis - Track IV

Clay Volume (V_{clay})—SARABAND logic assumes shale to consist of wet clay and silt. V_{clay} represents only the bulk volume fraction of wet clay, whereas V_{sh} of Track I represents the total shale bulk volume (clay plus silt).
Matrix (V_{matrix})—Bulk volume fraction of non-clay solids (includes silt).
Porosity (ϕ)—Formation porosity corrected for hydrocarbon and shale effects.

Tabular Listing

1 DEPTH FEET	2 PERM INDEX MD	3 POROSITY PERCENT	4 WATER SATURATION PERCENT	5 HYDRO- CARBON DENSITY GM/CC	6 CLAY PERCENT	7 TOTAL POROSITY FEET	8 TOTAL HYDRO- CARBON FEET

Partial Listing of Gas Zone in Upper Log Example

7425	50	25.8	61	.1	2	64.57	6.59
7426	190	28.6	42	.2	2	64.85	6.74
7427	400	30.4	31	.1	2	65.15	6.93
7428	400	29.0	30	.3	0	65.44	7.14
7429	400	28.3	28	.3	0	65.73	7.34
7430	500	29.5	28	.2	0	66.02	7.55
7431	300	28.7	30	.2	0	66.31	7.76
7432	300	27.1	30	.3	0	66.59	7.95
7433	500	29.6	26	.2	0	66.88	8.16
7434	400	28.1	28	.2	0	67.16	8.36
7435	400	28.8	27	.3	0	67.45	8.57
7436	400	29.0	28	.3	0	67.74	8.78
7437	400	29.2	30	.4	1	68.03	8.99
7438	500	30.3	30	.4	2	68.33	9.19
7439	600	31.3	29	.2	3	68.64	9.41
7440	500	31.0	30	.3	4	69.95	9.63
7441	400	30.1	30	.3	2	69.26	9.84
7442	600	31.3	29	.3	1	69.57	10.06
7443	500	30.3	30	.4	2	69.87	10.27
7444	600	31.1	29	.3	2	70.18	10.49
7445	500	31.1	29	.2	3	70.49	10.71
7446	400	30.3	31	.3	4	70.80	10.92
7447	300	29.7	32	.3	6	71.10	11.13
7448	300	28.7	34	.3	8	71.39	11.32

Partial Listing of Oil-Water Zone in Lower Log Example

5968	0	11.8	100		49	1.36	.00
5969	4	15.8	99		33	1.51	.00
5970	17	19.0	78		26	1.69	.03
5971	90	25.7	49	.4	19	1.93	.14
5972	500	33.0	35	.7*	3	2.24	.33
5973	600	34.4	30	.7*	0	2.58	.56
5974	700	33.6	30	.7*	0	2.93	.81
5975	500	32.0	32	.7*	3	3.26	1.03
5976	800	35.2	32	.7*	5	3.59	1.25
5977	600	35.5	38	.7*	5	3.94	1.47
5978	160	30.1	52	.7	14	4.25	1.63
5979	170	32.1	58	.5	10	4.57	1.77
5980	300	28.1	80		10	4.87	1.86
5981	400	30.3	74	.1	15	5.17	1.93
5982	200	29.2	83		25	5.47	1.98
5983	200	27.0	97		19	5.72	1.99
5984	300	29.0	98		17	6.00	1.99
5985	1200	33.9	96		8	6.35	2.01
5986	400	30.1	99		13	6.67	2.01
5987	400	29.7	100		13	6.96	2.01
5988	400	29.6	100		14	7.26	2.01
5989	500	30.2	99		12	7.56	2.01
5990	190	27.0	99		20	7.84	2.02
5991	0	15.0	100		47	8.01	2.02

SARABAND
A Sandstone Analysis

Tabular Listing Data

Column 1	Depth in feet.
Column 2	Permeability index in millidarcies.
Column 3	Formation porosity in percent from Neutron-Density data after correction for hydrocarbon and shale effects.
Column 4	Water saturation in percent.
Column 5	Density in gm/cc of hydrocarbon. Hydrocarbon densities in the range between .7 gm/cc and 1.0 gm/cc are all listed as .7* in the tabular listing.
Column 6	V_{clay}, the fraction of bulk volume occupied by wet clay.
Column 7	Total cumulative porosity—feet from the top of the computed section.
Column 8	Total cumulative hydrocarbon—feet from the top of the computed section.

The cumulative numbers in columns 7 and 8 can be used respectively to calculate reservoir pore space and volume of hydrocarbons in place. The total pore space, in barrels per acre, is equal to the difference in the numbers of column 7 at the top and bottom of the zone of interest multiplied by 7758. A similar calculation yields the total barrels per acre of hydrocarbons in place.

SARABAND

A Sandstone Analysis

- Continuous computation of log data.
- Analog and tabular listing of results.
- Analysis of sands—both clean and shaly.

SARABAND is computed using the following logs:

Resistivity — from the Induction Log, Dual Induction or Laterolog.

Density — from FDC—Formation Density Compensated Log.

Neutron — from SNP—Sidewall Neutron Log, or CNP—Compensated Neutron Log.

Sonic — from BHC—Borehole Compensated Sonic Log.

And SP and Gamma Ray are run in conjunction with the above logs.

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* SCHLUMBERGER *
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EXXON CO., U.S.A.

WILKIN RIDGE UNIT NO.1

WILDCAT

DUCHESNE

UTAH

30 NOV 74

HOUSTON LOG INTERPRETATION CENTER

****

CORIBAND JOB

THIS JOB IS IN FEET

THE INTERVAL FOR THIS JOB IS BOTTOM TO TOP

FREQUENCY OF LISTING IS 1 FOOT

DISCRIMINATION MADE ON LISTING IS FROM VSH # 50

PERMEABILITY IS FROM THE E-4 EQUATION

CONSTANT FOR E-4 PERMEABILITY # 250.

Schlumberger

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EXXON CO., U.S.A.

WILKIN RIDGE UNIT NO.1

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HOUSTON LOG INTERPRETATION CENTER

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CORIBAND JOB

THIS JOB IS IN FEET

THE INTERVAL FOR THIS JOB IS BOTTOM TO TOP

FREQUENCY OF LISTING IS 1 FOOT

DISCRIMINATION MADE ON LISTING IS FROM VSH # 50

PERMEABILITY IS FROM THE E-4 EQUATION

CONSTANT FOR E-4 PERMEABILITY # 250.

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DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
4494.0	0.18	97	9.4	0.0	2.75	32	38.22	4.61
4496.0	0.84	76	12.2	0.0	2.76	12	38.11	4.59
4497.0	0.12	77	8.8	5.7	2.67	37	38.00	4.56
4498.0	0.14	76	9.0	8.3	2.66	30	37.91	4.55
4499.0	0.00	100	3.8	0.0	2.71	4	37.81	4.51
4516.0	0.06	90	7.9	6.4	2.66	43	37.76	4.51
4517.0	0.10	86	8.6	3.5	2.68	38	37.67	4.50
4518.0	0.04	79	7.4	2.6	2.69	47	37.59	4.49
4521.0	0.08	100	8.4	1.6	2.68	40	37.48	4.47
4522.0	0.07	100	8.0	1.9	2.68	42	37.40	4.47
4523.0	0.06	100	7.9	1.6	2.68	43	37.32	4.47
4524.0	0.07	100	8.1	1.6	2.67	41	37.24	4.47
4525.0	0.09	100	8.5	2.0	2.66	39	37.16	4.47
4526.0	0.15	100	9.2	1.6	2.66	34	37.07	4.47
4527.0	0.10	100	8.6	1.9	2.65	38	36.98	4.47
4530.0	0.03	100	7.1	4.7	2.65	49	36.90	4.47
4531.0	0.07	100	8.1	4.0	2.65	42	36.82	4.47
4534.0	0.06	100	7.9	3.8	2.65	43	36.71	4.47
4535.0	0.22	100	9.8	2.0	2.65	30	36.63	4.47
4536.0	0.33	100	10.5	1.9	2.65	25	36.53	4.47
4537.0	0.53	100	11.3	1.7	2.65	19	36.42	4.47
4538.0	0.39	100	10.8	2.7	2.65	22	36.31	4.47
4539.0	0.17	100	9.3	3.2	2.65	33	36.20	4.47
4540.0	0.15	100	9.2	3.5	2.65	34	36.11	4.47
4541.0	0.08	100	8.2	4.3	2.65	41	36.02	4.47
4542.0	0.03	100	7.2	3.8	2.65	44	35.94	4.47
4543.0	0.06	91	7.9	3.9	2.65	37	35.87	4.47
4544.0	0.03	100	7.2	5.1	2.65	36	35.79	4.46
4585.0	0.00	100	0.0	0.0	2.66	38	35.72	4.46
4586.0	0.00	77	4.4	4.4	2.66	45	35.70	4.46
4594.0	0.04	70	7.4	5.0	2.68	46	35.66	4.45
4595.0	0.04	62	7.3	2.3	2.67	41	35.58	4.42
4596.0	0.06	92	7.8	4.0	2.65	28	35.51	4.40
4597.0	0.31	88	10.3	10.3	2.66	26	35.42	4.40
4623.0	0.29	66	10.3	10.3	2.69	26	35.34	4.38
4624.0	1.19	66	13.0	0.0	2.73	0	35.22	4.33
4639.0	0.00	100	4.2	0.0	2.67	21	35.11	4.31
4666.0	0.92	92	12.4	0.0	2.71	0	35.09	4.31

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DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
4675.0	0.05	45	7.3	7.3	2.75	47	35.03	4.31
4694.0	0.00	100	0.0	0.0	2.64	42	34.99	4.29
4695.0	0.00	100	0.0	0.0	2.64	36	34.99	4.29
4696.0	0.02	70	6.4	0.0	2.67	0	34.99	4.29
4697.0	1.24	45	12.7	4.8	2.68	2	34.90	4.24
4698.0	1.16	54	12.9	6.4	2.68	6	34.77	4.17
4699.0	1.05	58	12.7	3.2	2.68	9	34.64	4.12
4700.0	0.37	64	10.7	0.0	2.71	23	34.52	4.07
4701.0	1.36	55	13.3	1.9	2.71	5	34.41	4.03
4702.0	2.02	48	14.0	4.6	2.66	0	34.27	3.96
4703.0	1.88	57	14.0	7.4	2.68	0	34.13	3.89
4704.0	1.65	77	13.7	6.7	2.71	2	33.99	3.84
4705.0	0.89	95	12.3	0.0	2.80	11	33.86	3.82
4717.0	0.02	76	6.7	6.7	2.66	48	33.77	3.81
4718.0	0.10	93	8.6	7.0	2.69	38	33.70	3.79
4761.0	0.00	61	3.5	3.5	2.66	47	33.56	3.76
4762.0	0.12	74	8.9	7.2	2.66	34	33.51	3.75
4763.0	0.03	100	7.0	0.0	2.70	22	33.42	3.73
4775.0	0.83	54	12.2	7.2	2.69	12	33.37	3.73
4776.0	1.75	67	13.8	5.0	2.70	1	33.24	3.68
4786.0	0.00	90	1.4	1.4	2.66	43	33.12	3.65
4787.0	0.00	100	3.1	3.1	2.65	38	33.10	3.65
4788.0	0.04	88	7.4	7.4	2.65	34	33.06	3.65
4791.0	0.17	65	9.4	6.6	2.70	32	32.97	3.64
4792.0	0.11	91	8.7	8.7	2.68	37	32.88	3.61
4793.0	0.00	100	0.0	0.0	2.70	26	32.79	3.61
4801.0	0.00	83	4.8	4.8	2.66	49	32.79	3.61
4802.0	0.05	89	7.6	7.6	2.67	45	32.76	3.60
4803.0	0.97	94	12.5	0.0	2.73	10	32.67	3.60
4840.0	0.00	100	0.0	0.0	2.70	48	32.58	3.60
4895.0	0.01	100	6.1	3.9	2.65	40	32.58	3.60
4896.0	0.30	98	10.3	8.9	2.66	26	32.50	3.60
4908.0	0.05	100	7.5	0.0	2.74	46	32.37	3.59
4954.0	0.13	36	8.1	2.1	2.75	42	32.26	3.57
4955.0	0.22	35	8.7	1.3	2.74	37	32.18	3.52
4956.0	0.45	33	9.6	0.3	2.75	31	32.09	3.46

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DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
4957.0	0.87	33	10.8	0.0	2.75	23	31.99	3.39
4958.0	1.00	32	10.9	0.0	2.75	21	31.88	3.32
4959.0	0.54	30	9.7	0.0	2.75	31	31.78	3.25
4960.0	0.45	28	9.2	0.0	2.75	34	31.68	3.18
4961.0	0.86	29	10.3	0.0	2.76	26	31.59	3.12
4962.0	1.36	32	11.5	0.0	2.75	17	31.48	3.04
4963.0	3.01	24	12.0	0.0	2.75	14	31.37	2.96
4964.0	2.13	26	11.6	0.0	2.73	17	31.25	2.87
4965.0	0.99	36	11.3	1.7	2.70	19	31.13	2.79
4966.0	0.02	54	6.7	4.6	2.67	40	31.03	2.73
4988.0	0.01	83	5.6	5.6	2.66	48	30.99	2.71
5011.0	0.00	100	0.0	0.0	2.67	42	30.96	2.71
5012.0	0.00	100	0.0	0.0	2.67	46	30.96	2.71
5042.0	0.00	100	0.1	0.1	2.70	46	30.96	2.71
5043.0	0.00	100	0.0	0.0	2.72	37	30.96	2.71
5068.0	0.00	100	0.0	0.0	2.72	36	30.96	2.71
5069.0	0.00	100	0.0	0.0	2.74	36	30.96	2.71
5070.0	0.00	100	0.0	0.0	2.77	45	30.96	2.71
5112.0	0.00	100	0.0	0.0	2.71	46	30.96	2.71
5135.0	0.00	100	0.0	0.0	2.70	43	30.96	2.71
5136.0	0.00	100	0.0	0.0	2.70	46	30.96	2.71
5227.0	0.00	100	0.0	0.0	2.66	48	30.96	2.71
5228.0	0.00	100	0.0	0.0	2.64	41	30.96	2.71
5259.0	0.00	100	1.0	0.0	2.69	39	30.96	2.71
5260.0	0.00	100	1.6	0.0	2.68	38	30.94	2.71
5261.0	0.00	100	2.3	0.0	2.68	37	30.93	2.71
5262.0	0.00	100	0.9	0.0	2.68	44	30.90	2.71
5268.0	0.00	100	0.3	0.0	2.70	44	30.90	2.71
5269.0	0.00	100	1.6	0.0	2.67	39	30.89	2.71
5270.0	0.00	100	1.8	0.0	2.64	39	30.88	2.71
5271.0	0.00	100	1.7	0.0	2.64	37	30.85	2.71
5272.0	0.00	100	0.0	0.0	2.64	48	30.84	2.71
5484.0	0.00	100	0.0	0.0	2.72	44	30.84	2.71
5485.0	0.00	100	0.0	0.0	2.77	40	30.84	2.71
5625.0	0.00	100	0.0	0.0	2.72	43	30.84	2.71
5626.0	0.00	100	0.0	0.0	2.74	42	30.84	2.71
5627.0	0.00	100	0.0	0.0	2.74	45	30.84	2.71

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DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
5721.0	0.00	100	0.0	0.0	2.64	44	30.84	2.71
5722.0	0.00	100	0.0	0.0	2.68	48	30.84	2.71
5829.0	0.00	100	0.0	0.0	2.74	48	30.84	2.71
5830.0	0.00	100	0.0	0.0	2.72	44	30.84	2.71
5831.0	0.00	100	0.0	0.0	2.72	45	30.84	2.71
5848.0	0.00	100	0.0	0.0	2.76	48	30.84	2.71
5852.0	0.00	100	0.0	0.0	2.73	45	30.84	2.71
5853.0	0.00	100	0.0	0.0	2.74	43	30.84	2.71
5854.0	0.00	100	0.0	0.0	2.75	44	30.84	2.71
5855.0	0.00	100	0.0	0.0	2.72	45	30.84	2.71
5856.0	0.00	100	0.0	0.0	2.72	41	30.84	2.71
5857.0	0.00	100	0.0	0.0	2.74	41	30.84	2.71
5858.0	0.00	100	0.0	0.0	2.77	48	30.84	2.71
5865.0	0.00	100	0.0	0.0	2.69	45	30.84	2.71
5866.0	0.00	100	0.0	0.0	2.67	43	30.84	2.71
5867.0	0.00	100	0.0	0.0	2.65	43	30.84	2.71
5868.0	0.00	100	0.0	0.0	2.66	46	30.84	2.71
5869.0	0.00	100	0.0	0.0	2.67	48	30.84	2.71
5870.0	0.00	100	0.0	0.0	2.65	48	30.84	2.71
5871.0	0.00	100	0.0	0.0	2.65	46	30.84	2.71
5872.0	0.00	100	0.0	0.0	2.66	41	30.84	2.71
5873.0	0.00	100	0.0	0.0	2.66	40	30.84	2.71
5874.0	0.00	100	0.0	0.0	2.66	40	30.84	2.71
5875.0	0.00	100	0.0	0.0	2.66	43	30.84	2.71
5876.0	0.00	100	0.0	0.0	2.68	46	30.84	2.71
5877.0	0.00	100	0.0	0.0	2.69	43	30.84	2.71
5878.0	0.00	100	0.0	0.0	2.68	38	30.84	2.71
5879.0	0.00	100	0.0	0.0	2.69	36	30.84	2.71
5880.0	0.00	100	0.0	0.0	2.68	49	30.84	2.71
5891.0	0.00	100	0.0	0.0	2.64	47	30.84	2.71
5892.0	0.00	100	0.0	0.0	2.64	49	30.84	2.71
5897.0	0.00	100	0.0	0.0	2.65	48	30.84	2.71
5898.0	0.00	100	0.0	0.0	2.64	43	30.84	2.71
5899.0	0.00	100	0.9	0.0	2.64	38	30.84	2.71
5900.0	0.00	100	0.7	0.0	2.64	36	30.83	2.71
5901.0	0.00	100	0.0	0.0	2.64	44	30.83	2.71
5902.0	0.00	100	0.0	0.0	2.68	46	30.83	2.71
5903.0	0.00	100	0.0	0.0	2.66	37	30.83	2.71
5904.0	0.00	100	0.0	0.0	2.64	29	30.83	2.71
5932.0	0.00	100	0.0	0.0	2.66	47	30.83	2.71

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
5933.0	0.00	100	0.0	0.0	2.66	41	30.83	2.71
5934.0	0.00	100	0.0	0.0	2.67	35	30.83	2.71
5935.0	0.00	100	0.0	0.0	2.69	34	30.83	2.71
5936.0	0.00	100	0.0	0.0	2.69	35	30.83	2.71
5937.0	0.00	100	0.0	0.0	2.68	34	30.83	2.71
5938.0	0.00	100	0.0	0.0	2.69	40	30.83	2.71
5939.0	0.00	100	0.0	0.0	2.70	44	30.83	2.71
5942.0	0.00	100	0.0	0.0	2.77	48	30.83	2.71
5943.0	0.00	100	0.0	0.0	2.78	45	30.83	2.71
5950.0	0.00	100	0.0	0.0	2.74	48	30.83	2.71
5964.0	0.00	100	0.0	0.0	2.76	48	30.83	2.71
5965.0	0.00	100	0.0	0.0	2.75	42	30.83	2.71
5966.0	0.00	100	0.0	0.0	2.75	45	30.83	2.71
6040.0	0.00	100	0.0	0.0	2.73	46	30.83	2.71
6041.0	0.00	100	0.0	0.0	2.73	47	30.83	2.71
6042.0	0.00	100	0.0	0.0	2.73	49	30.83	2.71
6044.0	0.00	100	0.0	0.0	2.74	49	30.83	2.71
6045.0	0.00	100	0.0	0.0	2.75	44	30.83	2.71
6046.0	0.00	100	0.0	0.0	2.78	44	30.83	2.71
6047.0	0.00	100	0.0	0.0	2.81	48	30.83	2.71
6109.0	0.00	100	0.0	0.0	2.71	47	30.83	2.71
6110.0	0.00	100	0.0	0.0	2.71	48	30.83	2.71
6111.0	0.00	100	0.0	0.0	2.71	49	30.83	2.71
6159.0	0.00	100	0.0	0.0	2.77	49	30.83	2.71
6224.0	0.00	100	0.0	0.0	2.77	47	30.83	2.71
6225.0	0.00	100	0.0	0.0	2.75	43	30.83	2.71
6226.0	0.00	100	0.0	0.0	2.77	46	30.83	2.71
6260.0	0.00	100	0.0	0.0	2.68	46	30.83	2.71
6261.0	0.00	100	0.0	0.0	2.67	43	30.83	2.71
6262.0	0.00	100	0.0	0.0	2.67	44	30.83	2.71
6263.0	0.00	100	0.0	0.0	2.67	47	30.83	2.71
6266.0	0.00	100	0.0	0.0	2.66	48	30.83	2.71
6267.0	0.00	100	0.0	0.0	2.66	47	30.83	2.71
6268.0	0.00	100	0.0	0.0	2.65	46	30.83	2.71
6269.0	0.00	100	0.0	0.0	2.64	46	30.83	2.71
6270.0	0.00	100	0.0	0.0	2.64	46	30.83	2.71
6305.0	0.00	100	0.0	0.0	2.68	48	30.83	2.71

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6521.0	0.00	100	0.0	0.0	2.69	44	30.83	2.71
6522.0	0.00	100	0.0	0.0	2.66	46	30.83	2.71
6523.0	0.00	100	0.0	0.0	2.65	45	30.83	2.71
6524.0	0.00	100	0.0	0.0	2.66	47	30.83	2.71
6525.0	0.00	100	0.9	0.0	2.66	49	30.83	2.71
6527.0	0.00	100	3.7	0.0	2.71	42	30.81	2.71
6528.0	0.01	100	5.7	0.0	2.71	28	30.77	2.71
6529.0	0.00	100	5.0	0.0	2.69	29	30.71	2.71
6530.0	0.00	100	4.5	0.0	2.69	31	30.66	2.71
6531.0	0.00	100	2.9	0.0	2.66	33	30.62	2.71
6532.0	0.00	100	0.0	0.0	2.66	33	30.61	2.71
6533.0	0.00	100	0.0	0.0	2.67	33	30.61	2.71
6534.0	0.00	100	3.5	0.0	2.67	40	30.59	2.71
6535.0	0.00	100	1.7	0.0	2.66	49	30.56	2.71
6536.0	0.00	100	1.9	0.0	2.68	47	30.54	2.71
6537.0	0.00	100	3.4	0.0	2.69	42	30.52	2.71
6538.0	0.00	100	3.1	0.0	2.68	45	30.49	2.71
6568.0	0.00	100	0.0	0.0	2.65	49	30.46	2.71
6569.0	0.00	100	0.0	0.0	2.64	43	30.46	2.71
6627.0	0.00	100	0.0	0.0	2.79	49	30.46	2.71
6628.0	0.00	100	0.0	0.0	2.77	47	30.46	2.71
6629.0	0.00	100	0.0	0.0	2.76	47	30.46	2.71
6630.0	0.00	100	0.0	0.0	2.76	49	30.46	2.71
6684.0	0.00	100	1.1	0.0	2.70	48	30.46	2.71
6685.0	0.00	100	3.8	0.0	2.68	38	30.44	2.71
6686.0	0.00	100	3.4	0.0	2.67	40	30.40	2.71
6687.0	0.00	100	2.5	0.0	2.70	44	30.37	2.71
6688.0	0.00	100	2.1	0.0	2.72	47	30.35	2.71
6689.0	0.02	100	6.5	0.0	2.72	31	30.32	2.71
6690.0	0.09	93	8.5	0.0	2.70	22	30.24	2.70
6691.0	0.04	100	7.2	0.0	2.69	24	30.16	2.70
6692.0	0.00	100	5.0	0.0	2.67	29	30.09	2.70
6693.0	0.00	100	1.2	0.0	2.65	43	30.05	2.70
6694.0	0.00	100	0.0	0.0	2.64	49	30.04	2.70
6699.0	0.00	100	0.0	0.0	2.64	47	30.04	2.70
6700.0	0.00	100	0.0	0.0	2.66	49	30.04	2.70
6818.0	0.00	100	0.0	0.0	2.74	46	30.03	2.70
6823.0	0.00	100	0.0	0.0	2.64	40	30.03	2.70
6876.0	0.00	100	0.0	0.0	2.69	39	30.03	2.70

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6877.0	0.00	100	0.0	0.0	2.70	41	30.03	2.70
6913.0	0.00	100	0.0	0.0	2.74	48	30.03	2.70
6939.0	0.00	100	0.0	0.0	2.72	45	30.03	2.70
6940.0	0.00	100	0.0	0.0	2.74	46	30.03	2.70
6999.0	0.00	100	0.0	0.0	2.64	42	30.03	2.70
7045.0	0.00	100	0.0	0.0	2.68	30	30.03	2.70
7046.0	0.00	100	0.0	0.0	2.68	28	30.03	2.70
7047.0	0.00	100	0.0	0.0	2.64	35	30.03	2.70
7120.0	0.00	100	0.0	0.0	2.75	49	30.03	2.70
7128.0	0.00	100	0.0	0.0	2.68	36	30.03	2.70
7129.0	0.00	100	0.0	0.0	2.67	37	30.03	2.70
7164.0	0.00	100	0.0	0.0	2.74	44	30.03	2.70
7165.0	0.00	100	0.0	0.0	2.74	41	30.03	2.70
7166.0	0.00	100	0.0	0.0	2.73	47	30.03	2.70
7197.0	0.00	100	0.0	0.0	2.72	47	30.03	2.70
7198.0	0.00	100	0.0	0.0	2.70	48	30.03	2.70
7199.0	0.00	100	0.0	0.0	2.70	47	30.03	2.70
7200.0	0.00	100	0.0	0.0	2.70	46	30.03	2.70
7201.0	0.00	100	0.0	0.0	2.70	45	30.03	2.70
7206.0	0.00	100	0.0	0.0	2.68	40	30.03	2.70
7207.0	0.00	100	0.0	0.0	2.69	35	30.03	2.70
7208.0	0.00	100	0.0	0.0	2.67	44	30.03	2.70
7264.0	0.00	100	0.0	0.0	2.67	39	30.03	2.70
7265.0	0.00	100	0.0	0.0	2.67	48	30.03	2.70
7268.0	0.00	100	0.0	0.0	2.70	41	30.03	2.70
7269.0	0.00	100	0.0	0.0	2.73	37	30.03	2.70
7270.0	0.00	100	0.0	0.0	2.73	39	30.03	2.70
7271.0	0.00	100	0.0	0.0	2.71	40	30.03	2.70
7272.0	0.00	100	0.0	0.0	2.68	46	30.03	2.70
7280.0	0.00	100	0.0	0.0	2.65	47	30.03	2.70
7281.0	0.00	100	0.0	0.0	2.65	47	30.03	2.70
7282.0	0.00	100	0.0	0.0	2.64	45	30.03	2.70
7283.0	0.00	100	0.0	0.0	2.64	48	30.03	2.70
7286.0	0.00	100	0.0	0.0	2.65	49	30.03	2.70
7287.0	0.00	100	0.1	0.0	2.66	48	30.03	2.70

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7292.0	0.00	100	0.0	0.0	2.68	46	30.03	2.70
7293.0	0.00	100	0.0	0.0	2.67	41	30.03	2.70
7294.0	0.00	100	0.0	0.0	2.68	43	30.03	2.70
7295.0	0.00	100	0.0	0.0	2.68	48	30.03	2.70
7313.0	0.00	100	0.0	0.0	2.69	46	30.03	2.70
7314.0	0.00	100	0.0	0.0	2.70	44	30.03	2.70
7315.0	0.00	100	0.0	0.0	2.73	44	30.03	2.70
7316.0	0.00	100	0.0	0.0	2.74	41	30.03	2.70
7317.0	0.00	100	0.0	0.0	2.76	46	30.03	2.70
7359.0	0.00	100	0.0	0.0	2.69	48	30.03	2.70
7360.0	0.00	100	0.0	0.0	2.67	38	30.03	2.70
7361.0	0.00	100	0.0	0.0	2.71	42	30.03	2.70
7367.0	0.00	100	0.0	0.0	2.81	47	30.03	2.70
7374.0	0.00	100	0.0	0.0	2.69	47	30.03	2.70
7375.0	0.00	100	0.0	0.0	2.70	49	30.03	2.70
7429.0	0.00	100	0.1	0.0	2.64	27	30.03	2.70
7430.0	0.00	100	0.0	0.0	2.64	21	30.03	2.70
7431.0	0.00	100	0.0	0.0	2.67	21	30.03	2.70
7432.0	0.00	100	0.0	0.0	2.69	29	30.03	2.70
7433.0	0.00	100	0.0	0.0	2.74	34	30.03	2.70
7434.0	0.00	100	0.0	0.0	2.72	31	30.03	2.70
7435.0	0.00	100	0.0	0.0	2.71	31	30.03	2.70
7436.0	0.00	100	0.0	0.0	2.71	37	30.03	2.70
7454.0	0.00	100	0.0	0.0	2.81	48	30.03	2.70
7508.0	0.00	100	0.0	0.0	2.65	48	30.03	2.70
7509.0	0.00	100	0.0	0.0	2.71	33	30.03	2.70
7510.0	0.00	100	0.0	0.0	2.70	22	30.03	2.70
7511.0	0.00	100	0.0	0.0	2.72	34	30.03	2.70
7516.0	0.00	100	0.0	0.0	2.71	49	30.03	2.70
7517.0	0.00	100	0.0	0.0	2.69	24	30.03	2.70
7518.0	0.00	100	0.0	0.0	2.70	18	30.02	2.70
7519.0	0.00	100	0.0	0.0	2.68	22	30.02	2.70
7520.0	0.00	100	0.0	0.0	2.66	38	30.02	2.70
7525.0	0.00	100	0.0	0.0	2.67	40	30.02	2.70
7526.0	0.00	100	0.0	0.0	2.70	44	30.02	2.70
7531.0	0.00	100	0.0	0.0	2.75	44	30.02	2.70
7532.0	0.00	100	0.0	0.0	2.74	45	30.02	2.70

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7558.0	0.00	100	0.0	0.0	2.70	39	30.02	2.70
7559.0	0.00	100	0.0	0.0	2.68	19	30.02	2.70
7560.0	0.00	100	0.0	0.0	2.68	19	30.02	2.70
7561.0	0.00	100	0.0	0.0	2.67	24	30.02	2.70
7562.0	0.00	100	0.0	0.0	2.64	22	30.02	2.70
7563.0	0.00	100	3.4	0.0	2.64	44	30.02	2.70
7568.0	0.00	100	0.0	0.0	2.75	44	30.00	2.70
7569.0	0.00	100	0.0	0.0	2.73	40	30.00	2.70
7570.0	0.00	100	0.0	0.0	2.74	40	30.00	2.70
7571.0	0.00	100	0.0	0.0	2.73	43	30.00	2.70
7597.0	0.00	100	0.0	0.0	2.70	48	30.00	2.70
7605.0	0.00	100	0.0	0.0	2.66	38	30.00	2.70
7606.0	0.00	100	0.0	0.0	2.73	38	30.00	2.70
7607.0	0.00	100	0.0	0.0	2.77	49	30.00	2.70
7608.0	0.00	100	0.0	0.0	2.74	49	30.00	2.70
7609.0	0.00	100	0.0	0.0	2.70	37	30.00	2.70
7610.0	0.00	100	0.0	0.0	2.70	36	30.00	2.70
7611.0	0.00	100	0.0	0.0	2.72	46	30.00	2.70
7631.0	0.00	100	0.0	0.0	2.64	40	30.00	2.70
7632.0	0.00	100	0.0	0.0	2.70	24	30.00	2.70
7633.0	0.00	100	0.0	0.0	2.72	26	30.00	2.70
7634.0	0.00	100	0.0	0.0	2.71	42	30.00	2.70
7655.0	0.00	100	0.0	0.0	2.67	41	30.00	2.70
7656.0	0.00	100	0.0	0.0	2.71	28	30.00	2.70
7657.0	0.00	100	0.0	0.0	2.71	30	30.00	2.70
7658.0	0.00	100	0.0	0.0	2.75	37	30.00	2.70
7659.0	0.00	100	0.0	0.0	2.78	48	30.00	2.70
7666.0	0.00	100	0.0	0.0	2.69	43	30.00	2.70
7680.0	0.00	100	0.0	0.0	2.76	48	30.00	2.70
7681.0	0.00	100	0.0	0.0	2.73	40	30.00	2.70
7682.0	0.00	100	0.0	0.0	2.71	39	30.00	2.70
7683.0	0.00	100	0.0	0.0	2.75	40	30.00	2.70
7684.0	0.00	100	0.0	0.0	2.73	32	30.00	2.70
7685.0	0.00	100	0.0	0.0	2.71	24	30.00	2.70
7686.0	0.00	100	0.3	0.3	2.70	24	30.00	2.70
7687.0	0.00	100	0.3	0.3	2.70	25	30.00	2.70
7688.0	0.00	100	0.2	0.0	2.71	26	30.00	2.70
7689.0	0.00	100	0.3	0.0	2.70	26	29.99	2.70
7690.0	0.00	100	0.7	0.0	2.69	24	29.99	2.70
7691.0	0.00	100	0.0	0.0	2.68	26	29.98	2.70

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7692.0	0.00	100	0.0	0.0	2.67	34	29.98	2.70
7715.0	0.00	100	0.0	0.0	2.73	41	29.98	2.70
7716.0	0.00	100	0.0	0.0	2.75	41	29.98	2.70
7725.0	0.00	100	0.0	0.0	2.69	29	29.98	2.70
7726.0	0.00	100	0.0	0.0	2.70	28	29.98	2.70
7727.0	0.00	100	0.0	0.0	2.69	37	29.98	2.70
7728.0	0.00	100	0.0	0.0	2.68	38	29.98	2.70
7729.0	0.00	100	0.0	0.0	2.66	34	29.98	2.70
7730.0	0.00	100	0.0	0.0	2.64	31	29.98	2.70
7757.0	0.00	100	0.0	0.0	2.71	40	29.98	2.70
7758.0	0.00	100	0.0	0.0	2.67	29	29.98	2.70
7759.0	0.00	100	0.0	0.0	2.64	28	29.98	2.70
7766.0	0.00	100	0.1	0.0	2.70	47	29.98	2.70
7767.0	0.00	100	0.0	0.0	2.71	41	29.98	2.70
7785.0	0.00	100	0.0	0.0	2.76	41	29.98	2.70
7786.0	0.00	100	0.0	0.0	2.76	39	29.98	2.70
7787.0	0.00	100	0.0	0.0	2.74	43	29.98	2.70
7791.0	0.00	100	0.0	0.0	2.73	43	29.98	2.70
7792.0	0.00	100	0.8	0.8	2.69	25	29.98	2.70
7793.0	0.00	100	1.4	0.4	2.67	22	29.97	2.70
7794.0	0.00	100	1.8	1.8	2.66	24	29.96	2.70
7795.0	0.00	100	1.6	1.6	2.66	28	29.94	2.70
7796.0	0.00	100	1.2	1.2	2.67	39	29.92	2.70
7798.0	0.00	100	0.0	0.0	2.64	49	29.92	2.70
7799.0	0.00	100	0.4	0.4	2.70	30	29.92	2.70
7800.0	0.00	100	0.0	0.0	2.73	32	29.91	2.70
7811.0	0.00	100	0.0	0.0	2.72	41	29.91	2.70
7812.0	0.00	100	0.3	0.3	2.70	28	29.91	2.70
7813.0	0.00	100	0.6	0.6	2.69	19	29.91	2.70
7814.0	0.00	100	0.5	0.5	2.70	17	29.91	2.70
7815.0	0.00	100	0.0	0.0	2.72	19	29.90	2.70
7816.0	0.00	100	0.0	0.0	2.74	26	29.90	2.70
7817.0	0.00	100	0.0	0.0	2.75	36	29.90	2.70
7826.0	0.00	100	0.0	0.0	2.70	49	29.90	2.70
7827.0	0.00	100	0.0	0.0	2.74	40	29.90	2.70
7828.0	0.00	100	0.0	0.0	2.75	37	29.90	2.70
7829.0	0.00	100	0.0	0.0	2.74	34	29.90	2.70
7830.0	0.00	100	0.0	0.0	2.72	30	29.90	2.70
7831.0	0.00	100	0.0	0.0	2.71	25	29.90	2.70

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7832.0	0.00	100	0.7	0.5	2.69	21	29.90	2.70
7833.0	0.00	100	0.6	0.6	2.69	20	29.89	2.70
7834.0	0.00	100	0.2	0.0	2.70	22	29.89	2.70
7835.0	0.00	100	0.7	0.1	2.69	23	29.88	2.70
7836.0	0.00	100	1.1	1.1	2.68	26	29.88	2.70
7837.0	0.00	100	1.3	1.3	2.67	31	29.86	2.70
7838.0	0.00	100	2.0	1.5	2.67	32	29.85	2.70
7839.0	0.00	100	3.6	0.0	2.69	20	29.83	2.70
7840.0	0.00	100	3.8	0.0	2.68	20	29.79	2.70
7841.0	0.00	100	4.3	0.0	2.69	18	29.75	2.70
7842.0	0.00	100	4.9	0.0	2.69	16	29.71	2.70
7843.0	0.02	88	6.3	0.0	2.69	11	29.65	2.70
7844.0	0.03	80	7.0	0.0	2.70	5	29.59	2.69
7845.0	0.02	87	6.5	0.0	2.69	8	29.52	2.67
7846.0	0.01	96	5.7	0.0	2.68	11	29.46	2.67
7847.0	0.00	100	5.0	0.0	2.67	15	29.40	2.67
7848.0	0.00	100	4.8	0.7	2.65	18	29.35	2.67
7849.0	0.00	100	4.7	1.4	2.65	16	29.30	2.67
7850.0	0.00	100	2.8	2.6	2.65	23	29.26	2.67
7851.0	0.00	100	1.1	1.1	2.68	34	29.23	2.67
7852.0	0.00	100	0.0	0.0	2.75	49	29.23	2.67
7865.0	0.00	100	0.0	0.0	2.78	40	29.23	2.67
7872.0	0.00	100	0.0	0.0	2.69	47	29.23	2.67
7873.0	0.00	100	0.0	0.0	2.70	47	29.23	2.67
7883.0	0.00	100	0.0	0.0	2.75	43	29.23	2.67
7884.0	0.00	100	0.0	0.0	2.78	48	29.23	2.67
7926.0	0.00	100	0.0	0.0	2.73	39	29.23	2.67
7927.0	0.00	100	0.0	0.0	2.72	38	29.23	2.67
7928.0	0.00	100	0.0	0.0	2.72	33	29.23	2.67
7929.0	0.00	100	0.0	0.0	2.72	30	29.23	2.67
7930.0	0.00	100	0.0	0.0	2.72	34	29.23	2.67
7931.0	0.00	100	0.0	0.0	2.75	44	29.23	2.67
7941.0	0.00	100	0.0	0.0	2.73	45	29.23	2.67
7942.0	0.00	100	0.0	0.0	2.73	42	29.23	2.67
7943.0	0.00	100	0.0	0.0	2.71	44	29.23	2.67
7944.0	0.00	100	0.0	0.0	2.72	47	29.23	2.67
7945.0	0.00	100	0.0	0.0	2.76	42	29.23	2.67
7946.0	0.00	100	0.0	0.0	2.78	39	29.23	2.67
7947.0	0.00	100	0.0	0.0	2.77	37	29.23	2.67
7948.0	0.00	100	0.0	0.0	2.73	41	29.23	2.67
7954.0	0.00	100	0.0	0.0	2.85	49	29.23	2.67
7955.0	0.00	100	0.0	0.0	2.86	49	29.23	2.67

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7958.0	0.00	100	0.0	0.0	2.80	45	29.23	2.67
7959.0	0.00	100	0.0	0.0	2.82	49	29.23	2.67
7972.0	0.00	100	0.0	0.0	2.72	39	29.23	2.67
7977.0	0.00	100	0.9	0.9	2.68	40	29.23	2.67
7978.0	0.01	100	5.9	5.9	2.64	22	29.21	2.67
7985.0	0.00	100	0.0	0.0	2.77	49	29.12	2.64
7986.0	0.00	100	0.0	0.0	2.73	47	29.12	2.64
7987.0	0.00	100	0.0	0.0	2.71	37	29.12	2.64
7988.0	0.00	100	0.4	0.4	2.70	26	29.12	2.64
7989.0	0.00	100	0.7	0.7	2.69	25	29.11	2.64
7990.0	0.00	100	0.5	0.0	2.69	26	29.11	2.64
7991.0	0.00	100	0.5	0.4	2.70	26	29.10	2.64
7992.0	0.00	100	1.9	1.0	2.68	21	29.09	2.64
7993.0	0.00	100	3.2	0.3	2.67	19	29.07	2.64
7994.0	0.00	100	4.1	0.0	2.67	17	29.04	2.64
7995.0	0.00	100	4.5	0.0	2.67	17	28.99	2.64
7996.0	0.00	100	4.2	0.1	2.66	22	28.95	2.64
7997.0	0.00	100	4.4	1.0	2.65	22	28.91	2.64
7998.0	0.00	100	4.6	1.4	2.65	22	28.86	2.64
7999.0	0.00	100	3.4	0.8	2.65	24	28.82	2.64
8000.0	0.00	100	2.6	0.1	2.65	25	28.79	2.64
8001.0	0.00	100	1.8	0.0	2.66	25	28.77	2.64
8002.0	0.00	100	1.1	0.0	2.68	23	28.75	2.64
8003.0	0.00	100	1.1	0.0	2.68	23	28.74	2.64
8004.0	0.00	100	0.8	0.6	2.69	26	28.73	2.64
8005.0	0.00	100	0.0	0.0	2.74	37	28.72	2.64
8010.0	0.00	100	0.0	0.0	2.80	48	28.72	2.64
8011.0	0.00	100	0.0	0.0	2.73	39	28.72	2.64
8012.0	0.00	100	0.3	0.3	2.70	33	28.72	2.64
8013.0	0.00	100	1.3	1.3	2.67	23	28.72	2.64
8014.0	0.00	100	2.6	2.6	2.65	18	28.70	2.64
8015.0	0.00	100	0.0	0.0	2.64	22	28.66	2.64
8031.0	0.00	100	0.0	0.0	2.78	43	28.66	2.64
8032.0	0.00	100	0.0	0.0	2.74	36	28.66	2.64
8033.0	0.00	100	0.0	0.0	2.75	43	28.66	2.64
8044.0	0.00	100	0.0	0.0	2.73	46	28.66	2.64
8045.0	0.00	100	0.0	0.0	2.72	47	28.66	2.64
8047.0	0.00	100	0.0	0.0	2.74	45	28.66	2.64
8048.0	0.00	100	0.0	0.0	2.71	35	28.66	2.64
8049.0	0.00	100	1.2	0.0	2.70	21	28.66	2.64

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
8050.0	0.00	100	2.5	0.0	2.69	14	28.65	2.64
8051.0	0.00	100	2.8	0.0	2.68	16	28.62	2.64
8052.0	0.00	100	3.7	0.0	2.66	19	28.59	2.64
8053.0	0.00	100	3.0	0.0	2.64	28	28.56	2.64
8054.0	0.00	100	2.7	0.0	2.64	30	28.53	2.64
8055.0	0.00	100	2.7	0.0	2.65	32	28.50	2.64
8056.0	0.00	100	0.7	0.0	2.65	33	28.48	2.64
8057.0	0.00	100	0.0	0.0	2.65	44	28.47	2.64
8066.0	0.00	100	0.0	0.0	2.77	46	28.47	2.64
8067.0	0.00	100	0.0	0.0	2.75	40	28.47	2.64
8068.0	0.00	100	0.0	0.0	2.74	38	28.47	2.64
8069.0	0.00	100	0.0	0.0	2.72	36	28.47	2.64
8070.0	0.00	100	0.0	0.0	2.73	43	28.47	2.64
8073.0	0.00	100	0.0	0.0	2.64	31	28.47	2.64
8083.0	0.00	100	0.0	0.0	2.74	39	28.47	2.64
8084.0	0.00	100	0.0	0.0	2.72	28	28.47	2.64
8085.0	0.00	100	0.0	0.0	2.72	37	28.47	2.64
8092.0	0.00	100	0.2	0.2	2.70	40	28.47	2.64
8093.0	0.00	100	0.5	0.5	2.70	32	28.47	2.64
8097.0	0.00	100	0.0	0.0	2.75	48	28.47	2.64
8098.0	0.00	100	0.0	0.0	2.74	38	28.47	2.64
8099.0	0.00	100	0.0	0.0	2.76	42	28.47	2.64
8115.0	0.00	100	0.0	0.0	2.73	48	28.47	2.64
8116.0	0.00	100	0.0	0.0	2.75	33	28.47	2.64
8117.0	0.00	100	0.0	0.0	2.76	30	28.47	2.64
8118.0	0.00	100	0.0	0.0	2.76	34	28.47	2.64
8119.0	0.00	100	0.0	0.0	2.79	49	28.47	2.64
8131.0	0.00	100	0.0	0.0	2.64	38	28.47	2.64
8132.0	0.00	100	0.0	0.0	2.70	38	28.47	2.64
8133.0	0.00	100	0.0	0.0	2.75	40	28.47	2.64
8134.0	0.00	100	0.0	0.0	2.81	48	28.47	2.64
8149.0	0.00	100	0.0	0.0	2.64	40	28.47	2.64
8150.0	0.00	100	0.0	0.0	2.74	34	28.47	2.64
8151.0	0.00	100	0.0	0.0	2.79	33	28.47	2.64
8152.0	0.00	100	0.0	0.0	2.76	33	28.47	2.64
8153.0	0.00	100	0.0	0.0	2.76	36	28.47	2.64
8154.0	0.00	100	0.0	0.0	2.82	47	28.47	2.64
8159.0	0.00	100	0.0	0.0	2.75	46	28.47	2.64
8160.0	0.00	100	0.0	0.0	2.78	39	28.47	2.64

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
8161.0	0.00	100	0.0	0.0	2.77	34	28.47	2.64
8162.0	0.00	100	0.0	0.0	2.79	32	28.47	2.64
8163.0	0.00	100	0.0	0.0	2.78	32	28.47	2.64
8164.0	0.00	100	0.0	0.0	2.74	30	28.47	2.64
8165.0	0.00	100	0.3	0.2	2.70	27	28.47	2.64
8166.0	0.00	100	0.6	0.3	2.69	24	28.46	2.64
8167.0	0.00	100	0.5	0.0	2.70	21	28.46	2.64
8168.0	0.00	100	0.5	0.0	2.70	20	28.45	2.64
8169.0	0.00	100	0.4	0.0	2.70	21	28.45	2.64
8170.0	0.00	100	0.7	0.0	2.69	25	28.44	2.64
8171.0	0.00	100	2.3	0.0	2.68	19	28.43	2.64
8172.0	0.00	100	3.4	0.0	2.68	14	28.41	2.64
8173.0	0.00	100	3.2	0.0	2.68	15	28.37	2.64
8174.0	0.00	100	2.9	0.0	2.68	18	28.34	2.64
8175.0	0.00	100	3.1	0.0	2.69	16	28.31	2.64
8176.0	0.00	100	3.7	0.0	2.68	16	28.28	2.64
8177.0	0.00	100	4.7	0.0	2.67	13	28.24	2.64
8178.0	0.01	100	5.4	0.0	2.68	10	28.19	2.64
8179.0	0.01	100	5.3	0.0	2.69	8	28.14	2.64
8180.0	0.00	100	5.1	0.0	2.69	9	28.08	2.64
8181.0	0.00	100	4.3	0.0	2.68	12	28.03	2.64
8182.0	0.00	100	3.6	0.0	2.67	15	27.99	2.64
8183.0	0.00	100	2.4	0.7	2.65	24	27.96	2.64
8184.0	0.00	100	1.5	1.4	2.66	33	27.94	2.64
8192.0	0.00	100	0.0	0.0	2.74	48	27.93	2.64
8209.0	0.00	100	0.0	0.0	2.64	39	27.93	2.64
8221.0	0.00	100	0.0	0.0	2.79	49	27.93	2.64
8222.0	0.00	100	0.0	0.0	2.74	38	27.93	2.64
8223.0	0.00	100	0.0	0.0	2.72	33	27.93	2.64
8224.0	0.00	100	0.0	0.0	2.72	29	27.93	2.64
8225.0	0.00	100	0.0	0.0	2.72	29	27.93	2.64
8226.0	0.00	100	0.0	0.0	2.72	28	27.93	2.64
8227.0	0.00	100	0.0	0.0	2.71	23	27.93	2.64
8228.0	0.00	100	0.0	0.0	2.71	20	27.93	2.64
8229.0	0.00	100	0.5	0.0	2.70	21	27.93	2.64
8230.0	0.00	100	0.9	0.2	2.68	22	27.92	2.64
8231.0	0.00	100	0.8	0.0	2.69	22	27.91	2.64
8232.0	0.00	100	0.6	0.0	2.69	23	27.91	2.64
8233.0	0.00	100	0.8	0.0	2.69	24	27.90	2.64
8234.0	0.00	100	1.3	0.4	2.67	26	27.89	2.64
8235.0	0.00	100	0.8	0.0	2.70	27	27.88	2.64
8236.0	0.00	100	1.7	0.0	2.71	19	27.87	2.64
8237.0	0.00	100	2.9	0.0	2.70	16	27.85	2.64
8238.0	0.00	100	3.4	0.0	2.69	17	27.82	2.64
8239.0	0.00	100	4.6	0.0	2.69	13	27.78	2.64

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
8240.0	0.01	100	5.3	0.0	2.70	10	27.73	2.64
8241.0	0.01	100	5.5	0.0	2.70	7	27.68	2.64
8242.0	0.01	100	5.6	0.0	2.70	6	27.63	2.64
8243.0	0.01	100	6.0	0.0	2.67	10	27.57	2.64
8244.0	0.01	100	6.1	0.2	2.66	11	27.51	2.64
8245.0	0.01	100	5.9	0.3	2.66	13	27.45	2.64
8246.0	0.01	100	6.2	0.0	2.66	11	27.39	2.64
8247.0	0.02	100	6.4	0.0	2.67	9	27.33	2.64
8248.0	0.02	100	6.3	0.0	2.67	9	27.26	2.64
8249.0	0.01	100	5.8	0.0	2.66	12	27.20	2.64
8250.0	0.01	100	5.5	0.0	2.66	10	27.14	2.64
8252.0	0.00	100	4.0	0.8	2.65	15	27.09	2.64
8253.0	0.00	100	4.1	1.4	2.65	15	26.99	2.64
8254.0	0.00	100	2.6	2.6	2.65	22	26.96	2.64
8255.0	0.00	100	1.3	1.3	2.67	32	26.93	2.64
8256.0	0.00	100	0.0	0.0	2.68	43	26.92	2.64
8270.0	0.00	100	0.0	0.0	2.64	39	26.92	2.64
8271.0	0.00	100	0.0	0.0	2.65	38	26.92	2.64
8272.0	0.00	100	0.0	0.0	2.79	39	26.92	2.64
8273.0	0.00	100	0.0	0.0	2.79	44	26.92	2.64
8279.0	0.00	100	0.6	0.6	2.69	40	26.92	2.64
8280.0	0.00	100	0.6	0.1	2.69	25	26.92	2.64
8281.0	0.00	100	1.5	1.3	2.67	23	26.91	2.64
8282.0	0.01	100	5.5	3.6	2.65	13	26.89	2.64
8283.0	0.00	100	0.0	0.0	2.64	40	26.82	2.64
8300.0	0.00	100	0.0	0.0	2.64	49	26.82	2.64
8363.0	0.00	100	0.0	0.0	2.68	49	26.82	2.64
8371.0	0.00	100	0.0	0.0	2.67	44	26.82	2.64
8372.0	0.00	100	0.0	0.0	2.72	41	26.82	2.64
8387.0	0.00	100	0.0	0.0	2.77	39	26.82	2.64
8388.0	0.00	100	0.0	0.0	2.70	27	26.82	2.64
8389.0	0.00	100	0.0	0.0	2.66	20	26.82	2.64
8390.0	0.00	100	0.0	0.0	2.64	17	26.82	2.64
8391.0	0.00	100	4.5	0.0	2.64	17	26.81	2.64
8392.0	0.00	100	0.7	0.0	2.64	46	26.77	2.64
8393.0	0.00	100	0.0	0.0	2.64	49	26.77	2.64
8397.0	0.00	100	0.0	0.0	2.74	43	26.77	2.64
8410.0	0.00	100	0.0	0.0	2.85	49	26.77	2.64
8411.0	0.00	100	0.0	0.0	2.78	45	26.77	2.64

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
8412.0	0.00	100	0.0	0.0	2.77	45	26.77	2.64
8426.0	0.00	100	0.0	0.0	2.68	45	26.77	2.64
8427.0	0.00	100	0.0	0.0	2.64	47	26.77	2.64
8440.0	0.00	100	0.0	0.0	2.76	41	26.77	2.64
8441.0	0.00	100	0.0	0.0	2.72	34	26.77	2.64
8442.0	0.00	100	0.0	0.0	2.71	32	26.77	2.64
8443.0	0.00	100	0.0	0.0	2.70	34	26.77	2.64
8444.0	0.00	100	0.0	0.0	2.72	30	26.77	2.64
8445.0	0.00	100	0.0	0.0	2.75	28	26.77	2.64
8446.0	0.00	100	0.0	0.0	2.79	35	26.77	2.64
8447.0	0.00	100	0.0	0.0	2.82	42	26.77	2.64
8448.0	0.00	100	0.0	0.0	2.81	47	26.77	2.64
8454.0	0.00	100	0.0	0.0	2.64	43	26.77	2.64
8483.0	0.00	100	0.0	0.0	2.80	49	26.77	2.64
8484.0	0.00	100	0.0	0.0	2.77	46	26.77	2.64
8487.0	0.00	100	0.0	0.0	2.68	36	26.77	2.64
8488.0	0.00	100	0.0	0.0	2.66	32	26.77	2.64
8493.0	0.00	100	0.0	0.0	2.65	36	26.77	2.64
8494.0	0.00	100	1.1	1.0	2.67	35	26.76	2.64
8495.0	0.00	100	1.2	0.0	2.70	34	26.75	2.64
8496.0	0.00	100	2.5	0.0	2.71	23	26.73	2.64
8497.0	0.00	100	2.7	0.0	2.70	12	26.70	2.64
8498.0	0.00	100	1.4	0.0	2.70	12	26.68	2.64
8499.0	0.00	100	0.9	0.0	2.69	18	26.67	2.64
8500.0	0.00	100	1.2	0.0	2.68	18	26.66	2.64
8501.0	0.00	100	1.4	0.0	2.67	18	26.65	2.64
8502.0	0.00	100	1.4	0.6	2.67	19	26.63	2.64
8503.0	0.00	100	0.8	0.8	2.69	25	26.62	2.64
8504.0	0.00	100	0.3	0.3	2.70	36	26.61	2.64
8517.0	0.00	100	0.5	0.5	2.69	37	26.61	2.64
8518.0	0.00	100	0.4	0.4	2.70	29	26.60	2.64
8519.0	0.00	100	0.3	0.3	2.70	26	26.60	2.64
8520.0	0.00	100	0.0	0.0	2.73	31	26.60	2.64
8521.0	0.00	100	0.0	0.0	2.76	43	26.60	2.64
8522.0	0.00	100	0.0	0.0	2.71	39	26.60	2.64
8523.0	0.00	100	1.7	1.7	2.66	27	26.59	2.64
8524.0	0.00	100	4.6	3.9	2.64	13	26.57	2.64
8525.0	0.00	100	0.0	0.0	2.64	19	26.55	2.64
8546.0	0.00	100	0.0	0.0	2.75	47	26.55	2.64
8547.0	0.00	100	0.0	0.0	2.70	46	26.55	2.64

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
8557.0	0.00	100	0.0	0.0	2.64	44	26.55	2.64
8560.0	0.00	100	0.0	0.0	2.65	30	26.55	2.64
8561.0	0.00	100	1.6	1.6	2.66	28	26.54	2.64
8562.0	0.02	84	6.4	6.3	2.65	11	26.51	2.64
8575.0	0.00	100	0.0	0.0	2.64	45	26.47	2.64
8576.0	0.00	100	0.0	0.0	2.64	48	26.47	2.64
8577.0	0.00	76	0.7	0.7	2.69	44	26.47	2.64
8578.0	0.00	100	0.0	0.0	2.74	46	26.47	2.63
8579.0	0.00	100	0.0	0.0	2.74	48	26.47	2.63
8580.0	0.00	100	1.9	0.3	2.71	30	26.46	2.63
8581.0	0.00	100	2.6	0.0	2.68	21	26.44	2.63
8582.0	0.00	100	3.6	0.0	2.68	15	26.41	2.63
8583.0	0.00	100	3.6	0.0	2.68	16	26.38	2.63
8584.0	0.00	100	3.8	0.0	2.68	17	26.34	2.63
8585.0	0.00	100	4.1	0.0	2.69	16	26.30	2.63
8586.0	0.00	100	4.5	0.0	2.68	15	26.26	2.63
8587.0	0.00	100	4.5	0.0	2.67	17	26.21	2.63
8588.0	0.00	100	4.5	0.7	2.66	20	26.17	2.63
8589.0	0.00	100	4.7	0.8	2.66	18	26.12	2.63
8590.0	0.00	100	4.4	0.4	2.66	17	26.07	2.63
8591.0	0.00	100	4.8	0.9	2.65	15	26.03	2.63
8592.0	0.01	100	5.3	0.5	2.66	11	25.98	2.63
8593.0	0.00	100	4.6	0.2	2.66	13	25.93	2.63
8594.0	0.00	100	3.6	0.5	2.66	18	25.88	2.63
8595.0	0.00	100	2.8	0.8	2.67	23	25.85	2.63
8596.0	0.00	100	2.2	0.5	2.68	27	25.82	2.63
8597.0	0.00	100	1.9	0.0	2.70	28	25.80	2.63
8598.0	0.00	100	0.7	0.7	2.68	39	25.79	2.63
8599.0	0.00	100	0.1	0.1	2.71	43	25.78	2.63
8609.0	0.00	100	1.9	1.9	2.66	29	25.78	2.63
8610.0	0.00	100	1.6	0.0	2.70	14	25.76	2.63
8611.0	0.00	100	2.4	0.0	2.69	14	25.75	2.63
8612.0	0.00	100	3.3	0.0	2.67	15	25.72	2.63
8613.0	0.00	100	3.5	0.0	2.66	14	25.69	2.63
8614.0	0.00	100	3.5	0.0	2.66	13	25.65	2.63
8615.0	0.00	100	3.6	0.0	2.67	11	25.62	2.63
8616.0	0.00	100	3.5	0.0	2.67	14	25.58	2.63
8617.0	0.00	100	3.5	0.1	2.65	17	25.54	2.63
8618.0	0.00	100	3.5	0.3	2.65	17	25.51	2.63
8619.0	0.00	100	3.0	0.0	2.66	18	25.48	2.63
8620.0	0.00	100	2.6	0.0	2.66	18	25.45	2.63
8621.0	0.00	100	1.9	0.0	2.66	21	25.42	2.63
8622.0	0.00	100	1.5	0.4	2.67	24	25.40	2.63
8623.0	0.00	100	0.0	0.0	2.68	34	25.39	2.63

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
8630.0	0.00	100	0.0	0.0	2.64	49	25.39	2.63
8631.0	0.00	100	0.0	0.0	2.68	47	25.39	2.63
8642.0	0.00	100	0.0	0.0	2.64	47	25.39	2.63
8643.0	0.00	100	0.0	0.0	2.64	49	25.39	2.63
8711.0	0.00	100	0.0	0.0	2.64	35	25.39	2.63
8712.0	0.00	100	0.0	0.0	2.70	42	25.39	2.63
8721.0	0.00	100	0.0	0.0	2.81	49	25.39	2.63
8722.0	0.00	100	0.0	0.0	2.74	41	25.39	2.63
8723.0	0.00	100	0.0	0.0	2.72	32	25.39	2.63
8724.0	0.00	100	0.0	0.0	2.72	27	25.39	2.63
8725.0	0.00	100	0.0	0.0	2.71	26	25.39	2.63
8726.0	0.00	100	0.2	0.0	2.70	25	25.39	2.63
8727.0	0.00	100	0.9	0.9	2.68	25	25.38	2.63
8728.0	0.00	100	1.4	1.1	2.67	25	25.37	2.63
8729.0	0.00	100	1.3	1.0	2.67	27	25.36	2.63
8730.0	0.00	100	1.6	1.6	2.66	28	25.35	2.63
8731.0	0.00	100	1.7	1.7	2.66	29	25.33	2.63
8732.0	0.00	100	1.6	1.6	2.66	29	25.31	2.63
8733.0	0.00	100	1.6	1.5	2.66	27	25.30	2.63
8734.0	0.00	100	1.7	1.4	2.66	24	25.28	2.63
8735.0	0.00	100	1.8	1.3	2.66	22	25.26	2.63
8736.0	0.00	100	1.2	1.2	2.68	22	25.25	2.63
8737.0	0.00	100	0.0	0.0	2.72	25	25.24	2.63
8738.0	0.00	100	0.0	0.0	2.77	30	25.24	2.63
8739.0	0.00	100	0.0	0.0	2.77	29	25.24	2.63
8740.0	0.00	100	0.0	0.0	2.78	28	25.24	2.63
8741.0	0.00	100	0.0	0.0	2.78	29	25.24	2.63
8742.0	0.00	100	0.0	0.0	2.75	28	25.24	2.63
8743.0	0.00	100	0.3	0.3	2.70	25	25.24	2.63
8744.0	0.00	100	1.2	1.2	2.68	22	25.23	2.63
8745.0	0.00	100	1.1	1.1	2.68	21	25.22	2.63
8746.0	0.00	100	0.6	0.4	2.69	20	25.21	2.63
8747.0	0.00	100	0.8	0.3	2.69	20	25.20	2.63
8748.0	0.00	100	1.2	0.7	2.68	22	25.20	2.63
8749.0	0.00	100	1.2	0.3	2.68	22	25.18	2.63
8750.0	0.00	100	1.3	0.5	2.67	22	25.17	2.63
8751.0	0.00	100	1.4	0.9	2.67	22	25.16	2.63
8752.0	0.00	100	1.3	1.0	2.67	23	25.14	2.63
8753.0	0.00	100	1.5	1.5	2.67	25	25.13	2.63
8754.0	0.00	100	0.0	0.0	2.66	31	25.12	2.63
8755.0	0.00	100	0.0	0.0	2.66	44	25.12	2.63
8777.0	0.00	100	0.0	0.0	2.64	48	25.12	2.63
8778.0	0.00	100	0.0	0.0	2.64	41	25.12	2.63

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
8786.0	0.00	100	0.0	0.0	2.73	39	25.12	2.63
8787.0	0.00	100	0.3	0.3	2.70	30	25.12	2.63
8788.0	0.00	100	0.3	0.3	2.70	39	25.12	2.63
8797.0	0.00	100	0.0	0.0	2.64	40	25.12	2.63
8798.0	0.00	99	0.7	0.7	2.69	34	25.12	2.63
8799.0	0.00	96	0.3	0.3	2.70	33	25.11	2.63
8800.0	0.00	100	0.0	0.0	2.72	39	25.11	2.63
8816.0	0.00	100	0.1	0.1	2.71	44	25.09	2.63
8817.0	0.00	100	0.9	0.9	2.68	31	25.09	2.63
8818.0	0.00	100	4.3	4.3	2.64	15	25.07	2.63
8819.0	0.06	72	8.0	8.0	2.64	20	25.02	2.63
8820.0	0.11	67	8.7	8.7	2.64	37	24.93	2.60
8834.0	0.00	100	0.5	0.5	2.69	42	24.85	2.58
8835.0	0.00	100	0.3	0.3	2.70	40	24.85	2.58
8839.0	0.00	100	0.0	0.0	2.75	49	24.85	2.58
8840.0	0.00	100	0.0	0.0	2.71	41	24.85	2.58
8841.0	0.00	100	0.3	0.3	2.70	29	24.84	2.58
8842.0	0.00	100	0.9	0.3	2.68	23	24.84	2.58
8843.0	0.00	100	0.8	0.0	2.69	23	24.83	2.58
8844.0	0.00	100	0.6	0.0	2.69	25	24.82	2.58
8845.0	0.00	100	0.8	0.4	2.69	26	24.82	2.58
8846.0	0.00	100	0.4	0.0	2.70	26	24.81	2.58
8847.0	0.00	100	0.4	0.0	2.70	26	24.81	2.58
8848.0	0.00	100	0.8	0.1	2.69	27	24.80	2.58
8849.0	0.00	100	0.8	0.1	2.69	26	24.80	2.58
8850.0	0.00	100	0.6	0.0	2.69	25	24.79	2.58
8851.0	0.00	100	0.5	0.2	2.70	25	24.78	2.58
8852.0	0.00	100	0.4	0.4	2.70	31	24.78	2.58
8853.0	0.00	100	0.0	0.0	2.71	48	24.77	2.58
8867.0	0.00	100	3.3	3.3	2.65	28	24.77	2.58
8868.0	0.01	80	6.0	6.0	2.64	32	24.74	2.58
8877.0	0.00	100	0.0	0.0	2.64	49	24.71	2.57
8878.0	0.00	100	0.0	0.0	2.64	35	24.71	2.57
8879.0	0.00	100	0.0	0.0	2.73	22	24.71	2.57
8880.0	0.00	100	0.0	0.0	2.74	24	24.71	2.57
8881.0	0.00	100	0.0	0.0	2.72	29	24.71	2.57
8882.0	0.00	100	0.1	0.1	2.71	39	24.71	2.57
8885.0	0.00	100	0.0	0.0	2.64	49	24.71	2.57
8898.0	0.00	100	0.2	0.2	2.70	37	24.71	2.57

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
8899.0	0.00	100	0.7	0.7	2.69	25	24.70	2.57
8900.0	0.00	100	0.0	0.0	2.70	30	24.69	2.57
8905.0	0.00	100	0.0	0.0	2.64	41	24.69	2.57
8906.0	0.00	100	0.7	0.7	2.69	49	24.69	2.57
8907.0	0.00	100	0.8	0.8	2.71	41	24.69	2.57
8908.0	0.00	100	1.8	1.8	2.73	26	24.68	2.57
8909.0	0.00	100	0.4	0.4	2.70	23	24.66	2.57
8910.0	0.00	100	0.9	0.5	2.69	19	24.66	2.57
8911.0	0.00	100	0.9	0.3	2.68	23	24.65	2.57
8912.0	0.00	100	0.2	0.0	2.70	39	24.64	2.57
8920.0	0.00	100	0.0	0.0	2.64	33	24.64	2.57
8924.0	0.00	100	0.0	0.0	2.64	46	24.64	2.57
8925.0	0.00	100	0.0	0.0	2.64	36	24.64	2.57
8926.0	0.00	100	0.4	0.4	2.69	44	24.64	2.57
8937.0	0.00	100	0.0	0.0	2.64	47	24.64	2.57
8938.0	0.00	100	0.0	0.0	2.64	44	24.64	2.57
8945.0	0.00	100	0.0	0.0	2.65	34	24.64	2.57
8946.0	0.00	100	0.0	0.0	2.76	43	24.64	2.57
8947.0	0.00	100	0.0	0.0	2.76	40	24.64	2.57
8948.0	0.00	100	0.0	0.0	2.71	33	24.64	2.57
8949.0	0.00	100	1.0	1.0	2.68	32	24.63	2.57
8950.0	0.00	100	1.3	0.3	2.67	24	24.62	2.57
8951.0	0.00	100	0.9	0.6	2.69	18	24.61	2.57
8952.0	0.00	100	0.0	0.0	2.71	23	24.60	2.57
8953.0	0.00	100	0.0	0.0	2.73	40	24.60	2.57
8956.0	0.00	100	0.0	0.0	2.76	42	24.60	2.57
8957.0	0.00	100	0.2	0.2	2.70	32	24.60	2.57
8958.0	0.00	100	0.0	0.0	2.74	31	24.60	2.57
8959.0	0.00	100	0.0	0.0	2.74	32	24.60	2.57
8960.0	0.00	100	0.0	0.0	2.75	38	24.60	2.57
8962.0	0.00	100	0.0	0.0	2.77	49	24.60	2.57
8963.0	0.00	100	0.0	0.0	2.73	38	24.60	2.57
8964.0	0.00	100	0.1	0.1	2.71	30	24.60	2.57
8965.0	0.00	100	0.4	0.4	2.70	25	24.60	2.57
8966.0	0.00	100	0.6	0.6	2.69	23	24.60	2.57
8967.0	0.00	100	0.4	0.4	2.70	32	24.59	2.57
8981.0	0.00	100	0.0	0.0	2.64	34	24.59	2.57
8982.0	0.00	100	0.1	0.1	2.71	21	24.59	2.57
8983.0	0.00	100	0.0	0.0	2.74	21	24.59	2.57
8984.0	0.00	100	0.0	0.0	2.76	33	24.59	2.57

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
8990.0	0.00	100	0.7	0.7	2.69	34	24.59	2.57
8991.0	0.00	100	0.7	0.7	2.69	31	24.58	2.57
8992.0	0.00	79	1.7	1.7	2.64	47	24.57	2.57
9009.0	0.00	100	0.0	0.0	2.64	46	24.56	2.57
9016.0	0.00	100	0.0	0.0	2.64	39	24.56	2.57
9017.0	0.00	100	0.0	0.0	2.72	35	24.56	2.57
9018.0	0.00	100	0.0	0.0	2.72	30	24.56	2.57
9019.0	0.00	100	0.0	0.0	2.72	27	24.56	2.57
9020.0	0.00	100	0.0	0.0	2.73	27	24.56	2.57
9021.0	0.00	100	0.0	0.0	2.75	30	24.56	2.57
9022.0	0.00	100	0.0	0.0	2.79	45	24.56	2.57
9025.0	0.00	100	0.0	0.0	2.77	44	24.56	2.57
9026.0	0.00	100	0.0	0.0	2.78	49	24.56	2.57
9029.0	0.00	100	0.0	0.0	2.75	45	24.56	2.57
9030.0	0.00	100	0.0	0.0	2.73	38	24.56	2.57
9031.0	0.00	100	0.1	0.1	2.71	29	24.56	2.57
9032.0	0.00	100	0.1	0.0	2.71	33	24.56	2.57
9033.0	0.00	100	0.0	0.0	2.71	43	24.56	2.57
9034.0	0.00	100	0.0	0.0	2.74	49	24.56	2.57
9035.0	0.00	100	0.0	0.0	2.72	40	24.56	2.57
9036.0	0.00	100	0.3	0.0	2.70	23	24.56	2.57
9037.0	0.00	100	0.4	0.0	2.70	19	24.56	2.57
9038.0	0.00	100	0.0	0.0	2.71	22	24.55	2.57
9039.0	0.00	100	0.0	0.0	2.73	34	24.55	2.57
9057.0	0.00	100	0.0	0.0	2.64	38	24.55	2.57
9058.0	0.00	100	0.0	0.0	2.66	15	24.55	2.57
9059.0	0.00	100	0.2	0.2	2.71	22	24.55	2.57
9060.0	0.00	100	0.0	0.0	2.73	22	24.55	2.57
9061.0	0.00	100	0.0	0.0	2.72	21	24.55	2.57
9062.0	0.00	100	0.2	0.2	2.70	19	24.55	2.57
9063.0	0.00	100	0.3	0.0	2.70	17	24.54	2.57
9064.0	0.00	100	0.2	0.0	2.71	20	24.54	2.57
9065.0	0.00	100	0.5	0.5	2.70	22	24.54	2.57
9066.0	0.00	100	0.5	0.5	2.70	21	24.53	2.57
9067.0	0.00	100	0.3	0.0	2.70	22	24.53	2.57
9068.0	0.00	100	0.2	0.0	2.71	21	24.53	2.57
9069.0	0.00	100	0.5	0.0	2.70	18	24.52	2.57
9070.0	0.00	100	0.8	0.0	2.69	17	24.52	2.57
9071.0	0.00	100	1.3	0.0	2.68	17	24.51	2.57
9072.0	0.00	100	1.6	0.0	2.67	18	24.50	2.57
9073.0	0.00	100	2.1	0.4	2.66	19	24.48	2.57
9074.0	0.00	100	2.3	0.7	2.66	19	24.46	2.57

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
9075.0	0.00	100	2.6	0.0	2.67	15	24.43	2.57
9076.0	0.00	100	3.4	0.0	2.67	10	24.41	2.57
9077.0	0.00	100	3.6	0.0	2.67	10	24.37	2.57
9078.0	0.00	100	2.8	0.4	2.66	13	24.34	2.57
9079.0	0.00	100	1.4	0.0	2.67	18	24.31	2.57
9080.0	0.00	100	1.0	0.4	2.68	19	24.30	2.57
9081.0	0.00	100	0.9	0.9	2.69	20	24.29	2.57
9082.0	0.00	100	0.6	0.6	2.69	19	24.28	2.57
9083.0	0.00	100	1.2	1.2	2.68	22	24.28	2.57
9084.0	0.00	100	4.2	4.2	2.64	29	24.26	2.57
9089.0	0.00	93	4.6	4.6	2.64	44	24.19	2.56
9097.0	0.00	100	0.0	0.0	2.76	41	24.17	2.56
9098.0	0.00	100	0.0	0.0	2.72	36	24.17	2.56
9099.0	0.00	100	0.0	0.0	2.71	29	24.17	2.56
9100.0	0.00	100	0.0	0.0	2.71	18	24.17	2.56
9101.0	0.00	100	0.0	0.0	2.72	19	24.17	2.56
9102.0	0.00	100	0.0	0.0	2.75	32	24.17	2.56
9118.0	0.00	100	0.0	0.0	2.71	44	24.17	2.56
9119.0	0.00	100	0.0	0.0	2.72	36	24.16	2.56
9120.0	0.00	100	0.0	0.0	2.73	38	24.16	2.56
9131.0	0.00	100	0.0	0.0	2.85	45	24.16	2.56
9135.0	0.00	100	0.1	0.1	2.70	40	24.16	2.56
9136.0	0.00	100	1.2	1.2	2.67	29	24.16	2.56
9137.0	0.00	100	3.8	3.0	2.65	20	24.15	2.56
9138.0	0.03	83	6.9	6.8	2.64	39	24.09	2.56
9162.0	0.00	100	0.0	0.0	2.82	49	24.06	2.55
9163.0	0.00	100	0.0	0.0	2.79	43	24.06	2.55
9164.0	0.00	100	0.0	0.0	2.77	42	24.06	2.55
9165.0	0.00	100	0.0	0.0	2.74	35	24.06	2.55
9166.0	0.00	100	0.9	0.9	2.68	25	24.06	2.55
9167.0	0.00	100	0.9	0.9	2.68	26	24.05	2.55
9168.0	0.00	100	0.0	0.0	2.72	42	24.04	2.55
9175.0	0.00	100	3.5	3.2	2.64	31	24.03	2.55
9176.0	0.00	100	1.0	1.0	2.67	43	23.99	2.55
9179.0	0.05	74	7.7	7.7	2.64	44	23.96	2.54
9196.0	0.00	100	0.0	0.0	2.65	36	23.92	2.53
9197.0	0.00	100	1.1	1.1	2.68	31	23.91	2.53
9198.0	0.00	100	1.5	0.6	2.67	26	23.90	2.53
9199.0	0.00	100	1.8	0.6	2.66	25	23.89	2.53

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
9200.0	0.00	100	1.8	1.0	2.66	25	23.87	2.53
9201.0	0.00	100	1.4	0.6	2.67	24	23.85	2.53
9202.0	0.00	100	1.0	1.0	2.68	30	23.84	2.53
9203.0	0.00	100	0.6	0.6	2.69	37	23.83	2.53
9210.0	0.00	100	1.4	1.4	2.65	47	23.80	2.53
9228.0	0.00	100	0.0	0.0	2.64	48	23.73	2.52
9229.0	0.00	100	0.0	0.0	2.75	45	23.73	2.52
9230.0	0.00	100	0.0	0.0	2.71	47	23.73	2.52
9231.0	0.00	100	4.1	4.1	2.64	45	23.73	2.52
9239.0	0.00	100	0.3	0.3	2.70	41	23.68	2.51
9240.0	0.00	100	0.0	0.0	2.75	35	23.68	2.51
9241.0	0.00	100	0.0	0.0	2.75	40	23.68	2.51
9242.0	0.00	100	0.0	0.0	2.74	48	23.68	2.51
9243.0	0.00	100	0.0	0.0	2.71	42	23.68	2.51
9244.0	0.00	100	0.2	0.2	2.70	38	23.68	2.51
9245.0	0.00	100	0.0	0.0	2.73	47	23.68	2.51
9246.0	0.00	100	0.0	0.0	2.73	42	23.68	2.51
9247.0	0.00	100	0.0	0.0	2.74	37	23.68	2.51
9254.0	0.00	100	1.2	1.2	2.67	39	23.68	2.51
9255.0	0.00	100	1.5	1.5	2.66	33	23.66	2.51
9256.0	0.00	100	0.6	0.6	2.69	32	23.65	2.51
9257.0	0.00	100	0.9	0.9	2.67	42	23.64	2.51
9263.0	1.88	64	14.0	7.6	2.64	0	23.64	2.51
9273.0	0.01	99	6.0	4.1	2.64	23	23.57	2.49
9274.0	0.00	100	1.2	1.2	2.67	36	23.53	2.49
9275.0	0.00	100	1.4	0.9	2.67	33	23.51	2.49
9276.0	0.00	100	2.0	1.0	2.65	33	23.50	2.49
9277.0	0.00	100	1.7	1.2	2.66	36	23.48	2.49
9278.0	0.00	100	3.8	0.0	2.67	21	23.46	2.49
9279.0	0.01	100	5.7	0.9	2.65	13	23.41	2.49
9280.0	0.01	93	6.1	0.6	2.65	10	23.35	2.48
9281.0	0.01	98	5.4	0.5	2.65	12	23.29	2.48
9282.0	0.00	100	3.6	1.0	2.65	20	23.25	2.48
9283.0	0.00	100	1.9	0.8	2.65	26	23.21	2.48
9284.0	0.00	100	1.9	0.5	2.65	26	23.19	2.48
9285.0	0.00	100	2.0	0.7	2.65	25	23.17	2.48
9286.0	0.00	100	2.1	1.0	2.65	25	23.15	2.48
9287.0	0.00	100	2.4	0.3	2.66	21	23.13	2.48
9288.0	0.00	100	2.3	0.7	2.66	21	23.11	2.48
9289.0	0.00	100	2.8	1.4	2.66	19	23.09	2.48
9290.0	0.00	100	2.5	0.4	2.67	19	23.06	2.48
9291.0	0.00	100	1.6	0.0	2.66	22	23.03	2.48

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
9292.0	0.00	100	0.9	0.0	2.64	22	23.02	2.48
9293.0	0.00	93	4.3	3.0	2.64	19	23.01	2.48
9294.0	0.00	100	3.3	0.2	2.67	17	22.97	2.48
9295.0	0.00	100	4.1	0.0	2.68	8	22.93	2.48
9296.0	0.00	100	4.2	0.0	2.67	10	22.89	2.48
9297.0	0.00	100	3.7	0.0	2.68	12	22.85	2.48
9298.0	0.00	100	4.2	0.0	2.67	11	22.81	2.48
9299.0	0.00	100	4.1	1.0	2.66	15	22.77	2.48
9300.0	0.00	100	3.7	0.6	2.65	20	22.73	2.48
9301.0	0.00	100	3.2	1.1	2.65	23	22.69	2.48
9302.0	0.00	100	3.2	3.2	2.65	29	22.66	2.48
9303.0	0.01	100	5.4	5.4	2.64	44	22.62	2.48
9342.0	0.00	69	4.2	4.2	2.66	23	22.57	2.47
9343.0	0.00	29	3.0	3.0	2.65	45	22.53	2.46
9359.0	0.10	67	8.6	8.6	2.65	38	22.52	2.45
9388.0	0.00	100	0.8	0.8	2.68	42	22.47	2.44
9389.0	0.01	84	5.2	5.2	2.64	38	22.46	2.44
9407.0	0.00	100	0.0	0.0	2.64	28	22.40	2.42
9408.0	0.00	100	0.0	0.0	2.73	49	22.40	2.42
9409.0	0.00	100	0.0	0.0	2.76	41	22.40	2.42
9410.0	0.00	100	0.0	0.0	2.76	41	22.40	2.42
9411.0	0.00	100	0.0	0.0	2.74	45	22.40	2.42
9412.0	0.00	100	0.0	0.0	2.71	36	22.40	2.42
9413.0	0.00	100	0.2	0.2	2.70	30	22.40	2.42
9414.0	0.00	100	0.4	0.4	2.70	33	22.39	2.42
9423.0	0.00	100	0.0	0.0	2.64	45	22.39	2.42
9424.0	0.00	100	0.0	0.0	2.64	45	22.39	2.42
9425.0	0.00	100	1.1	1.1	2.66	47	22.37	2.42
9429.0	0.04	100	7.4	0.0	2.74	46	22.36	2.42
9493.0	0.00	100	0.0	0.0	2.64	34	22.33	2.42
9494.0	0.00	100	0.3	0.3	2.70	23	22.32	2.42
9495.0	0.00	100	1.6	0.9	2.68	21	22.32	2.42
9496.0	0.00	100	2.0	0.3	2.67	21	22.30	2.42
9497.0	0.00	100	1.8	1.8	2.66	26	22.28	2.42
9498.0	0.00	100	2.6	2.6	2.65	24	22.26	2.42
9499.0	0.00	100	2.0	2.0	2.65	27	22.23	2.42
9500.0	0.00	100	1.3	1.3	2.67	26	22.21	2.42
9501.0	0.00	100	0.8	0.2	2.69	22	22.20	2.42
9502.0	0.00	100	0.4	0.3	2.70	21	22.19	2.42
9503.0	0.00	100	0.1	0.1	2.71	22	22.19	2.42
9504.0	0.00	100	0.0	0.0	2.72	27	22.19	2.42

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
9505.0	0.00	100	0.0	0.0	2.73	30	22.19	2.42
9506.0	0.00	100	0.0	0.0	2.73	32	22.19	2.42
9507.0	0.00	100	0.2	0.2	2.71	31	22.19	2.42
9508.0	0.00	100	2.0	0.2	2.70	22	22.19	2.42
9509.0	0.00	100	3.6	0.0	2.69	16	22.16	2.42
9510.0	0.00	100	3.7	0.0	2.68	15	22.12	2.42
9511.0	0.00	100	4.0	0.0	2.68	14	22.09	2.42
9512.0	0.00	100	3.6	0.0	2.68	17	22.05	2.42
9513.0	0.00	100	3.5	0.0	2.67	18	22.01	2.42
9514.0	0.00	100	3.3	0.3	2.65	21	21.98	2.42
9515.0	0.00	100	3.0	0.2	2.65	20	21.94	2.42
9516.0	0.00	100	2.0	1.1	2.65	23	21.92	2.42
9517.0	0.00	100	1.6	1.3	2.67	22	21.90	2.42
9518.0	0.00	100	1.2	0.9	2.68	20	21.88	2.42
9519.0	0.00	100	1.2	1.2	2.68	20	21.87	2.42
9520.0	0.00	100	1.2	1.2	2.68	23	21.86	2.42
9521.0	0.00	100	1.0	1.0	2.68	29	21.85	2.42
9522.0	0.00	100	1.1	1.1	2.70	30	21.84	2.42
9523.0	0.00	100	1.4	0.5	2.70	26	21.83	2.42
9524.0	0.00	100	2.3	0.2	2.69	20	21.81	2.42
9525.0	0.00	100	2.7	0.1	2.68	17	21.79	2.42
9526.0	0.00	100	2.0	1.6	2.66	23	21.76	2.42
9527.0	0.00	100	1.4	1.4	2.67	23	21.74	2.42
9528.0	0.00	100	1.0	1.0	2.68	25	21.73	2.42
9529.0	0.00	100	0.8	0.8	2.69	27	21.72	2.42
9530.0	0.00	100	0.0	0.0	2.71	25	21.72	2.42
9531.0	0.00	100	0.0	0.0	2.72	22	21.71	2.42
9532.0	0.00	100	0.0	0.0	2.72	26	21.71	2.42
9533.0	0.00	100	0.4	0.4	2.70	33	21.71	2.42
9534.0	0.00	100	0.1	0.1	2.71	47	21.71	2.42
9538.0	0.00	100	0.1	0.1	2.71	48	21.71	2.42
9539.0	0.00	100	0.7	0.7	2.69	30	21.71	2.42
9540.0	0.00	100	1.2	1.2	2.68	18	21.70	2.42
9541.0	0.00	100	1.1	1.1	2.68	20	21.69	2.42
9542.0	0.00	100	0.4	0.4	2.70	24	21.68	2.42
9543.0	0.00	100	0.0	0.0	2.71	27	21.67	2.42
9544.0	0.00	100	0.0	0.0	2.72	25	21.67	2.42
9545.0	0.00	100	0.4	0.4	2.70	25	21.67	2.42
9546.0	0.00	100	1.1	1.1	2.68	35	21.67	2.42
9547.0	0.00	100	0.0	0.0	2.65	48	21.66	2.42
9561.0	0.00	100	0.9	0.9	2.68	38	21.66	2.42
9562.0	0.00	100	3.3	3.3	2.64	37	21.65	2.42
9567.0	0.00	100	1.9	0.0	2.64	41	21.63	2.42
9568.0	0.00	100	0.6	0.0	2.64	37	21.61	2.42
9569.0	0.00	100	0.0	0.0	2.64	29	21.60	2.42

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
9570.0	0.00	100	4.6	0.0	2.64	33	21.60	2.42
9587.0	0.00	100	0.0	0.0	2.65	49	21.54	2.42
9588.0	0.00	100	0.0	0.0	2.64	48	21.54	2.42
9589.0	0.00	100	0.1	0.0	2.64	43	21.54	2.42
9590.0	0.00	100	1.4	0.0	2.64	47	21.54	2.42
9591.0	0.00	100	3.7	0.0	2.64	47	21.52	2.42
9592.0	0.00	100	2.4	0.0	2.65	48	21.48	2.42
9593.0	0.00	100	3.1	0.0	2.65	44	21.46	2.42
9594.0	0.00	100	4.1	0.0	2.65	37	21.42	2.42
9595.0	0.00	100	3.2	0.0	2.65	38	21.39	2.42
9596.0	0.00	100	2.6	0.0	2.65	39	21.36	2.42
9597.0	0.00	100	3.3	0.0	2.67	37	21.33	2.42
9598.0	0.00	100	2.6	0.0	2.67	39	21.30	2.42
9599.0	0.00	100	1.8	0.0	2.66	39	21.27	2.42
9600.0	0.00	100	1.2	0.0	2.67	40	21.26	2.42
9601.0	0.00	100	1.9	0.0	2.67	39	21.24	2.42
9602.0	0.00	100	1.8	0.0	2.66	40	21.22	2.42
9603.0	0.00	100	2.2	0.0	2.66	40	21.20	2.42
9604.0	0.00	100	1.9	0.0	2.67	42	21.18	2.42
9619.0	0.00	100	0.0	0.0	2.64	47	21.16	2.42
9627.0	0.00	100	3.9	0.0	2.67	34	21.15	2.42
9628.0	0.00	100	5.1	0.0	2.66	30	21.11	2.42
9629.0	0.01	100	5.5	0.0	2.66	28	21.05	2.42
9630.0	0.00	100	4.7	0.0	2.65	32	21.00	2.42
9631.0	0.00	100	4.5	0.0	2.64	33	20.95	2.42
9632.0	0.00	100	4.0	0.0	2.64	35	20.91	2.42
9633.0	0.00	100	4.1	0.0	2.64	33	20.87	2.42
9634.0	0.00	100	1.7	0.0	2.64	36	20.84	2.42
9635.0	0.00	100	2.0	0.0	2.64	38	20.82	2.42
9638.0	0.00	100	0.0	0.0	2.64	42	20.77	2.42
9639.0	0.00	100	2.1	0.0	2.69	36	20.77	2.42
9640.0	0.00	100	0.0	0.0	2.64	48	20.75	2.42
9665.0	0.00	100	0.0	0.0	2.66	48	20.75	2.42
9666.0	0.00	100	0.5	0.0	2.64	40	20.75	2.42
9667.0	0.00	100	0.8	0.0	2.65	38	20.75	2.42
9668.0	0.00	100	1.4	0.0	2.66	34	20.74	2.42
9669.0	0.00	100	0.3	0.0	2.67	38	20.73	2.42
9670.0	0.00	100	0.0	0.0	2.66	46	20.72	2.42
9671.0	0.00	100	2.4	0.0	2.64	43	20.72	2.42
9672.0	0.00	100	4.4	0.0	2.64	39	20.69	2.42
9673.0	0.01	100	5.4	0.0	2.64	36	20.64	2.42
9674.0	0.01	100	5.6	0.0	2.64	37	20.59	2.42
9675.0	0.00	100	5.0	0.0	2.64	40	20.53	2.42

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
9676.0	0.00	100	5.0	0.0	2.64	40	20.49	2.42
9677.0	0.01	100	5.9	0.0	2.66	36	20.43	2.42
9678.0	0.02	100	6.8	0.0	2.66	35	20.37	2.42
9679.0	0.05	100	7.7	0.0	2.65	31	20.30	2.42
9680.0	0.04	100	7.5	0.0	2.64	31	20.22	2.42
9681.0	0.01	100	6.2	0.0	2.64	35	20.15	2.42
9682.0	0.01	100	5.2	0.0	2.64	34	20.09	2.42
9683.0	0.00	100	4.2	0.0	2.64	30	20.05	2.42
9684.0	0.00	100	1.2	0.0	2.65	35	20.01	2.42
9685.0	0.00	100	0.8	0.0	2.65	40	20.00	2.42
9686.0	0.00	100	1.7	0.0	2.64	47	19.99	2.42
9689.0	0.00	100	1.0	0.0	2.64	43	19.97	2.42
9690.0	0.00	100	3.3	0.0	2.64	35	19.95	2.42
9691.0	0.00	100	3.0	0.0	2.64	36	19.92	2.42
9692.0	0.00	100	3.1	0.0	2.64	35	19.89	2.42
9693.0	0.00	100	1.8	0.0	2.64	38	19.86	2.42
9694.0	0.00	100	0.8	0.0	2.64	40	19.85	2.42
9695.0	0.00	100	0.7	0.0	2.64	40	19.84	2.42
9696.0	0.00	100	2.9	0.0	2.64	30	19.82	2.42
9697.0	0.00	100	0.0	0.0	2.64	40	19.80	2.42
9726.0	0.00	100	0.9	0.0	2.65	45	19.80	2.42
9727.0	0.00	100	3.7	0.0	2.64	38	19.79	2.42
9728.0	0.02	100	6.3	0.0	2.64	30	19.74	2.42
9729.0	0.00	100	5.1	0.0	2.64	34	19.68	2.42
9730.0	0.00	100	5.0	0.1	2.64	32	19.63	2.42
9731.0	0.00	100	4.7	0.0	2.65	34	19.58	2.42
9732.0	0.00	100	3.9	0.0	2.65	36	19.54	2.42
9733.0	0.00	100	3.3	0.0	2.65	35	19.50	2.42
9734.0	0.00	100	3.4	0.0	2.67	29	19.47	2.42
9735.0	0.00	100	2.8	0.0	2.68	29	19.43	2.42
9736.0	0.00	100	2.6	0.0	2.68	30	19.41	2.42
9737.0	0.00	100	1.8	0.0	2.68	38	19.38	2.42
9738.0	0.00	100	3.4	0.0	2.65	41	19.36	2.42
9739.0	0.00	100	0.0	0.0	2.64	31	19.35	2.42
9740.0	0.00	100	4.3	0.0	2.64	28	19.32	2.42
9741.0	0.00	100	4.9	0.0	2.64	27	19.28	2.42
9742.0	0.00	100	0.6	0.0	2.64	38	19.24	2.42
9751.0	0.00	100	0.5	0.0	2.64	30	19.23	2.42
9752.0	0.00	100	0.6	0.6	2.69	39	19.22	2.42
9753.0	0.00	100	1.1	1.1	2.67	40	19.22	2.42
9754.0	0.00	92	4.5	4.5	2.65	42	19.20	2.42
9820.0	0.00	100	0.1	0.0	2.65	41	19.18	2.42
9821.0	0.00	100	0.7	0.0	2.64	44	19.18	2.42
9822.0	0.00	100	1.0	0.0	2.64	37	19.17	2.42

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
9823.0	0.00	100	1.7	0.0	2.64	32	19.16	2.42
9824.0	0.00	100	0.6	0.0	2.64	35	19.14	2.42
9825.0	0.00	100	0.0	0.0	2.65	44	19.14	2.42
9826.0	0.00	100	0.0	0.0	2.65	39	19.14	2.42
9827.0	0.00	100	0.7	0.0	2.64	34	19.14	2.42
9828.0	0.00	100	0.5	0.0	2.64	37	19.13	2.42
9829.0	0.00	100	0.0	0.0	2.64	49	19.13	2.42
9830.0	0.00	100	0.0	0.0	2.64	46	19.13	2.42
9831.0	0.00	100	0.2	0.0	2.64	42	19.13	2.42
9832.0	0.00	100	0.0	0.0	2.65	45	19.13	2.42
9838.0	0.00	100	1.6	0.0	2.64	22	19.13	2.42
9839.0	0.00	100	1.2	1.2	2.67	39	19.10	2.42
9840.0	0.00	100	0.9	0.9	2.69	36	19.09	2.42
9841.0	0.00	100	0.9	0.9	2.68	36	19.08	2.42
9842.0	0.00	100	1.2	1.0	2.67	31	19.07	2.42
9843.0	0.00	100	1.2	0.0	2.67	26	19.06	2.42
9844.0	0.00	100	1.1	0.0	2.68	22	19.05	2.42
9845.0	0.00	100	1.2	1.2	2.68	21	19.04	2.42
9846.0	0.00	100	1.5	1.5	2.67	26	19.02	2.42
9847.0	0.00	99	3.2	3.2	2.65	31	19.01	2.42
9848.0	0.00	100	2.2	0.0	2.65	13	18.96	2.41
9857.0	0.00	100	0.0	0.0	2.64	48	18.95	2.41
9899.0	0.00	100	0.0	0.0	2.64	41	18.95	2.41
9900.0	0.00	100	0.0	0.0	2.64	39	18.95	2.41
9901.0	0.00	100	0.0	0.0	2.64	40	18.95	2.41
9930.0	0.01	83	5.6	5.6	2.64	47	18.95	2.41
9954.0	0.00	100	1.4	1.4	2.65	47	18.87	2.40
9955.0	0.00	100	0.0	0.0	2.64	45	18.83	2.40
9963.0	0.00	100	3.0	0.0	2.66	19	18.83	2.40
9964.0	0.00	100	5.0	5.0	2.64	44	18.78	2.40
9965.0	1.22	61	13.0	8.4	2.66	6	18.72	2.39
9996.0	0.00	100	2.3	2.3	2.65	44	18.62	2.36
9997.0	0.00	100	2.8	0.0	2.65	41	18.59	2.36
9998.0	0.00	100	5.1	4.2	2.64	29	18.56	2.36
9999.0	0.68	84	11.8	7.7	2.64	9	18.50	2.36
10004.0	0.02	96	6.6	6.6	2.64	48	18.37	2.33
10034.0	0.00	100	0.0	0.0	2.64	42	18.22	2.31
10035.0	0.00	100	0.9	0.9	2.68	38	18.22	2.31
10036.0	0.00	100	0.5	0.5	2.69	42	18.21	2.31

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
10037.0	0.00	100	3.2	3.2	2.65	47	18.20	2.31
10038.0	0.55	82	11.4	9.2	2.65	18	18.15	2.31
10042.0	0.00	100	0.0	0.0	2.71	43	18.09	2.30
10043.0	0.00	100	0.1	0.1	2.70	38	18.09	2.30
10044.0	0.00	100	0.4	0.4	2.70	38	18.09	2.30
10045.0	0.00	100	0.0	0.0	2.71	46	18.08	2.30
10069.0	0.00	100	0.0	0.0	2.64	35	18.08	2.30
10070.0	0.00	100	0.0	0.0	2.64	36	18.08	2.30
10071.0	0.00	100	1.1	0.0	2.64	33	18.08	2.30
10072.0	0.00	100	2.6	0.0	2.65	31	18.07	2.30
10073.0	0.00	100	4.5	0.0	2.64	24	18.04	2.30
10074.0	0.01	100	6.1	0.0	2.64	23	17.99	2.30
10075.0	0.02	100	6.5	0.0	2.64	16	17.93	2.30
10076.0	0.00	100	4.8	0.1	2.64	22	17.86	2.30
10077.0	0.01	100	5.2	0.0	2.64	18	17.82	2.30
10078.0	0.02	100	6.5	0.0	2.64	17	17.76	2.30
10079.0	0.01	100	5.7	0.0	2.64	22	17.70	2.30
10080.0	0.00	100	3.5	0.0	2.64	29	17.65	2.30
10081.0	0.02	100	6.5	0.0	2.64	13	17.61	2.30
10082.0	0.00	100	4.9	0.0	2.66	19	17.55	2.30
10083.0	0.01	100	5.6	0.0	2.65	17	17.50	2.30
10084.0	0.00	100	5.1	0.0	2.64	20	17.44	2.30
10085.0	0.00	100	2.7	0.0	2.64	28	17.40	2.30
10086.0	0.00	100	1.0	0.0	2.64	38	17.37	2.30
10087.0	0.00	100	2.1	0.0	2.64	37	17.36	2.30
10088.0	0.00	100	1.3	0.0	2.65	36	17.34	2.30
10089.0	0.00	100	2.5	0.0	2.64	28	17.33	2.30
10090.0	0.00	100	2.5	0.0	2.64	28	17.30	2.30
10091.0	0.00	100	2.4	0.0	2.64	30	17.28	2.30
10092.0	0.00	100	2.7	0.0	2.64	29	17.26	2.30
10093.0	0.00	100	1.3	0.0	2.64	36	17.23	2.30
10094.0	0.00	100	0.3	0.0	2.64	41	17.22	2.30
10095.0	0.00	100	0.0	0.0	2.64	47	17.22	2.30
10096.0	0.00	100	3.4	0.0	2.65	32	17.21	2.30
10097.0	0.00	100	4.9	0.0	2.64	24	17.17	2.30
10098.0	0.00	100	3.3	0.0	2.65	31	17.12	2.30
10099.0	0.00	100	2.0	0.0	2.65	36	17.09	2.30
10100.0	0.00	100	4.0	0.0	2.64	30	17.07	2.30
10101.0	0.00	100	3.0	0.0	2.64	35	17.02	2.30
10102.0	0.00	100	3.1	0.0	2.64	33	16.99	2.30
10103.0	0.00	100	1.7	0.0	2.64	38	16.96	2.30
10104.0	0.00	100	0.5	0.0	2.65	45	16.95	2.30
10112.0	0.00	100	0.9	0.0	2.64	37	16.95	2.30
10113.0	0.00	100	0.4	0.0	2.64	38	16.94	2.30
10114.0	0.00	100	2.0	0.0	2.64	35	16.94	2.30

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
10115.0	0.00	100	1.7	0.0	2.65	35	16.92	2.30
10116.0	0.00	100	1.5	0.8	2.66	39	16.90	2.30
10117.0	0.00	100	1.2	0.8	2.67	39	16.88	2.30
10118.0	0.00	100	1.4	1.4	2.66	39	16.87	2.30
10119.0	0.00	100	1.9	1.5	2.65	40	16.86	2.30
10120.0	0.00	100	2.7	2.5	2.65	41	16.83	2.30
10128.0	0.00	100	1.3	1.3	2.66	40	16.80	2.30
10129.0	0.00	100	2.3	2.3	2.65	41	16.78	2.30
10130.0	0.00	92	5.1	5.1	2.64	46	16.76	2.30
10162.0	0.00	100	0.0	0.0	2.64	44	16.73	2.29
10175.0	0.00	100	0.0	0.0	2.64	49	16.73	2.29
10206.0	0.00	100	0.0	0.0	2.64	43	16.73	2.29
10207.0	0.00	100	0.0	0.0	2.65	47	16.73	2.29
10208.0	0.00	100	0.0	0.0	2.64	47	16.73	2.29
10209.0	0.00	100	1.2	0.0	2.64	39	16.73	2.29
10210.0	0.00	100	1.8	0.0	2.65	38	16.72	2.29
10211.0	0.00	100	1.6	0.0	2.64	36	16.70	2.29
10212.0	0.00	100	0.9	0.0	2.64	41	16.68	2.29
10213.0	0.00	100	0.2	0.0	2.64	44	16.68	2.29
10214.0	0.00	100	0.0	0.0	2.64	46	16.67	2.29
10215.0	0.00	100	0.0	0.0	2.64	44	16.67	2.29
10237.0	0.00	100	0.0	0.0	2.66	48	16.67	2.29
10238.0	0.00	100	0.0	0.0	2.66	45	16.67	2.29
10239.0	0.00	100	0.0	0.0	2.65	45	16.67	2.29
10240.0	0.00	100	0.4	0.0	2.64	38	16.67	2.29
10241.0	0.00	100	0.0	0.0	2.64	44	16.67	2.29
10242.0	0.00	100	0.0	0.0	2.65	42	16.67	2.29
10243.0	0.00	100	0.3	0.0	2.65	38	16.67	2.29
10244.0	0.00	100	1.4	0.0	2.64	33	16.67	2.29
10245.0	0.00	100	1.0	0.0	2.64	36	16.65	2.29
10246.0	0.00	100	0.0	0.0	2.66	40	16.64	2.29
10247.0	0.00	100	0.4	0.0	2.64	43	16.64	2.29
10248.0	0.00	100	0.5	0.0	2.64	41	16.64	2.29
10249.0	0.00	100	1.2	0.0	2.64	35	16.63	2.29
10250.0	0.00	100	3.7	0.0	2.64	27	16.61	2.29
10251.0	0.00	100	4.1	0.0	2.64	27	16.57	2.29
10252.0	0.00	100	4.2	0.0	2.64	30	16.53	2.29
10253.0	0.00	100	1.8	0.0	2.64	37	16.50	2.29
10254.0	0.00	100	1.3	0.0	2.64	42	16.48	2.29
10255.0	0.00	100	1.5	0.0	2.65	39	16.47	2.29
10256.0	0.00	100	0.8	0.0	2.64	41	16.45	2.29
10257.0	0.00	100	0.4	0.0	2.65	43	16.45	2.29
10258.0	0.00	100	1.2	0.0	2.65	43	16.44	2.29

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS BC-FT
10259.0	0.05	100	7.6	0.0	2.64	39	16.41	2.29
10260.0	0.00	100	0.5	0.0	2.64	49	16.36	2.29
10271.0	0.00	100	0.1	0.0	2.64	31	16.36	2.29
10272.0	0.00	100	0.9	0.0	2.64	33	16.36	2.29
10273.0	0.00	100	0.8	0.0	2.64	38	16.35	2.29
10274.0	0.00	100	2.3	0.0	2.64	32	16.34	2.29
10275.0	0.00	100	3.6	0.0	2.64	24	16.31	2.29
10276.0	0.00	100	1.3	0.0	2.67	22	16.29	2.29
10277.0	0.00	100	4.3	0.0	2.64	11	16.27	2.29
10278.0	0.02	70	6.3	0.0	2.64	8	16.22	2.29
10279.0	0.02	65	6.5	0.0	2.64	4	16.16	2.27
10280.0	0.01	70	5.8	0.9	2.64	5	16.09	2.24
10281.0	0.00	91	4.5	0.0	2.64	6	16.03	2.23
10282.0	0.00	86	4.8	0.0	2.64	6	15.99	2.23
10283.0	0.02	64	6.3	0.1	2.64	12	15.94	2.22
10284.0	0.00	93	4.5	0.0	2.64	20	15.88	2.20
10285.0	0.00	100	2.3	0.0	2.64	29	15.84	2.20
10286.0	0.00	100	3.3	0.0	2.64	43	15.82	2.20
10301.0	0.00	100	2.3	2.3	2.65	49	15.80	2.20
10302.0	0.00	100	3.6	2.4	2.64	49	15.79	2.20
10303.0	0.01	100	6.2	0.4	2.64	30	15.74	2.20
10304.0	0.05	100	7.7	0.0	2.64	14	15.68	2.20
10305.0	0.17	85	9.4	0.0	2.64	5	15.60	2.20
10306.0	0.09	90	8.4	0.0	2.64	8	15.50	2.18
10307.0	0.04	100	7.3	0.0	2.64	13	15.42	2.18
10308.0	0.02	100	6.7	0.0	2.64	15	15.35	2.18
10309.0	0.00	100	4.8	0.6	2.64	28	15.29	2.18
10310.0	0.01	100	5.8	0.0	2.65	17	15.23	2.18
10311.0	0.00	100	5.2	0.0	2.65	19	15.18	2.18
10312.0	0.00	100	4.0	0.1	2.65	25	15.13	2.18
10313.0	0.00	100	3.9	0.6	2.65	27	15.09	2.18
10314.0	0.00	100	3.7	1.4	2.65	28	15.05	2.18
10315.0	0.00	100	2.9	2.8	2.65	38	15.02	2.18
10319.0	0.00	100	4.2	4.2	2.64	44	14.99	2.18
10324.0	0.19	100	9.5	5.3	2.64	31	14.94	2.18
10326.0	0.00	100	2.0	2.0	2.65	44	14.88	2.18
10327.0	0.00	100	3.7	1.5	2.65	34	14.86	2.18
10328.0	0.00	100	4.4	0.3	2.65	30	14.82	2.18
10329.0	0.00	100	3.0	1.1	2.65	39	14.78	2.18
10330.0	0.00	100	2.2	1.1	2.65	38	14.75	2.18
10331.0	0.00	100	3.2	0.8	2.65	30	14.73	2.18
10332.0	0.00	100	3.4	0.8	2.65	28	14.70	2.18
10333.0	0.00	100	2.0	1.5	2.65	36	14.67	2.18

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
10334.0	0.00	100	1.2	1.2	2.67	39	14.65	2.18
10335.0	0.00	100	1.4	1.4	2.66	37	14.64	2.18
10336.0	0.00	100	1.4	1.4	2.67	34	14.62	2.18
10337.0	0.00	100	1.1	1.1	2.67	34	14.61	2.18
10338.0	0.00	100	0.9	0.9	2.68	34	14.60	2.18
10339.0	0.00	100	1.2	1.2	2.67	31	14.59	2.18
10340.0	0.00	100	1.6	1.5	2.66	30	14.58	2.18
10341.0	0.00	100	1.6	1.6	2.66	29	14.56	2.18
10342.0	0.00	100	0.8	0.3	2.69	27	14.55	2.18
10343.0	0.00	100	0.9	0.3	2.68	26	14.54	2.18
10344.0	0.00	100	1.3	0.1	2.67	28	14.53	2.18
10345.0	0.00	100	1.6	0.0	2.66	30	14.52	2.18
10346.0	0.00	100	2.5	0.2	2.65	30	14.50	2.18
10347.0	0.00	100	2.7	0.6	2.65	30	14.47	2.18
10348.0	0.00	100	2.5	0.5	2.65	32	14.45	2.18
10349.0	0.00	100	3.0	0.2	2.66	29	14.42	2.18
10350.0	0.00	100	3.7	0.7	2.65	28	14.39	2.18
10351.0	0.00	100	3.8	0.7	2.65	28	14.35	2.18
10352.0	0.00	100	3.7	0.6	2.64	26	14.31	2.18
10353.0	0.00	100	3.7	0.1	2.65	22	14.28	2.18
10354.0	0.00	100	1.9	0.2	2.65	28	14.24	2.18
10355.0	0.00	100	1.5	0.0	2.67	26	14.23	2.18
10356.0	0.00	100	1.1	1.1	2.68	25	14.21	2.18
10357.0	0.00	100	0.4	0.4	2.70	23	14.20	2.18
10358.0	0.00	100	0.3	0.1	2.70	22	14.20	2.18
10359.0	0.00	100	0.6	0.0	2.69	28	14.20	2.18
10360.0	0.00	100	0.6	0.6	2.69	40	14.19	2.18
10375.0	0.00	100	1.6	1.6	2.65	45	14.18	2.18
10376.0	0.00	100	1.3	0.0	2.66	43	14.16	2.18
10377.0	0.00	100	1.0	1.0	2.67	43	14.15	2.18
10378.0	0.00	100	0.7	0.7	2.68	49	14.14	2.18
10511.0	0.00	100	2.9	1.3	2.65	40	14.10	2.18
10512.0	0.00	100	1.4	1.0	2.65	44	14.07	2.18
10513.0	0.00	100	1.2	1.2	2.67	43	14.06	2.18
10514.0	0.00	100	0.8	0.8	2.68	44	14.05	2.18
10515.0	0.00	100	0.6	0.6	2.68	48	14.04	2.18
10526.0	0.02	100	6.4	0.0	2.64	33	14.04	2.18
10527.0	0.00	100	3.8	1.2	2.65	38	13.97	2.18
10528.0	0.00	100	1.6	1.6	2.66	28	13.94	2.18
10529.0	0.00	100	1.1	1.1	2.68	19	13.93	2.18
10530.0	0.00	100	1.2	0.0	2.68	21	13.92	2.18
10531.0	0.00	100	1.6	1.6	2.67	22	13.90	2.18
10532.0	0.00	100	2.5	0.1	2.65	19	13.89	2.18
10533.0	0.00	100	2.3	2.3	2.65	21	13.86	2.18
10534.0	0.00	100	2.0	1.0	2.65	22	13.84	2.18

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
10535.0	0.00	100	3.6	0.3	2.65	15	13.82	2.18
10536.0	0.01	83	6.2	0.0	2.65	4	13.78	2.18
10537.0	0.02	79	6.6	0.0	2.65	3	13.71	2.17
10538.0	0.03	74	7.0	0.0	2.65	2	13.65	2.15
10539.0	0.04	71	7.3	0.0	2.65	1	13.57	2.13
10540.0	0.03	75	7.0	0.0	2.65	3	13.50	2.12
10541.0	0.07	65	8.0	0.0	2.66	0	13.43	2.10
10542.0	0.03	76	6.9	0.0	2.65	5	13.35	2.07
10543.0	0.01	81	6.2	0.0	2.65	10	13.28	2.06
10544.0	0.00	100	4.5	0.0	2.65	17	13.22	2.05
10545.0	0.00	100	3.4	0.0	2.65	19	13.18	2.05
10546.0	0.00	100	3.1	0.0	2.65	20	13.15	2.05
10547.0	0.00	100	2.5	0.7	2.65	24	13.12	2.05
10548.0	0.00	100	2.4	1.9	2.65	34	13.10	2.05
10549.0	0.00	100	1.4	1.4	2.65	47	13.07	2.05
10551.0	0.00	100	0.4	0.0	2.65	48	13.07	2.05
10552.0	0.00	100	0.0	0.0	2.65	47	13.06	2.05
10553.0	0.00	100	0.0	0.0	2.69	43	13.06	2.05
10554.0	0.00	100	0.0	0.0	2.72	41	13.06	2.05
10555.0	0.00	100	0.0	0.0	2.69	46	13.06	2.05
10557.0	0.00	100	2.1	0.0	2.64	46	13.06	2.05
10558.0	0.00	100	0.2	0.0	2.64	47	13.04	2.05
10583.0	0.00	100	1.8	0.0	2.64	38	13.03	2.05
10584.0	0.00	100	2.3	0.0	2.64	39	13.01	2.05
10585.0	0.00	100	1.7	0.0	2.64	42	12.99	2.05
10599.0	0.00	100	1.4	1.4	2.65	49	12.97	2.05
10600.0	0.00	100	2.4	1.9	2.65	38	12.96	2.05
10601.0	0.00	100	3.6	0.0	2.65	32	12.93	2.05
10602.0	0.00	100	4.9	0.0	2.65	23	12.89	2.05
10603.0	0.01	100	5.4	0.0	2.65	17	12.84	2.05
10604.0	0.00	100	4.0	0.0	2.65	19	12.79	2.05
10605.0	0.00	100	1.7	0.0	2.66	22	12.75	2.05
10606.0	0.00	100	0.8	0.0	2.69	19	12.74	2.05
10607.0	0.00	100	0.5	0.0	2.70	19	12.73	2.05
10608.0	0.00	100	0.7	0.7	2.69	21	12.73	2.05
10609.0	0.00	100	1.7	1.7	2.66	29	12.72	2.05
10610.0	0.02	100	6.5	6.5	2.64	40	12.69	2.05
10634.0	0.00	100	3.6	1.0	2.65	40	12.64	2.05
10635.0	0.00	100	4.6	0.4	2.65	34	12.60	2.05
10636.0	0.00	100	3.7	0.2	2.65	37	12.56	2.05
10637.0	0.00	100	2.5	0.5	2.65	39	12.53	2.05
10638.0	0.00	100	1.4	1.4	2.66	40	12.50	2.05
10639.0	0.00	100	0.9	0.8	2.68	40	12.49	2.05

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
10640.0	0.00	100	1.1	0.6	2.67	44	12.48	2.05
10641.0	0.00	100	2.4	0.8	2.65	41	12.47	2.05
10642.0	0.00	100	2.8	1.3	2.65	42	12.44	2.05
10643.0	0.00	100	2.6	1.7	2.65	45	12.42	2.05
10644.0	0.00	100	2.6	1.4	2.65	45	12.39	2.05
10645.0	0.00	100	2.8	1.4	2.65	43	12.36	2.05
10646.0	0.00	100	2.6	1.1	2.65	45	12.33	2.05
10647.0	0.00	100	1.7	1.3	2.65	49	12.31	2.05
10648.0	0.00	100	1.5	1.4	2.65	48	12.30	2.05
10649.0	0.00	100	1.6	1.6	2.65	46	12.29	2.05
10650.0	0.00	100	1.1	1.1	2.66	47	12.27	2.05
10651.0	0.00	100	0.9	0.8	2.67	49	12.26	2.05
10652.0	0.00	100	2.0	2.0	2.65	44	12.25	2.05
10653.0	0.00	100	1.9	1.9	2.65	44	12.23	2.05
10654.0	0.00	100	2.0	2.0	2.65	43	12.21	2.05
10655.0	0.00	100	1.6	1.6	2.65	45	12.19	2.05
10656.0	0.00	100	1.1	1.1	2.66	48	12.18	2.05
10657.0	0.00	100	1.1	1.1	2.67	44	12.17	2.05
10658.0	0.00	100	1.8	1.2	2.65	34	12.15	2.05
10659.0	0.00	100	2.1	0.5	2.65	34	12.13	2.05
10660.0	0.00	100	1.4	1.4	2.66	40	12.11	2.05
10661.0	0.00	100	1.3	1.3	2.66	40	12.10	2.05
10662.0	0.00	100	1.2	1.2	2.67	34	12.09	2.05
10663.0	0.00	100	0.4	0.4	2.70	36	12.08	2.05
10664.0	0.00	100	0.1	0.0	2.71	38	12.07	2.05
10665.0	0.00	100	0.4	0.0	2.69	40	12.07	2.05
10666.0	0.00	100	1.3	1.0	2.66	40	12.07	2.05
10667.0	0.00	100	1.8	1.3	2.65	35	12.05	2.05
10668.0	0.00	100	1.6	0.2	2.66	36	12.03	2.05
10669.0	0.00	100	1.9	0.8	2.65	37	12.02	2.05
10670.0	0.00	100	2.1	0.5	2.65	37	12.00	2.05
10671.0	0.00	100	3.2	0.5	2.65	34	11.98	2.05
10672.0	0.00	100	4.3	1.1	2.65	30	11.94	2.05
10673.0	0.00	100	3.8	0.8	2.65	31	11.90	2.05
10674.0	0.00	100	4.0	0.8	2.65	30	11.86	2.05
10675.0	0.00	100	4.8	1.5	2.65	30	11.82	2.05
10676.0	0.00	100	4.1	1.6	2.65	35	11.77	2.05
10677.0	0.00	100	4.5	0.7	2.65	31	11.73	2.05
10678.0	0.00	100	4.7	0.6	2.65	31	11.69	2.05
10679.0	0.00	100	5.1	0.7	2.64	29	11.64	2.05
10680.0	0.00	100	5.1	1.0	2.64	28	11.59	2.05
10681.0	0.00	100	4.6	1.5	2.65	30	11.54	2.05
10682.0	0.00	100	2.7	1.5	2.65	37	11.49	2.05
10683.0	0.00	100	2.1	1.5	2.65	40	11.47	2.05
10684.0	0.00	100	2.8	0.3	2.65	38	11.45	2.05
10685.0	0.00	100	2.9	0.0	2.64	41	11.42	2.05
10686.0	0.00	100	3.3	3.0	2.65	40	11.39	2.05
10687.0	0.00	100	3.0	2.4	2.65	31	11.36	2.05

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
10688.0	0.00	100	2.9	0.0	2.67	20	11.33	2.05
10689.0	0.00	100	2.8	0.0	2.66	22	11.30	2.05
10690.0	0.00	100	3.2	0.0	2.66	22	11.27	2.05
10691.0	0.00	100	3.6	0.0	2.66	21	11.24	2.05
10692.0	0.00	100	2.7	0.8	2.65	29	11.20	2.05
10693.0	0.00	100	3.8	3.8	2.65	24	11.17	2.05
10694.0	0.00	100	2.9	2.9	2.65	27	11.14	2.05
10695.0	0.00	100	1.8	0.0	2.65	31	11.11	2.05
10696.0	0.00	100	2.6	2.6	2.65	29	11.09	2.05
10697.0	0.00	100	2.9	0.0	2.65	32	11.06	2.05
10698.0	0.00	100	3.8	0.0	2.65	30	11.03	2.05
10699.0	0.00	100	4.5	2.4	2.65	26	10.99	2.05
10700.0	0.00	100	2.6	0.5	2.66	28	10.95	2.05
10701.0	0.00	100	2.2	0.3	2.65	34	10.93	2.05
10702.0	0.00	100	3.6	3.6	2.65	31	10.90	2.05
10703.0	0.00	100	3.8	0.0	2.65	31	10.86	2.05
10704.0	0.00	100	2.9	1.1	2.65	36	10.83	2.05
10705.0	0.00	100	2.5	1.7	2.65	41	10.80	2.05
10706.0	0.00	100	2.6	2.1	2.65	42	10.77	2.05
10707.0	0.00	100	2.6	0.8	2.65	41	10.75	2.05
10708.0	0.00	100	2.6	2.6	2.65	39	10.72	2.05
10709.0	0.00	100	2.6	1.8	2.65	37	10.70	2.05
10710.0	0.00	100	2.2	2.0	2.66	40	10.67	2.05
10711.0	0.00	100	2.8	1.9	2.65	39	10.65	2.05
10712.0	0.00	100	2.9	2.0	2.65	39	10.62	2.05
10713.0	0.00	100	3.2	2.7	2.65	39	10.59	2.05
10714.0	0.00	100	3.0	3.0	2.65	42	10.56	2.05
10721.0	0.00	100	3.8	3.8	2.64	47	10.53	2.05
10722.0	0.00	100	3.4	3.0	2.65	44	10.49	2.05
10723.0	0.00	100	3.2	3.0	2.65	40	10.46	2.05
10724.0	0.00	100	2.1	2.1	2.65	43	10.43	2.05
10725.0	0.00	100	1.0	1.0	2.67	49	10.41	2.05
10726.0	0.00	100	2.0	1.8	2.68	42	10.40	2.05
10727.0	0.00	100	2.7	2.0	2.67	38	10.38	2.05
10728.0	0.00	100	1.8	1.8	2.65	47	10.35	2.05
10729.0	0.00	100	1.4	1.4	2.65	47	10.33	2.05
10730.0	0.00	100	0.9	0.9	2.67	44	10.32	2.05
10731.0	0.00	100	0.8	0.8	2.68	46	10.31	2.05
10732.0	0.00	100	1.3	0.5	2.68	42	10.30	2.05
10733.0	0.00	100	1.4	1.4	2.66	41	10.29	2.05
10734.0	0.00	100	1.9	1.5	2.65	40	10.27	2.05
10735.0	0.00	100	1.8	1.8	2.65	41	10.26	2.05
10736.0	0.00	100	1.5	1.5	2.66	40	10.24	2.05
10737.0	0.00	100	1.2	1.2	2.67	37	10.22	2.05
10738.0	0.00	100	0.9	0.9	2.68	30	10.21	2.05
10739.0	0.00	100	0.6	0.6	2.69	24	10.20	2.05
10740.0	0.00	100	0.7	0.0	2.69	26	10.20	2.05

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
10741.0	0.00	100	0.8	0.0	2.68	37	10.19	2.05
10743.0	0.00	100	2.3	2.3	2.65	42	10.18	2.05
10744.0	0.00	100	1.9	1.8	2.65	42	10.16	2.05
10745.0	0.00	100	2.1	2.1	2.65	44	10.14	2.05
10746.0	0.00	100	2.5	2.0	2.65	42	10.12	2.05
10747.0	0.00	100	2.5	1.7	2.65	42	10.09	2.05
10748.0	0.00	100	1.7	1.7	2.65	46	10.07	2.05
10749.0	0.00	100	1.3	1.3	2.66	48	10.05	2.05
10750.0	0.00	100	1.2	1.2	2.66	46	10.04	2.05
10751.0	0.00	100	2.3	1.7	2.65	41	10.02	2.05
10752.0	0.00	100	2.9	2.0	2.65	39	10.00	2.05
10753.0	0.00	100	2.0	2.0	2.65	44	9.97	2.05
10761.0	0.00	100	2.6	2.6	2.65	43	9.95	2.05
10762.0	0.00	100	3.2	3.0	2.65	42	9.92	2.05
10763.0	0.00	100	2.3	2.3	2.65	48	9.89	2.05
10764.0	0.00	100	1.9	1.9	2.65	49	9.88	2.05
10765.0	0.00	100	1.9	1.9	2.65	48	9.86	2.05
10766.0	0.00	100	1.8	1.8	2.65	47	9.84	2.05
10767.0	0.00	100	1.9	1.9	2.65	46	9.82	2.05
10768.0	0.00	100	1.7	1.7	2.65	45	9.80	2.05
10769.0	0.00	100	1.8	1.8	2.65	44	9.78	2.05
10770.0	0.00	100	2.5	2.5	2.65	43	9.76	2.05
10771.0	0.00	100	3.7	2.5	2.65	38	9.74	2.05
10772.0	0.00	100	3.8	2.3	2.65	37	9.70	2.05
10773.0	0.00	100	4.0	1.8	2.65	35	9.66	2.05
10774.0	0.00	100	3.9	1.5	2.65	34	9.62	2.05
10775.0	0.00	100	4.3	1.1	2.65	32	9.58	2.05
10776.0	0.00	100	3.1	1.4	2.65	38	9.54	2.05
10777.0	0.00	100	2.3	0.4	2.66	39	9.51	2.05
10778.0	0.00	100	2.1	1.0	2.65	39	9.49	2.05
10779.0	0.00	100	2.3	1.6	2.65	39	9.47	2.05
10780.0	0.00	100	2.3	1.6	2.65	40	9.44	2.05
10781.0	0.00	100	2.7	2.3	2.65	39	9.42	2.05
10782.0	0.00	100	1.7	1.7	2.65	47	9.39	2.05
10787.0	0.00	100	1.0	1.0	2.67	47	9.38	2.05
10788.0	0.00	100	1.2	1.2	2.66	42	9.37	2.05
10789.0	0.00	100	1.1	1.1	2.67	40	9.36	2.05
10790.0	0.00	100	1.1	1.1	2.67	43	9.34	2.05
10810.0	0.00	100	0.0	0.0	2.72	49	9.33	2.05
10811.0	0.00	100	0.2	0.1	2.70	34	9.33	2.05
10812.0	0.00	100	0.6	0.0	2.69	29	9.33	2.05
10813.0	0.00	100	1.2	0.0	2.67	32	9.32	2.05
10814.0	0.00	100	1.5	0.9	2.66	36	9.31	2.05
10815.0	0.00	100	1.2	1.1	2.67	38	9.30	2.05

Schlumberger

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10816.0	0.00	100	0.6	0.3	2.69	38	9.28	2.05
10817.0	0.00	100	0.6	0.6	2.69	38	9.28	2.05
10818.0	0.00	100	1.0	1.0	2.67	39	9.27	2.05
10819.0	0.00	100	0.5	0.3	2.69	39	9.26	2.05
10820.0	0.00	100	0.0	0.0	2.74	40	9.26	2.05
10821.0	0.00	100	0.0	0.0	2.74	41	9.26	2.05
10822.0	0.00	100	0.0	0.0	2.71	42	9.26	2.05
10823.0	0.00	100	0.5	0.5	2.69	45	9.26	2.05
10824.0	0.00	100	0.9	0.9	2.67	49	9.25	2.05
10835.0	0.00	100	0.1	0.1	2.70	40	9.25	2.05
10836.0	0.00	100	0.0	0.0	2.74	35	9.25	2.05
10837.0	0.00	100	0.0	0.0	2.75	38	9.25	2.05
10838.0	0.00	100	0.0	0.0	2.73	44	9.25	2.05
10839.0	0.00	100	0.2	0.2	2.70	46	9.25	2.05
10840.0	0.00	100	0.3	0.3	2.70	40	9.24	2.05
10841.0	0.00	100	0.9	0.9	2.68	34	9.24	2.05
10842.0	0.00	100	1.4	1.0	2.67	33	9.23	2.05
10843.0	0.00	100	0.7	0.1	2.69	36	9.22	2.05
10844.0	0.00	100	0.2	0.0	2.70	35	9.21	2.05
10845.0	0.00	100	0.3	0.0	2.70	31	9.21	2.05
10846.0	0.00	100	1.0	0.1	2.68	32	9.20	2.05
10847.0	0.00	100	0.8	0.0	2.68	40	9.19	2.05
10848.0	0.00	100	0.8	0.6	2.68	42	9.19	2.05
10849.0	0.00	100	0.5	0.0	2.69	42	9.18	2.05
10851.0	0.00	100	1.2	1.2	2.67	42	9.17	2.05
10852.0	0.00	100	1.9	1.7	2.65	35	9.16	2.05
10853.0	0.00	100	1.3	1.3	2.66	41	9.14	2.05
10854.0	0.00	100	0.6	0.6	2.69	43	9.13	2.05
10855.0	0.00	100	0.0	0.0	2.67	39	9.13	2.05
10856.0	0.00	100	0.0	0.0	2.66	39	9.13	2.05
10857.0	0.00	100	0.0	0.0	2.67	39	9.13	2.05
10858.0	0.00	100	0.0	0.0	2.68	44	9.13	2.05
10859.0	0.00	100	0.0	0.0	2.67	46	9.13	2.05
10896.0	0.00	100	0.0	0.0	2.65	48	9.13	2.05
10897.0	0.00	100	0.9	0.9	2.68	39	9.12	2.05
10898.0	0.00	100	0.6	0.6	2.69	39	9.11	2.05
10899.0	0.00	100	0.4	0.4	2.70	36	9.11	2.05
10900.0	0.00	100	0.0	0.0	2.71	36	9.10	2.05
10901.0	0.00	100	0.2	0.2	2.70	39	9.10	2.05
10902.0	0.00	100	0.2	0.2	2.70	47	9.10	2.05
10904.0	0.00	100	0.8	0.0	2.70	40	9.10	2.05
10905.0	0.00	100	0.3	0.3	2.70	35	9.09	2.05
10906.0	0.00	100	0.6	0.6	2.69	43	9.09	2.05
10907.0	0.00	100	1.3	1.3	2.66	45	9.08	2.05

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
10908.0	0.00	100	1.2	1.2	2.67	40	9.06	2.05
10909.0	0.00	100	1.2	0.4	2.67	38	9.05	2.05
10910.0	0.00	100	1.1	1.1	2.67	40	9.04	2.05
10911.0	0.00	100	1.0	1.0	2.67	49	9.03	2.05
10912.0	0.00	100	1.3	1.3	2.66	44	9.02	2.05
10913.0	0.00	100	1.7	1.4	2.65	33	9.01	2.05
10914.0	0.00	100	1.7	1.7	2.66	33	8.99	2.05
10915.0	0.00	100	0.9	0.9	2.68	39	8.97	2.05
10916.0	0.00	100	0.0	0.0	2.69	43	8.97	2.05
10917.0	0.00	100	0.0	0.0	2.68	48	8.97	2.05
10918.0	0.00	100	1.0	0.0	2.67	40	8.97	2.05
10919.0	0.00	100	3.1	0.0	2.65	33	8.95	2.05
10920.0	0.00	100	1.3	0.0	2.66	41	8.92	2.05
10927.0	0.00	100	0.0	0.0	2.72	45	8.92	2.05
10928.0	0.00	100	0.0	0.0	2.76	43	8.92	2.05
10952.0	0.00	100	0.8	0.5	2.68	43	8.91	2.05
10953.0	0.00	100	0.2	0.2	2.70	39	8.90	2.05
10954.0	0.00	100	0.7	0.7	2.69	36	8.90	2.05
10955.0	0.00	100	1.2	0.4	2.67	31	8.89	2.05
10956.0	0.00	100	1.5	0.4	2.67	27	8.88	2.05
10957.0	0.00	100	2.1	0.3	2.65	21	8.86	2.05
10958.0	0.00	100	1.9	0.0	2.66	19	8.84	2.05
10959.0	0.00	100	1.8	0.0	2.66	21	8.82	2.05
10960.0	0.00	100	2.6	0.1	2.65	21	8.81	2.05
10961.0	0.00	99	4.0	0.0	2.65	15	8.78	2.05
10962.0	0.00	100	3.9	0.0	2.65	17	8.74	2.05
10963.0	0.00	91	4.2	0.0	2.66	14	8.70	2.05
10964.0	0.00	66	5.2	0.0	2.66	11	8.65	2.04
10965.0	0.02	51	6.3	0.0	2.66	13	8.60	2.02
10966.0	0.00	59	4.3	0.6	2.64	29	8.54	1.99
10967.0	0.00	63	4.6	1.1	2.64	25	8.50	1.98
10968.0	0.08	46	8.0	0.0	2.67	9	8.44	1.95
10969.0	0.29	41	9.6	0.0	2.67	0	8.36	1.91
10970.0	0.39	41	10.1	0.6	2.64	2	8.26	1.85
10971.0	0.22	46	9.6	0.0	2.64	0	8.16	1.79
10972.0	0.12	50	8.8	0.0	2.65	0	8.07	1.74
10973.0	0.09	53	8.4	0.0	2.66	0	7.98	1.70
10974.0	0.07	55	8.1	0.0	2.66	2	7.90	1.66
10975.0	0.08	56	8.2	0.0	2.66	2	7.82	1.63
10976.0	0.09	54	8.4	0.0	2.65	0	7.73	1.59
10977.0	0.09	54	8.5	0.0	2.65	0	7.65	1.55
10978.0	0.11	52	8.7	0.0	2.66	0	7.56	1.51
10979.0	0.03	66	7.0	0.0	2.66	10	7.48	1.47
10980.0	0.00	91	4.4	1.7	2.65	30	7.42	1.46
10983.0	0.00	90	2.8	0.0	2.71	40	7.36	1.45

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
10984.0	0.00	86	3.8	0.3	2.65	28	7.33	1.45
10985.0	0.00	87	4.3	0.0	2.64	19	7.29	1.44
10986.0	0.00	100	2.7	0.3	2.64	27	7.25	1.44
10987.0	0.00	100	1.7	1.6	2.65	35	7.23	1.44
10988.0	0.00	100	0.7	0.7	2.68	41	7.21	1.44
10989.0	0.00	100	1.3	1.3	2.67	38	7.21	1.44
10990.0	0.00	100	2.0	1.2	2.66	29	7.19	1.44
10991.0	0.00	100	2.0	0.3	2.65	28	7.17	1.44
10992.0	0.00	100	2.8	0.3	2.65	28	7.15	1.44
10993.0	0.00	100	2.5	1.5	2.65	32	7.12	1.44
10994.0	0.00	100	3.2	1.2	2.65	25	7.09	1.44
10995.0	0.00	100	3.0	1.4	2.65	24	7.06	1.44
10996.0	0.00	100	1.6	1.6	2.65	37	7.03	1.44
10997.0	0.00	100	2.8	0.2	2.65	44	7.01	1.44
11012.0	0.00	100	4.6	0.7	2.64	34	6.95	1.44
11013.0	0.00	100	3.6	2.1	2.65	28	6.91	1.44
11014.0	0.00	100	4.1	1.3	2.65	26	6.88	1.44
11015.0	0.00	100	3.9	0.0	2.65	21	6.84	1.44
11016.0	0.00	100	4.0	0.0	2.65	14	6.80	1.44
11017.0	0.01	69	6.2	0.0	2.66	0	6.75	1.43
11018.0	0.04	57	7.3	0.0	2.64	0	6.69	1.41
11019.0	0.04	57	7.4	0.0	2.64	0	6.61	1.38
11020.0	0.03	61	6.9	0.0	2.65	0	6.54	1.35
11021.0	0.03	59	7.0	0.0	2.65	0	6.47	1.32
11022.0	0.03	53	6.8	0.0	2.65	0	6.40	1.29
11023.0	0.02	58	6.4	0.0	2.65	0	6.33	1.26
11024.0	0.01	56	6.0	0.0	2.66	0	6.27	1.23
11025.0	0.01	55	6.0	0.1	2.66	0	6.21	1.21
11026.0	0.01	54	6.1	5.0	2.66	1	6.15	1.18
11027.0	0.00	75	4.6	0.0	2.65	9	6.09	1.16
11028.0	0.00	92	3.9	0.0	2.65	12	6.05	1.15
11029.0	0.01	72	5.4	0.0	2.65	3	6.01	1.14
11030.0	0.01	58	6.0	0.0	2.66	1	5.95	1.13
11031.0	0.02	56	6.5	0.0	2.65	0	5.89	1.10
11032.0	0.02	49	6.8	0.0	2.65	0	5.82	1.07
11033.0	0.01	49	6.0	0.4	2.66	0	5.76	1.04
11034.0	0.05	40	7.2	0.5	2.65	0	5.70	1.01
11035.0	0.03	51	6.9	0.0	2.64	0	5.62	0.96
11036.0	0.04	26	5.9	0.0	2.67	0	5.56	0.93
11037.0	0.00	100	5.2	0.0	2.66	0	5.50	0.91
11038.0	0.01	46	6.0	0.0	2.66	0	5.45	0.89
11039.0	0.02	53	6.3	0.0	2.66	0	5.39	0.86
11040.0	0.01	67	5.4	0.4	2.64	6	5.33	0.84
11041.0	0.03	53	7.1	0.3	2.66	0	5.27	0.82
11042.0	0.00	100	2.3	0.2	2.65	24	5.22	0.80
11043.0	0.00	100	1.7	1.7	2.66	31	5.20	0.80
11044.0	0.00	100	4.1	3.5	2.64	35	5.18	0.80

Schlumberger

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11065.0	0.00	100	3.8	2.6	2.64	47	5.16	0.80
11066.0	0.00	100	2.3	2.3	2.65	36	5.12	0.80
11067.0	0.00	100	1.7	1.5	2.66	33	5.10	0.80
11068.0	0.00	100	2.1	1.9	2.65	26	5.08	0.80
11069.0	0.00	100	1.5	0.0	2.67	22	5.06	0.80
11070.0	0.00	100	1.2	0.0	2.68	21	5.05	0.80
11071.0	0.00	100	1.5	0.5	2.67	19	5.04	0.80
11072.0	0.00	100	1.7	0.0	2.66	18	5.02	0.80
11073.0	0.00	100	1.8	0.0	2.66	21	5.00	0.80
11074.0	0.00	100	2.6	0.2	2.65	25	4.98	0.80
11075.0	0.00	100	1.6	0.8	2.65	39	4.96	0.80
11076.0	0.00	100	1.1	1.1	2.67	36	4.94	0.80
11077.0	0.00	100	1.7	1.2	2.66	22	4.93	0.80
11078.0	0.00	100	2.3	0.0	2.67	13	4.91	0.80
11079.0	0.00	100	3.0	0.0	2.66	10	4.89	0.80
11080.0	0.00	73	4.6	0.0	2.67	1	4.85	0.79
11081.0	0.00	80	4.8	0.0	2.67	0	4.81	0.78
11082.0	0.01	59	5.3	0.0	2.66	0	4.76	0.77
11083.0	0.01	52	5.9	0.0	2.66	0	4.70	0.75
11084.0	0.01	48	6.0	1.3	2.66	0	4.64	0.72
11085.0	0.00	53	5.1	0.0	2.66	2	4.58	0.69
11086.0	0.00	71	4.5	0.0	2.66	3	4.53	0.67
11087.0	0.01	77	5.4	0.0	2.64	3	4.49	0.66
11088.0	0.00	100	3.9	3.9	2.64	13	4.44	0.65
11089.0	0.00	100	4.8	1.4	2.64	23	4.40	0.65
11090.0	0.00	100	3.5	3.5	2.65	43	4.34	0.65
11095.0	0.01	100	5.4	5.4	2.65	45	4.32	0.65
11104.0	0.00	100	1.9	1.8	2.67	33	4.29	0.65
11105.0	0.00	100	1.2	0.0	2.71	17	4.27	0.65
11106.0	0.00	100	0.0	0.0	2.72	15	4.26	0.65
11107.0	0.00	100	0.0	0.0	2.72	16	4.26	0.65
11108.0	0.00	100	0.0	0.0	2.75	27	4.26	0.65
11136.0	0.00	100	4.2	2.6	2.65	28	4.21	0.65
11137.0	0.00	100	1.6	0.7	2.66	30	4.18	0.65
11138.0	0.00	100	1.6	0.2	2.66	29	4.16	0.65
11139.0	0.00	100	1.7	0.9	2.66	31	4.15	0.65
11140.0	0.00	100	2.2	1.5	2.65	29	4.13	0.65
11141.0	0.00	100	2.1	1.0	2.65	29	4.11	0.65
11142.0	0.00	100	2.2	0.9	2.65	27	4.08	0.65
11143.0	0.00	100	3.1	1.2	2.65	22	4.06	0.65
11144.0	0.00	88	4.7	0.9	2.65	9	4.03	0.65
11145.0	0.01	78	5.2	0.9	2.65	4	3.98	0.65
11146.0	0.00	82	4.8	0.0	2.65	8	3.93	0.63
11147.0	0.00	100	2.5	0.6	2.65	23	3.88	0.63

Schlumberger

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11148.0	0.00	100	2.0	0.0	2.65	24	3.86	0.63
11149.0	0.00	100	3.4	0.0	2.65	16	3.84	0.63
11150.0	0.00	95	3.8	0.7	2.65	15	3.80	0.63
11151.0	0.00	100	4.0	0.0	2.65	16	3.76	0.63
11152.0	0.00	100	3.2	2.1	2.64	34	3.72	0.63
11161.0	0.07	76	8.1	0.0	2.65	29	3.69	0.63
11162.0	0.06	68	7.8	0.1	2.65	0	3.61	0.61
11163.0	0.04	57	7.3	0.0	2.65	0	3.54	0.58
11164.0	0.03	51	7.2	0.0	2.65	0	3.46	0.55
11165.0	0.04	52	7.3	0.0	2.65	0	3.39	0.51
11166.0	0.01	59	6.1	1.4	2.66	1	3.32	0.48
11167.0	0.00	73	4.8	0.0	2.67	2	3.27	0.46
11168.0	0.01	63	5.5	0.0	2.67	0	3.22	0.45
11169.0	0.01	56	6.0	0.0	2.66	0	3.16	0.42
11170.0	0.01	53	6.1	0.2	2.66	0	3.10	0.40
11171.0	0.01	52	5.8	0.0	2.66	0	3.04	0.37
11172.0	0.00	59	5.1	0.0	2.67	0	2.98	0.34
11173.0	0.00	73	4.0	0.0	2.68	3	2.93	0.33
11174.0	0.00	69	4.3	0.0	2.67	5	2.89	0.32
11175.0	0.00	68	4.8	0.3	2.66	4	2.85	0.30
11176.0	0.00	73	4.9	1.6	2.65	4	2.80	0.29
11177.0	0.00	92	3.9	0.7	2.65	11	2.75	0.27
11178.0	0.00	100	2.3	0.7	2.65	20	2.72	0.27
11179.0	0.00	100	1.5	0.5	2.67	19	2.70	0.27
11180.0	0.00	100	1.3	0.0	2.67	20	2.68	0.27
11181.0	0.00	100	0.9	0.0	2.68	22	2.67	0.27
11182.0	0.00	100	0.9	0.0	2.69	19	2.66	0.27
11183.0	0.00	100	1.4	0.2	2.67	17	2.65	0.27
11184.0	0.00	100	2.2	0.0	2.67	14	2.64	0.27
11185.0	0.00	76	3.8	0.0	2.67	5	2.61	0.27
11186.0	0.00	100	4.7	0.0	2.67	0	2.57	0.26
11187.0	0.01	44	5.2	0.0	2.66	0	2.52	0.26
11188.0	0.01	39	5.4	0.0	2.66	0	2.47	0.23
11189.0	0.02	35	5.8	0.0	2.67	0	2.41	0.19
11190.0	0.04	33	6.3	0.5	2.66	0	2.35	0.15
11191.0	0.00	43	4.6	0.2	2.65	9	2.29	0.11
11192.0	0.00	83	2.8	0.0	2.68	11	2.25	0.09
11193.0	0.00	95	3.4	3.4	2.64	17	2.22	0.09
11194.0	0.00	94	4.8	3.8	2.64	25	2.18	0.09
11203.0	0.03	95	7.0	4.8	2.64	46	2.13	0.09
11205.0	0.00	100	0.8	0.8	2.68	40	2.08	0.08
11206.0	0.00	100	1.4	1.0	2.66	38	2.07	0.08
11207.0	0.00	100	1.7	1.1	2.65	42	2.05	0.08
11208.0	0.00	100	1.8	1.8	2.65	42	2.03	0.08
11209.0	0.00	100	4.5	3.4	2.65	26	2.01	0.08

Schlumberger

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11215.0	0.00	100	4.9	3.5	2.65	25	1.92	0.08
11216.0	0.00	100	1.2	0.0	2.67	39	1.89	0.08
11219.0	0.00	100	1.0	1.0	2.67	48	1.87	0.08
11223.0	0.00	100	1.9	1.9	2.65	37	1.86	0.08
11224.0	0.00	100	1.4	1.3	2.67	24	1.84	0.08
11225.0	0.00	100	0.7	0.1	2.69	25	1.83	0.08
11226.0	0.00	100	0.5	0.0	2.69	25	1.83	0.08
11227.0	0.00	100	1.1	0.2	2.68	24	1.82	0.08
11228.0	0.00	100	1.2	1.1	2.68	22	1.81	0.08
11229.0	0.00	100	1.2	1.2	2.68	22	1.80	0.08
11230.0	0.00	100	0.7	0.7	2.69	37	1.78	0.08
11234.0	0.00	100	0.7	0.7	2.68	46	1.77	0.08
11235.0	0.00	100	0.4	0.4	2.69	49	1.77	0.08
11237.0	0.00	100	1.2	1.2	2.66	48	1.77	0.08
11238.0	0.00	100	2.8	1.7	2.64	42	1.75	0.08
11247.0	0.00	100	2.0	2.0	2.66	32	1.70	0.08
11248.0	0.00	100	1.6	1.6	2.67	20	1.68	0.08
11249.0	0.00	100	2.0	2.0	2.66	21	1.66	0.08
11250.0	0.00	100	1.5	1.2	2.66	40	1.65	0.08
11259.0	0.00	100	0.6	0.0	2.64	42	1.60	0.08
11267.0	0.04	82	7.4	4.1	2.67	47	1.59	0.08
11268.0	0.01	98	5.3	4.6	2.64	35	1.51	0.06
11269.0	0.00	100	0.7	0.7	2.68	42	1.47	0.06
11270.0	0.00	100	0.0	0.0	2.76	41	1.47	0.06
11271.0	0.00	100	0.0	0.0	2.73	38	1.47	0.06
11272.0	0.00	100	0.3	0.3	2.70	35	1.47	0.06
11273.0	0.00	100	0.1	0.0	2.71	40	1.47	0.06
11274.0	0.00	100	0.1	0.1	2.71	46	1.47	0.06
11275.0	0.00	100	0.8	0.8	2.68	40	1.46	0.06
11276.0	0.00	100	1.5	1.4	2.67	30	1.45	0.06
11277.0	0.00	100	1.4	1.4	2.67	24	1.44	0.06
11278.0	0.00	100	1.3	1.3	2.67	30	1.43	0.06
11279.0	0.00	100	3.0	2.1	2.65	49	1.41	0.06
11289.0	0.06	100	8.0	4.3	2.65	43	1.35	0.06
11291.0	0.00	100	0.4	0.4	2.69	48	1.31	0.06
11292.0	0.00	100	0.2	0.2	2.70	39	1.31	0.06
11293.0	0.00	100	0.8	0.8	2.68	34	1.30	0.06
11294.0	0.00	100	1.4	1.0	2.67	28	1.29	0.06

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
11295.0	0.00	100	1.7	1.2	2.66	23	1.28	0.06
11296.0	0.00	100	1.6	0.7	2.67	21	1.26	0.06
11297.0	0.00	100	1.7	0.5	2.66	22	1.25	0.06
11298.0	0.00	100	2.0	0.6	2.66	21	1.23	0.06
11299.0	0.00	100	2.2	0.2	2.66	17	1.21	0.06
11300.0	0.00	100	2.4	0.3	2.66	18	1.18	0.06
11301.0	0.00	100	2.0	0.1	2.66	20	1.16	0.06
11302.0	0.00	100	1.1	0.0	2.68	23	1.14	0.06
11303.0	0.00	100	1.4	0.0	2.67	26	1.13	0.06
11304.0	0.00	100	1.2	0.9	2.67	38	1.12	0.06
11322.0	0.00	100	2.4	0.0	2.67	29	1.10	0.06
11323.0	0.00	100	4.3	0.0	2.65	11	1.07	0.06
11324.0	0.03	61	7.1	0.7	2.65	0	1.02	0.05
11325.0	0.04	63	7.4	0.0	2.64	0	0.95	0.02
11326.0	0.00	100	5.1	0.3	2.65	7	0.88	0.00
11327.0	0.00	100	2.2	2.1	2.65	25	0.83	0.00
11328.0	0.00	100	3.2	3.2	2.65	33	0.81	0.00
11340.0	0.00	100	0.0	0.0	2.64	33	0.77	0.00
11341.0	0.00	100	1.3	1.3	2.66	42	0.76	0.00
11352.0	0.00	100	4.2	3.3	2.64	42	0.75	0.00
11353.0	0.00	100	1.1	1.1	2.67	43	0.72	0.00
11354.0	0.00	100	0.7	0.7	2.68	39	0.71	0.00
11355.0	0.00	100	0.8	0.8	2.67	48	0.70	0.00
11367.0	0.00	100	1.3	1.3	2.66	48	0.70	0.00
11368.0	0.00	100	1.1	1.1	2.66	48	0.68	0.00
11374.0	0.00	100	0.0	0.0	2.78	41	0.68	0.00
11375.0	0.00	100	0.0	0.0	2.77	40	0.68	0.00
11376.0	0.00	100	0.0	0.0	2.74	44	0.68	0.00
11380.0	0.00	100	1.0	1.0	2.67	48	0.67	0.00
11383.0	0.00	100	2.0	1.7	2.65	45	0.66	0.00
11384.0	0.00	100	3.2	2.0	2.65	35	0.64	0.00
11385.0	0.00	100	2.4	2.2	2.65	35	0.61	0.00
11386.0	0.00	100	2.4	1.2	2.65	30	0.58	0.00
11387.0	0.00	100	2.6	1.5	2.65	29	0.56	0.00
11388.0	0.00	100	2.8	1.5	2.65	29	0.53	0.00
11389.0	0.00	100	3.3	1.0	2.65	31	0.50	0.00
11390.0	0.00	100	1.9	1.6	2.65	44	0.47	0.00
11391.0	0.00	100	0.8	0.8	2.68	48	0.46	0.00
11392.0	0.00	100	0.8	0.8	2.68	35	0.45	0.00
11393.0	0.00	100	1.4	1.3	2.66	34	0.44	0.00
11394.0	0.00	100	1.2	1.2	2.67	40	0.43	0.00

Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
11422.0	0.00	100	0.5	0.5	2.69	42	0.42	0.00
11423.0	0.00	100	0.8	0.8	2.68	43	0.41	0.00
11424.0	0.00	100	1.2	1.2	2.66	44	0.40	0.00
11425.0	0.00	100	1.5	1.5	2.65	48	0.39	0.00
11432.0	0.00	100	2.3	2.3	2.65	47	0.38	0.00
11433.0	0.00	100	3.2	1.2	2.65	37	0.36	0.00
11434.0	0.00	100	4.6	0.7	2.65	26	0.32	0.00
11435.0	0.00	100	4.8	0.9	2.65	24	0.28	0.00
11436.0	0.00	100	5.1	1.3	2.65	24	0.23	0.00
11437.0	0.00	100	4.8	1.0	2.65	25	0.18	0.00
11438.0	0.00	100	4.1	1.4	2.65	29	0.13	0.00
11439.0	0.00	100	2.4	2.0	2.65	39	0.09	0.00
11440.0	0.00	100	1.7	1.7	2.65	47	0.07	0.00
11447.0	0.00	100	0.0	0.0	2.74	44	0.06	0.00
11476.0	0.00	100	2.2	2.2	2.65	44	0.05	0.00
11477.0	0.00	100	2.0	2.0	2.65	49	0.03	0.00
11500.0	0.00	100	3.8	0.0	2.64	0	0.02	0.00

Schlumberger

3500 - RATTY w/10% ϕ 50% H_2O

TOP 4000 6' CLEANER to 20% ϕ 40% H_2O

4160 6' w/10% ϕ 20% H_2O

10300 10' w/11% ϕ 50% H_2O CLEAN

DST 90' GCM (TT)

TABULAR LISTING

OF

S A R A B A N D

A SANDSTONE ANALYSIS

COMPANY	EXXON COMPANY,U.S.A.
WELL	WILKIN RIDGE UNIT NO.1
FIELD	WILDCAT
COUNTY	DUCHESNE
STATE	UTAH

DATE 30-NV-74

TAPE IDENT. L-4147 EXXON WILKIN RIDGE UNIT 1 DUCHESNE,UTAH HPT

Schlumberger

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A SANDSTONE ANALYSIS

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LS	LD	LN	LXO	LSN	LILM	LILD	LSP	LGR	LCAL
15	14	11	0	70	71	66	6	19	18

SP BASE LINE SHIFT

NONE

CWSP ARRAY	40.	65.	65.	75.	0.	0.	0.	0.
RW ARRAY	0.200	0.200	0.220	0.160	0.000	0.000	0.000	0.000
AT DEPTH	11500.	9400.	7300.	5130.	0.	0.	0.	0.
AT TEMP	0.	0.	0.	0.	0.	0.	0.	0.
TOP DEPTH	9400.	7300.	5130.	0.	0.	0.	0.	0.

ROG ARRAY	2.68	2.68	2.68	2.68	0.00	0.00	0.00	0.00
DTMA ARRAY	51.5	51.5	51.5	51.5	0.0	0.0	0.0	0.0
ZSNMA ARRAY	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOP DEPTH	9400.	7300.	5130.	0.	0.	0.	0.	0.

ISS =	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	0	2	0	1	0	0	1	0	0	2	0	0	0	0	0	0	1	0	0	0	0

INPUT PARAMETERS FROM 5130. TO 4490.

WMUD	XLIT	BITSZ	B[redacted]	BHTDEP	SUFT	RMF	RMFT	R[redacted]S	PHIMFS	DASI
9.2	0.50	7.88	192.	11500.	75.	2.31	58.	1.000	0.996	0.85

Schlumberger

SPCK	DSPCK	RODC	DELRGM	START	STOPLG	ZSPNL	BGN	ZSPDL	REC	RESH	CSS
0.	0.	2.84	0.20	11500.	4490.	0.020	1.00	0.000	6.00	1.00	0.2

WHY	PHILEV	BR SLIM		AK	PK	SK	STOPIN	PHIMAX	PHINCL	PHIDCL
.200	0.000	.10	0.30	62500.	6.0	2.0	0.	0.110	0.320	-0.010

PHINSO	RTPM	PUN	DAX	DALIM	DAGA	DASH	DTSD	DTSH	CP	PSSH
0.120	165.	.015	80.	46.	20.	108.	150.	150.	0.90	.200

EDIAM	PNLIM	PDLIM	RLIM	GRLIM	VARMC	CONST	ROP	VARLIM	CSF
0.00	1.00	1.00	1000.0	1000.0	0.07	0.333	0.31	0.20	0.10

SP STATISTICS OVER ENTIRE INTERVAL

RESISTIVITY STATISTICS OVER ENTIRE INTERVAL

SONIC STATISTICS OVER ENTIRE INTERVAL

GAMMARAY NOT USED IN CORRECTION OF DOUBTFUL POROSITY DATA
ANALYSIS BY QUASI MODEL
PERMEABILITY BY TIMUR EQUATION
SP COEFF. FROM STATISTICS
GR NOT USED IN SHALINESS DETERMINATION
SONIC COEFF. FROM STATISTICS
WASAMP ROUTINE USED

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4497.0	0.0	0.0	100		47	47.24	5.89
4498.0	0.0	0.0	100		41	47.24	5.89
4499.0	0.0	0.0	100		47	47.24	5.89
4513.0	0.0	0.0	100		47	47.24	5.89
4514.0	0.0	0.0	100		49	47.24	5.89
4515.0	0.0	0.4	100		49	47.24	5.89
4516.0	0.0	2.4	100		43	47.23	5.89
4517.0	0.0	3.7	100		42	47.20	5.89
4518.0	0.0	4.8	94		37	47.16	5.89
4519.0	0.0	5.7	85		32	47.11	5.89
4520.0	0.0	6.9	91		29	47.05	5.88
4521.0	0.0	7.4	99		27	46.98	5.88
4522.0	0.1	8.0	98		25	46.91	5.88
4523.0	0.1	8.6	99		24	46.82	5.87
4524.0	0.1	8.8	100		24	46.74	5.87
4525.0	0.1	8.5	100		23	46.65	5.87
4526.0	0.1	8.8	100		22	46.56	5.87
4527.0	0.1	8.5	100		24	46.48	5.87
4528.0	0.1	8.4	100		24	46.39	5.87
4529.0	0.1	8.2	100		22	46.31	5.87
4530.0	0.0	7.6	100		20	46.23	5.87
4531.0	0.1	7.9	100		20	46.15	5.87
4532.0	0.1	8.1	100		21	46.07	5.87
4533.0	0.1	8.3	100		20	45.99	5.87
4534.0	0.1	8.3	100		19	45.91	5.87
4535.0	0.2	9.5	100		18	45.82	5.87
4536.0	0.2	9.4	100		18	45.72	5.87
4537.0	0.2	9.2	100		18	45.63	5.87
4538.0	0.1	8.0	100		19	45.54	5.87
4539.0	0.0	7.5	100		21	45.46	5.87
4540.0	0.0	6.7	100		23	45.39	5.87
4541.0	0.0	5.9	100		26	45.33	5.87
4542.0	0.0	5.4	100		30	45.27	5.87
4543.0	0.0	4.1	100		33	45.22	5.87
4544.0	0.0	2.8	100		34	45.18	5.87
4545.0	0.0	1.1	100		41	45.15	5.87
4555.0	0.0	0.0	100		44	45.15	5.87
4556.0	0.0	0.0	100		42	45.15	5.87
4557.0	0.0	0.9	100		41	45.13	5.87
4558.0	0.0	0.0	100		49	45.13	5.87
4565.0	0.0	0.0	100		48	45.13	5.87
4566.0	0.0	0.0	100		49	45.13	5.87
4584.0	0.0	0.2	100		45	45.12	5.87

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4585.0	0.0	0.2	100		42	45.12	5.87
4586.0	0.0	0.7	100		39	45.12	5.87
4587.0	0.0	2.7	100		33	45.10	5.87
4588.0	0.0	0.0	100		44	45.09	5.87
4589.0	0.0	0.0	100		48	45.09	5.87
4594.0	0.0	0.0	100		49	45.09	5.87
4595.0	0.0	0.0	100		43	45.09	5.87
4596.0	0.0	0.0	100		38	45.09	5.87
4597.0	0.0	0.0	100		43	45.09	5.87
4608.0	0.0	0.0	100		48	45.09	5.87
4609.0	0.0	0.0	100		41	45.09	5.87
4610.0	0.0	0.0	100		47	45.09	5.87
4620.0	0.0	0.0	100		44	45.09	5.87
4621.0	0.0	0.0	100		43	45.09	5.87
4622.0	0.0	0.0	100		43	45.08	5.87
4623.0	0.0	0.0	100		46	45.08	5.87
4634.0	0.0	0.0	100		48	45.08	5.87
4635.0	0.0	0.0	100		48	45.08	5.87
4636.0	0.0	0.0	100		49	45.08	5.87
4637.0	0.0	0.0	100		49	45.08	5.87
4638.0	0.0	0.0	100		41	45.08	5.87
4639.0	0.0	0.0	100		42	45.08	5.87
4644.0	0.0	0.0	100		44	45.08	5.87
4645.0	0.0	0.3	100		43	45.08	5.87
4646.0	0.0	0.0	100		47	45.08	5.87
4648.0	0.0	0.0	100		50	45.08	5.87
4649.0	0.0	0.0	100		46	45.08	5.87
4650.0	0.0	0.0	100		43	45.08	5.87
4651.0	0.0	0.0	100		48	45.08	5.87
4694.0	0.4	7.7	47		27	45.08	5.87
4695.0	10	10.4	17	0.1	29	44.99	5.81
4696.0	9	10.5	21		30	44.88	5.73
4697.0	0.0	3.0	100		27	44.79	5.66
4698.0	0.0	0.0	100		36	44.78	5.66
4699.0	0.0	0.0	100		39	44.78	5.66
4701.0	0.0	0.0	100		46	44.78	5.66
4702.0	0.0	0.0	100		33	44.78	5.66
4703.0	0.0	0.0	100		38	44.78	5.66
4714.0	0.0	0.0	100		44	44.78	5.66

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4715.0	0.0	0.0	100		43	44.78	5.66
4716.0	0.0	0.0	100		42	44.78	5.66
4717.0	0.0	0.0	100		46	44.78	5.66
4733.0	0.0	0.0	100		47	44.78	5.66
4734.0	0.0	0.0	100		42	44.78	5.66
4735.0	0.0	0.0	100		50	44.78	5.66
4761.0	0.0	2.0	100		35	44.78	5.66
4762.0	0.0	0.0	100		43	44.77	5.66
4773.0	0.0	0.0	100		49	44.77	5.66
4774.0	0.0	0.0	100		43	44.77	5.66
4775.0	0.0	0.0	100		41	44.77	5.66
4776.0	0.0	0.0	100		45	44.77	5.66
4785.0	0.0	1.0	100		39	44.77	5.66
4786.0	0.0	4.1	98		25	44.74	5.66
4787.0	0.0	5.1	67		27	44.70	5.65
4788.0	0.0	0.0	100		40	44.65	5.64
4791.0	0.0	0.0	100		49	44.65	5.64
4801.0	0.0	0.0	100		43	44.65	5.64
4802.0	0.0	0.0	100		50	44.65	5.64
4834.0	0.0	0.0	100		45	44.65	5.64
4835.0	0.0	0.0	100		43	44.65	5.64
4836.0	0.0	0.0	100		45	44.65	5.64
4846.0	0.0	0.0	100		41	44.65	5.64
4847.0	0.0	0.0	100		45	44.65	5.64
4848.0	0.0	0.0	100		45	44.65	5.64
4849.0	0.0	0.0	100		44	44.65	5.64
4858.0	0.0	0.1	100		45	44.65	5.64
4859.0	0.0	1.5	100		37	44.65	5.64
4860.0	0.0	0.2	100		41	44.64	5.64
4861.0	0.0	0.2	100		44	44.64	5.64
4862.0	0.0	0.2	100		49	44.63	5.64
4878.0	0.0	0.0	100		47	44.63	5.64
4879.0	0.0	0.0	100		45	44.63	5.64
4880.0	0.0	0.0	100		44	44.63	5.64
4881.0	0.0	0.1	100		44	44.63	5.64
4882.0	0.0	0.1	100		46	44.63	5.64
4887.0	0.0	0.0	100		46	44.63	5.64

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4888.0	0.0	0.2	100		45	44.63	5.64
4889.0	0.0	2.0	100		37	44.63	5.64
4890.0	0.0	2.6	100		34	44.60	5.64
4891.0	0.0	0.2	100		44	44.58	5.64
4892.0	0.0	0.0	100		44	44.58	5.64
4893.0	0.0	0.0	100		47	44.58	5.64
4894.0	0.0	0.0	100		45	44.58	5.64
4895.0	0.0	0.0	100		41	44.58	5.64
4896.0	0.0	0.0	100		46	44.58	5.64
4920.0	0.0	0.0	100		45	44.58	5.64
4921.0	0.0	0.0	100		46	44.58	5.64
4949.0	0.0	0.1	100		49	44.58	5.64
4950.0	0.0	0.1	100		44	44.57	5.64
4951.0	0.0	0.2	100		49	44.57	5.64
4954.0	0.0	1.8	100		50	44.55	5.64
4955.0	0.0	1.9	100		48	44.53	5.64
4956.0	0.0	2.4	100		46	44.51	5.64
4957.0	0.0	2.4	100		44	44.49	5.64
4958.0	0.0	2.4	100		44	44.46	5.64
4959.0	0.0	2.4	100		45	44.44	5.64
4960.0	0.0	2.4	100		46	44.42	5.64
4961.0	0.0	2.0	100		46	44.39	5.64
4962.0	0.0	1.3	100		47	44.37	5.64
4963.0	0.0	0.9	100		46	44.36	5.64
4964.0	0.0	0.5	100		43	44.36	5.64
4965.0	0.0	0.2	100		41	44.35	5.64
4966.0	0.0	0.1	100		43	44.35	5.64
4975.0	0.0	0.1	100		50	44.34	5.64
4976.0	0.0	0.1	100		45	44.34	5.64
4977.0	0.0	0.1	100		45	44.34	5.64
4978.0	0.0	0.0	100		44	44.34	5.64
4985.0	0.0	0.0	100		46	44.34	5.64
4988.0	0.0	0.0	100		44	44.34	5.64
4994.0	0.0	0.0	100		48	44.34	5.64
4995.0	0.0	0.2	100		48	44.34	5.64
4996.0	0.0	1.0	100		41	44.34	5.64
4997.0	0.0	2.4	100		35	44.32	5.64
4998.0	0.0	0.0	100		41	44.30	5.64
4999.0	0.0	0.0	100		45	44.30	5.64
5000.0	0.0	0.0	100		50	44.30	5.64
5011.0	0.0	3.4	100		24	44.28	5.64

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5012.0	0.0	3.7	98		29	44.25	5.64
5013.0	0.0	0.0	100		50	44.23	5.64
5018.0	0.0	0.2	100		48	44.22	5.64
5019.0	0.0	4.2	79		30	44.20	5.64
5020.0	0.0	3.6	100		31	44.16	5.64
5021.0	0.0	0.2	100		44	44.13	5.64
5022.0	0.0	0.0	100		48	44.13	5.64
5042.0	0.0	1.7	100		33	44.13	5.64
5043.0	0.0	0.1	100		31	44.12	5.64
5044.0	0.0	0.0	100		42	44.12	5.64
5047.0	0.0	0.3	100		44	44.11	5.64
5048.0	0.0	0.1	100		45	44.11	5.64
5049.0	0.0	0.0	100		46	44.10	5.64
5050.0	0.0	0.0	100		46	44.10	5.64
5051.0	0.0	0.3	100		44	44.10	5.64
5052.0	0.0	0.1	100		45	44.10	5.64
5053.0	0.0	0.1	100		46	44.10	5.64
5054.0	0.0	0.0	100		46	44.10	5.64
5055.0	0.0	0.1	100		43	44.10	5.64
5056.0	0.0	1.2	100		40	44.09	5.64
5057.0	0.0	0.0	100		46	44.09	5.64
5058.0	0.0	0.3	100		50	44.08	5.64
5067.0	0.0	1.3	100		39	44.08	5.64
5068.0	0.0	0.1	100		31	44.06	5.64
5069.0	0.0	0.0	100		32	44.06	5.64
5070.0	0.0	0.0	100		37	44.06	5.64
5071.0	0.0	0.1	100		50	44.06	5.64
5078.0	0.0	0.0	100		43	44.06	5.64
5079.0	0.0	1.9	100		37	44.05	5.64
5080.0	0.0	0.0	100		41	44.04	5.64
5081.0	0.0	0.0	100		43	44.04	5.64
5082.0	0.0	0.0	100		47	44.04	5.64
5083.0	0.0	0.0	100		48	44.04	5.64
5084.0	0.0	0.0	100		45	44.04	5.64
5085.0	0.0	0.0	100		45	44.04	5.64
5086.0	0.0	0.0	100		49	44.04	5.64
5087.0	0.0	0.0	100		46	44.04	5.64
5111.0	0.0	0.0	100		49	44.04	5.64
5112.0	0.0	1.6	100		33	44.03	5.64
5113.0	0.0	0.0	100		41	44.02	5.64

ISS - 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
0 2 0 1 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0

INPUT PARAMETERS FROM 7300. TO 5130.

WMUD XLIT BITSZ BHT BHTDEP SUFT RMF RMFT ROMFS PHIMFS DASI

Schlumberger

SPCK	DSPCK	RODC	DELRGM	START	STOPLG	ZSPNL	BGN	ZSPDL	REC	RESH	CSS
0.	0.	2.84	0.20	11500.	4490.	0.020	1.00	0.000	20.00	1.00	0.2

WHY	PHILEV	BR	SLIM	AK	PK	SK	STOPIN	PHIMAX	PHINCL	PHIDCL
.200	0.000	.10	0.30	62500.	6.0	2.0	5130.	0.090	0.280	-0.030

PHINSO	RTPM	PUN	DAX	DALIM	DAGA	DASH	DTSD	DTSH	CP	PSSH
0.100	165.	.015	80.	46.	20.	108.	150.	150.	0.90	.200

EDIAM	PNLIM	PDLIM	RLIM	GRLIM	VARMC	CONST	ROP	VARLIM	CSF
0.00	1.00	1.00	1000.0	1000.0	0.07	0.333	0.31	0.20	0.10

SP STATISTICS OVER ENTIRE INTERVAL

RESISTIVITY STATISTICS OVER ENTIRE INTERVAL

GAMMA - RAY STATISTICS OVER ENTIRE INTERVAL

SONIC STATISTICS OVER ENTIRE INTERVAL

ANALYSIS BY QUASIP MODEL
PERMEABILITY BY TIMUR EQUATION
SP COEFF. FROM STATISTICS
GR COEFF. FROM STATISTICS
SONIC COEFF. FROM STATISTICS
WASAMP ROUTINE USED

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5135.0	0.0	0.5	100		35	44.02	5.64
5136.0	0.0	0.4	100		37	44.01	5.64
5137.0	0.0	0.0	100		50	44.01	5.64
5172.0	0.0	0.0	100		49	44.01	5.64
5173.0	0.0	0.1	100		47	44.01	5.64
5174.0	0.0	0.0	100		47	44.01	5.64
5175.0	0.0	0.0	100		45	44.01	5.64
5176.0	0.0	0.0	100		43	44.01	5.64
5177.0	0.0	0.0	100		48	44.01	5.64
5200.0	0.0	0.0	100		46	44.01	5.64
5201.0	0.0	0.0	100		45	44.01	5.64
5217.0	0.0	0.1	100		49	44.01	5.64
5218.0	0.0	0.2	100		43	44.00	5.64
5219.0	0.0	0.1	100		44	44.00	5.64
5220.0	0.0	0.1	100		46	44.00	5.64
5226.0	0.0	0.0	100		43	44.00	5.64
5227.0	0.0	0.4	100		36	44.00	5.64
5228.0	0.0	0.0	100		38	44.00	5.64
5229.0	0.0	0.0	100		44	44.00	5.64
5239.0	0.0	0.7	100		49	43.98	5.64
5240.0	0.0	0.8	100		46	43.98	5.64
5258.0	0.0	3.5	100		21	43.94	5.64
5259.0	0.0	5.1	100		14	43.90	5.64
5260.0	0.0	5.4	100		14	43.84	5.64
5261.0	0.0	5.8	100		13	43.79	5.64
5262.0	0.0	5.3	100		16	43.73	5.64
5263.0	0.0	5.0	100		19	43.68	5.64
5264.0	0.0	4.9	100		20	43.63	5.64
5265.0	0.0	4.1	100		22	43.58	5.64
5266.0	0.0	3.9	100		22	43.54	5.64
5267.0	0.0	4.5	100		21	43.50	5.64
5268.0	0.0	5.1	100		16	43.45	5.64
5269.0	0.0	5.9	100		14	43.40	5.64
5270.0	0.0	6.3	100		15	43.34	5.64
5271.0	0.0	6.1	100		16	43.28	5.64
5272.0	0.0	4.5	100		21	43.22	5.64
5273.0	0.0	1.3	100		43	43.18	5.64
5284.0	0.0	0.1	100		48	43.17	5.64
5307.0	0.0	0.0	100		50	43.17	5.64
5315.0	0.0	0.0	100		45	43.17	5.64

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5316.0	0.0	0.0	100		45	43.17	5.64
5330.0	0.0	0.2	100		48	43.17	5.64
5397.0	0.0	0.9	100		49	43.15	5.64
5401.0	0.0	0.7	100		46	43.13	5.64
5411.0	0.0	0.0	100		49	43.13	5.64
5415.0	0.0	0.5	100		50	43.12	5.64
5439.0	0.0	1.0	100		50	43.10	5.64
5454.0	0.0	1.8	100		44	43.08	5.64
5455.0	0.0	0.7	100		46	43.07	5.64
5456.0	0.0	2.8	100		41	43.06	5.64
5472.0	0.0	2.6	100		39	43.02	5.64
5484.0	0.0	0.3	100		37	43.00	5.64
5485.0	0.0	0.0	100		38	43.00	5.64
5545.0	0.0	0.2	100		45	42.97	5.64
5546.0	0.0	0.6	100		41	42.96	5.64
5547.0	0.0	0.4	100		41	42.96	5.64
5548.0	0.0	0.1	100		47	42.95	5.64
5564.0	0.0	0.4	100		45	42.93	5.64
5565.0	0.0	0.6	100		42	42.92	5.64
5566.0	0.0	0.8	100		42	42.92	5.64
5567.0	0.0	1.1	100		41	42.91	5.64
5568.0	0.0	0.7	100		46	42.90	5.64
5583.0	0.0	0.9	100		48	42.88	5.64
5584.0	0.0	1.3	100		39	42.87	5.64
5609.0	0.0	0.2	100		49	42.86	5.64
5610.0	0.0	0.5	100		46	42.85	5.64
5611.0	0.0	0.5	100		48	42.85	5.64
5615.0	0.0	1.0	100		50	42.83	5.64
5618.0	0.0	0.2	100		45	42.81	5.64
5619.0	0.0	0.2	100		42	42.81	5.64
5620.0	0.0	0.1	100		43	42.81	5.64
5621.0	0.0	0.3	100		43	42.80	5.64
5622.0	0.0	0.1	100		50	42.80	5.64

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5624.0	0.0	0.0	100		46	42.80	5.64
5625.0	0.0	0.2	100		37	42.80	5.64
5626.0	0.0	0.1	100		38	42.80	5.64
5627.0	0.0	0.1	100		40	42.80	5.64
5628.0	0.0	0.1	100		47	42.80	5.64
5630.0	0.0	0.6	100		49	42.79	5.64
5631.0	0.0	0.5	100		46	42.78	5.64
5632.0	0.0	0.4	100		48	42.78	5.64
5635.0	0.0	0.9	100		46	42.77	5.64
5636.0	0.0	0.2	100		42	42.76	5.64
5637.0	0.0	0.4	100		40	42.76	5.64
5638.0	0.0	0.1	100		42	42.76	5.64
5639.0	0.0	0.2	100		43	42.76	5.64
5640.0	0.0	0.3	100		45	42.75	5.64
5646.0	0.0	0.0	100		50	42.74	5.64
5647.0	0.0	0.0	100		49	42.74	5.64
5657.0	0.0	0.0	100		48	42.74	5.64
5658.0	0.0	0.0	100		49	42.74	5.64
5667.0	0.0	0.1	100		50	42.74	5.64
5668.0	0.0	0.2	100		45	42.74	5.64
5669.0	0.0	0.0	100		45	42.74	5.64
5670.0	0.0	0.0	100		45	42.74	5.64
5671.0	0.0	0.0	100		46	42.74	5.64
5672.0	0.0	0.0	100		50	42.74	5.64
5697.0	0.0	0.7	100		48	42.73	5.64
5698.0	0.0	0.4	100		47	42.72	5.64
5699.0	0.0	0.8	100		44	42.72	5.64
5700.0	0.0	0.6	100		48	42.71	5.64
5720.0	0.0	0.0	100		40	42.70	5.64
5721.0	0.0	0.3	100		34	42.70	5.64
5722.0	0.0	1.8	100		31	42.69	5.64
5723.0	0.0	0.5	100		42	42.68	5.64
5762.0	0.0	0.0	100		44	42.67	5.64
5763.0	0.0	0.0	100		47	42.67	5.64
5784.0	0.0	0.1	100		47	42.67	5.64
5799.0	0.0	0.3	100		49	42.66	5.64
5800.0	0.0	0.0	100		48	42.66	5.64

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5801.0	0.0	0.0	100		49	42.66	5.64
5802.0	0.0	0.1	100		46	42.66	5.64
5803.0	0.0	0.2	100		45	42.66	5.64
5804.0	0.0	0.2	100		48	42.65	5.64
5805.0	0.0	0.2	100		47	42.65	5.64
5806.0	0.0	0.1	100		45	42.65	5.64
5807.0	0.0	0.0	100		48	42.65	5.64
5810.0	0.0	0.1	100		45	42.65	5.64
5811.0	0.0	0.1	100		43	42.65	5.64
5812.0	0.0	0.0	100		49	42.64	5.64
5828.0	0.0	0.1	100		46	42.64	5.64
5829.0	0.0	0.1	100		41	42.64	5.64
5830.0	0.0	0.3	100		37	42.63	5.64
5831.0	0.0	0.3	100		38	42.63	5.64
5832.0	0.0	0.0	100		47	42.63	5.64
5841.0	0.0	0.0	100		49	42.62	5.64
5842.0	0.0	0.1	100		45	42.62	5.64
5843.0	0.0	0.3	100		46	42.62	5.64
5847.0	0.0	0.0	100		45	42.62	5.64
5848.0	0.0	0.0	100		42	42.62	5.64
5849.0	0.0	0.0	100		45	42.62	5.64
5850.0	0.0	0.2	100		43	42.62	5.64
5851.0	0.0	0.2	100		41	42.62	5.64
5852.0	0.0	0.2	100		37	42.61	5.64
5853.0	0.0	0.1	100		38	42.61	5.64
5854.0	0.0	0.0	100		39	42.61	5.64
5855.0	0.0	0.3	100		38	42.61	5.64
5856.0	0.0	0.2	100		35	42.61	5.64
5857.0	0.0	0.0	100		37	42.61	5.64
5858.0	0.0	0.0	100		43	42.61	5.64
5859.0	0.0	0.0	100		49	42.61	5.64
5861.0	0.0	0.0	100		50	42.61	5.64
5862.0	0.0	0.4	100		46	42.61	5.64
5863.0	0.0	0.9	100		41	42.60	5.64
5864.0	0.0	1.9	100		32	42.59	5.64
5865.0	0.0	2.5	100		26	42.57	5.64
5866.0	0.0	3.9	100		23	42.54	5.64
5867.0	0.0	4.2	100		22	42.50	5.64
5868.0	0.0	3.0	100		25	42.46	5.64
5869.0	0.0	2.7	100		27	42.43	5.64
5870.0	0.0	3.4	100		24	42.40	5.64
5871.0	0.0	3.5	100		24	42.37	5.64
5872.0	0.0	3.9	100		22	42.33	5.64

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5873.0	0.0	4.2	100		22	42.29	5.64
5874.0	0.0	3.9	100		23	42.25	5.64
5875.0	0.0	3.1	100		24	42.21	5.64
5876.0	0.0	2.2	100		29	42.18	5.64
5877.0	0.0	1.2	100		31	42.17	5.64
5878.0	0.0	3.2	100		24	42.15	5.64
5879.0	0.0	3.0	100		25	42.12	5.64
5880.0	0.0	2.3	100		29	42.09	5.64
5881.0	0.0	3.0	100		28	42.06	5.64
5882.0	0.0	2.8	100		30	42.03	5.64
5883.0	0.0	2.8	100		32	42.01	5.64
5884.0	0.0	2.8	100		32	41.98	5.64
5885.0	0.0	2.7	100		28	41.95	5.64
5886.0	0.0	2.8	100		31	41.92	5.64
5887.0	0.0	1.8	100		36	41.90	5.64
5888.0	0.0	0.4	100		49	41.88	5.64
5889.0	0.0	2.2	100		39	41.88	5.64
5890.0	0.0	3.6	100		23	41.85	5.64
5891.0	0.0	3.2	100		25	41.82	5.64
5892.0	0.0	3.0	100		28	41.79	5.64
5893.0	0.0	2.0	100		33	41.76	5.64
5894.0	0.0	0.9	100		41	41.74	5.64
5895.0	0.0	2.3	100		36	41.73	5.64
5896.0	0.0	2.8	100		27	41.70	5.64
5897.0	0.0	4.2	100		22	41.67	5.64
5898.0	0.0	5.2	100		20	41.63	5.64
5899.0	0.0	4.5	100		21	41.58	5.64
5900.0	0.0	4.3	100		22	41.53	5.64
5901.0	0.0	2.4	100		26	41.49	5.64
5902.0	0.0	0.9	100		33	41.48	5.64
5903.0	0.0	4.4	100		21	41.46	5.64
5904.0	0.3	8.0	59		14	41.41	5.63
5905.0	0.0	0.0	100		37	41.36	5.61
5906.0	0.0	0.0	100		48	41.36	5.61
5923.0	0.0	0.0	100		47	41.36	5.61
5924.0	0.0	0.0	100		45	41.36	5.61
5925.0	0.0	0.0	100		48	41.36	5.61
5926.0	0.0	0.0	100		50	41.36	5.61
5927.0	0.0	0.0	100		45	41.36	5.61
5928.0	0.0	0.1	100		41	41.36	5.61
5929.0	0.0	1.4	100		34	41.36	5.61
5930.0	0.0	2.0	100		32	41.34	5.61
5931.0	0.0	2.0	100		30	41.32	5.61
5932.0	0.0	2.3	100		28	41.30	5.61
5933.0	0.0	3.5	100		23	41.28	5.61
5934.0	0.0	3.8	100		21	41.24	5.61
5935.0	0.0	2.8	100		25	41.20	5.61

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5936.0	0.0	2.8	100		25	41.18	5.61
5937.0	0.0	3.5	100		22	41.15	5.61
5938.0	0.0	2.4	100		27	41.11	5.61
5939.0	0.0	0.5	100		35	41.09	5.61
5940.0	0.0	0.0	100		43	41.09	5.61
5941.0	0.0	0.0	100		45	41.09	5.61
5942.0	0.0	0.0	100		43	41.09	5.61
5943.0	0.0	0.0	100		42	41.09	5.61
5944.0	0.0	0.0	100		48	41.09	5.61
5946.0	0.0	0.2	100		49	41.09	5.61
5947.0	0.0	0.2	100		47	41.09	5.61
5948.0	0.0	0.3	100		44	41.09	5.61
5949.0	0.0	0.2	100		41	41.08	5.61
5950.0	0.0	0.1	100		41	41.08	5.61
5951.0	0.0	0.0	100		46	41.08	5.61
5959.0	0.0	0.0	100		48	41.08	5.61
5960.0	0.0	0.0	100		47	41.08	5.61
5961.0	0.0	0.1	100		48	41.08	5.61
5963.0	0.0	0.0	100		49	41.08	5.61
5964.0	0.0	0.1	100		42	41.08	5.61
5965.0	0.0	0.0	100		39	41.08	5.61
5966.0	0.0	0.0	100		40	41.08	5.61
5971.0	0.0	0.0	100		50	41.08	5.61
5987.0	0.0	0.0	100		50	41.08	5.61
5988.0	0.0	0.2	100		46	41.08	5.61
5989.0	0.0	0.1	100		49	41.07	5.61
5990.0	0.0	0.3	100		47	41.07	5.61
5999.0	0.0	0.0	100		50	41.07	5.61
6036.0	0.0	0.0	100		50	41.06	5.61
6038.0	0.0	0.0	100		49	41.06	5.61
6039.0	0.0	0.0	100		44	41.06	5.61
6040.0	0.0	0.2	100		39	41.06	5.61
6041.0	0.0	0.2	100		39	41.06	5.61
6042.0	0.0	0.2	100		41	41.06	5.61
6043.0	0.0	0.2	100		43	41.06	5.61
6044.0	0.0	0.2	100		40	41.05	5.61
6045.0	0.0	0.0	100		39	41.05	5.61
6046.0	0.0	0.0	100		41	41.05	5.61
6047.0	0.0	0.0	100		44	41.05	5.61
6048.0	0.0	0.0	100		46	41.05	5.61

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6049.0	0.0	0.0	100		48	41.05	5.61
6051.0	0.0	0.0	100		46	41.05	5.61
6052.0	0.0	0.0	100		46	41.05	5.61
6053.0	0.0	0.1	100		48	41.05	5.61
6054.0	0.0	0.0	100		49	41.05	5.61
6076.0	0.0	0.0	100		46	41.04	5.61
6077.0	0.0	0.0	100		46	41.04	5.61
6093.0	0.0	0.0	100		49	41.04	5.61
6094.0	0.0	0.1	100		47	41.04	5.61
6095.0	0.0	0.0	100		50	41.04	5.61
6107.0	0.0	0.7	100		45	41.03	5.61
6108.0	0.0	1.3	100		35	41.02	5.61
6109.0	0.0	0.5	100		37	41.01	5.61
6110.0	0.0	0.6	100		37	41.01	5.61
6111.0	0.0	0.7	100		38	41.00	5.61
6112.0	0.0	0.8	100		39	40.99	5.61
6113.0	0.0	0.8	100		37	40.99	5.61
6114.0	0.0	1.8	100		32	40.98	5.61
6115.0	0.0	2.7	100		29	40.96	5.61
6116.0	0.0	2.2	100		33	40.93	5.61
6117.0	0.0	2.3	100		33	40.91	5.61
6118.0	0.0	1.8	100		36	40.89	5.61
6119.0	0.0	1.3	100		41	40.87	5.61
6120.0	0.0	2.4	100		35	40.85	5.61
6121.0	0.0	2.9	100		26	40.83	5.61
6122.0	0.0	2.8	100		29	40.80	5.61
6123.0	0.0	0.7	100		40	40.77	5.61
6124.0	0.0	0.0	100		48	40.77	5.61
6126.0	0.0	0.4	100		46	40.77	5.61
6127.0	0.0	1.1	100		38	40.76	5.61
6128.0	0.0	1.3	100		36	40.75	5.61
6129.0	0.0	0.6	100		39	40.74	5.61
6130.0	0.0	0.1	100		41	40.73	5.61
6131.0	0.0	0.0	100		43	40.73	5.61
6132.0	0.0	0.0	100		42	40.73	5.61
6133.0	0.0	0.0	100		45	40.73	5.61
6134.0	0.0	0.0	100		45	40.73	5.61
6135.0	0.0	0.0	100		49	40.73	5.61
6156.0	0.0	0.0	100		49	40.73	5.61
6157.0	0.0	0.1	100		47	40.73	5.61
6158.0	0.0	0.1	100		44	40.73	5.61
6159.0	0.0	0.0	100		43	40.73	5.61

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6160.0	0.0	0.0	100		46	40.73	5.61
6169.0	0.0	0.1	100		45	40.73	5.61
6170.0	0.0	0.0	100		48	40.72	5.61
6183.0	0.0	0.1	100		50	40.72	5.61
6184.0	0.0	0.0	100		46	40.72	5.61
6185.0	0.0	0.0	100		48	40.72	5.61
6208.0	0.0	0.1	100		47	40.72	5.61
6209.0	0.0	0.1	100		46	40.72	5.61
6210.0	0.0	0.0	100		47	40.72	5.61
6211.0	0.0	0.1	100		47	40.71	5.61
6224.0	0.0	0.0	100		43	40.71	5.61
6225.0	0.0	0.0	100		40	40.71	5.61
6226.0	0.0	0.0	100		42	40.71	5.61
6227.0	0.0	0.0	100		45	40.71	5.61
6247.0	0.0	0.4	100		43	40.71	5.61
6248.0	0.0	0.3	100		43	40.71	5.61
6249.0	0.0	0.1	100		48	40.70	5.61
6251.0	0.0	0.0	100		48	40.70	5.61
6252.0	0.0	0.0	100		47	40.70	5.61
6253.0	0.0	0.1	100		48	40.70	5.61
6256.0	0.0	0.0	100		46	40.70	5.61
6257.0	0.0	0.2	100		41	40.70	5.61
6258.0	0.0	0.6	100		37	40.70	5.61
6259.0	0.0	2.6	100		26	40.69	5.61
6260.0	0.0	4.1	100		17	40.66	5.61
6261.0	0.0	4.6	100		17	40.62	5.61
6262.0	0.0	4.4	100		21	40.57	5.61
6263.0	0.0	4.6	100		20	40.53	5.61
6264.0	0.0	3.5	100		23	40.48	5.61
6265.0	0.0	3.0	100		25	40.45	5.61
6266.0	0.0	4.7	100		21	40.42	5.61
6267.0	0.0	5.2	100		18	40.37	5.61
6268.0	0.0	5.5	100		16	40.31	5.61
6269.0	0.0	5.6	97		18	40.26	5.61
6270.0	0.0	5.0	100		20	40.20	5.61
6271.0	0.0	3.1	100		27	40.16	5.61
6272.0	0.0	0.7	100		41	40.13	5.61
6275.0	0.0	0.1	100		48	40.12	5.61
6276.0	0.0	0.0	100		49	40.12	5.61
6280.0	0.0	0.1	100		50	40.12	5.61

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6304.0	0.0	0.0	100		44	40.12	5.61
6305.0	0.0	0.2	100		38	40.12	5.61
6306.0	0.0	0.0	100		40	40.12	5.61
6307.0	0.0	0.0	100		50	40.12	5.61
6319.0	0.0	0.3	100		45	40.12	5.61
6320.0	0.0	0.1	100		44	40.12	5.61
6321.0	0.0	0.0	100		46	40.11	5.61
6322.0	0.0	0.0	100		50	40.11	5.61
6338.0	0.0	0.0	100		46	40.11	5.61
6339.0	0.0	0.0	100		41	40.11	5.61
6352.0	0.0	0.0	100		47	40.11	5.61
6356.0	0.0	0.0	100		47	40.11	5.61
6370.0	0.0	0.0	100		49	40.11	5.61
6384.0	0.0	0.4	100		45	40.11	5.61
6385.0	0.0	0.2	100		41	40.11	5.61
6386.0	0.0	0.2	100		41	40.11	5.61
6387.0	0.0	0.0	100		47	40.10	5.61
6424.0	0.0	0.0	100		47	40.10	5.61
6425.0	0.0	0.1	100		42	40.10	5.61
6426.0	0.0	0.3	100		45	40.10	5.61
6427.0	0.0	0.2	100		49	40.10	5.61
6483.0	0.0	0.0	100		49	40.05	5.61
6484.0	0.0	0.1	100		43	40.05	5.61
6507.0	0.0	0.1	100		47	40.04	5.61
6508.0	0.0	0.0	100		48	40.04	5.61
6509.0	0.0	0.1	100		44	40.04	5.61
6510.0	0.0	0.6	100		39	40.04	5.61
6511.0	0.0	0.6	100		39	40.03	5.61
6512.0	0.0	0.4	100		42	40.03	5.61
6513.0	0.0	0.1	100		47	40.03	5.61
6520.0	0.0	2.2	100		39	40.00	5.61
6521.0	0.0	5.0	100		17	39.97	5.61
6522.0	0.0	5.5	100		16	39.91	5.61
6523.0	0.0	5.2	100		15	39.86	5.61
6524.0	0.0	5.1	100		16	39.81	5.61
6525.0	0.0	5.8	100		18	39.76	5.61
6526.0	0.0	5.3	100		19	39.70	5.61

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6527.0	0.0	6.1	100		15	39.64	5.61
6528.0	0.0	6.5	100		11	39.58	5.61
6529.0	0.0	6.4	100		11	39.52	5.61
6530.0	0.0	6.2	100		12	39.45	5.61
6531.0	0.0	6.5	100		12	39.39	5.61
6532.0	0.0	7.2	99		12	39.32	5.61
6533.0	0.0	7.5	97		12	39.25	5.61
6534.0	0.0	6.7	100		14	39.18	5.61
6535.0	0.0	6.0	100		18	39.12	5.61
6536.0	0.0	5.9	100		17	39.06	5.61
6537.0	0.0	6.1	100		15	39.00	5.61
6538.0	0.0	5.9	100		16	38.94	5.61
6539.0	0.0	5.8	100		18	38.88	5.61
6540.0	0.0	5.5	100		19	38.82	5.61
6541.0	0.0	5.3	100		19	38.76	5.61
6542.0	0.0	3.7	100		23	38.72	5.61
6543.0	0.0	2.7	100		27	38.68	5.61
6544.0	0.0	2.3	100		34	38.65	5.61
6545.0	0.0	0.3	100		43	38.64	5.61
6560.0	0.0	0.8	100		47	38.62	5.61
6561.0	0.0	1.2	100		37	38.61	5.61
6562.0	0.0	0.4	100		46	38.61	5.61
6563.0	0.0	0.8	100		46	38.60	5.61
6564.0	0.0	0.8	100		45	38.59	5.61
6565.0	0.0	1.3	100		46	38.58	5.61
6566.0	0.0	0.8	100		46	38.57	5.61
6567.0	0.0	2.6	100		30	38.56	5.61
6568.0	0.0	3.0	100		27	38.53	5.61
6569.0	0.0	2.9	100		26	38.50	5.61
6570.0	0.0	0.8	100		36	38.47	5.61
6571.0	0.0	0.0	100		46	38.47	5.61
6572.0	0.0	0.0	100		50	38.47	5.61
6612.0	0.0	0.0	100		48	38.44	5.61
6613.0	0.0	0.0	100		44	38.44	5.61
6614.0	0.0	0.1	100		44	38.44	5.61
6615.0	0.0	0.0	100		49	38.44	5.61
6624.0	0.0	0.6	100		48	38.44	5.61
6625.0	0.0	0.5	100		46	38.43	5.61
6626.0	0.0	0.0	100		47	38.43	5.61
6627.0	0.0	0.0	100		43	38.43	5.61
6628.0	0.0	0.0	100		42	38.43	5.61
6629.0	0.0	0.0	100		41	38.42	5.61
6630.0	0.0	0.1	100		43	38.42	5.61
6631.0	0.0	0.4	100		45	38.42	5.61
6634.0	0.0	0.1	100		47	38.42	5.61

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6635.0	0.0	0.0	100		43	38.41	5.61
6636.0	0.0	0.0	100		46	38.41	5.61
6644.0	0.0	0.1	100		49	38.41	5.61
6645.0	0.0	0.1	100		49	38.40	5.61
6646.0	0.0	0.1	100		45	38.40	5.61
6649.0	0.0	0.2	100		48	38.40	5.61
6650.0	0.0	1.9	100		35	38.40	5.61
6651.0	0.0	0.8	100		41	38.38	5.61
6676.0	0.0	0.1	100		49	38.37	5.61
6681.0	0.0	2.4	100		46	38.36	5.61
6682.0	0.0	2.2	100		37	38.34	5.61
6683.0	0.0	2.4	100		29	38.32	5.61
6684.0	0.0	5.5	100		17	38.29	5.61
6685.0	0.0	6.2	100		14	38.23	5.61
6686.0	0.0	6.1	100		15	38.17	5.61
6687.0	0.0	5.7	100		16	38.11	5.61
6688.0	0.0	5.5	100		17	38.05	5.61
6689.0	0.0	6.7	100		12	38.00	5.61
6690.0	0.1	8.7	95		9	37.92	5.61
6691.0	0.0	7.7	97		10	37.84	5.61
6692.0	0.0	7.1	96		11	37.76	5.60
6693.0	0.0	6.2	100		15	37.69	5.60
6694.0	0.0	5.1	100		19	37.63	5.60
6695.0	0.0	3.5	100		26	37.58	5.60
6696.0	0.0	1.2	100		40	37.55	5.60
6697.0	0.0	1.5	100		48	37.54	5.60
6698.0	0.0	5.5	100		33	37.52	5.60
6699.0	0.0	5.7	100		19	37.46	5.60
6700.0	0.0	3.5	100		24	37.41	5.60
6701.0	0.0	3.9	100		23	37.38	5.60
6702.0	0.0	2.4	100		31	37.34	5.60
6703.0	0.0	0.0	100		48	37.33	5.60
6728.0	0.0	0.1	100		50	37.32	5.60
6757.0	0.0	1.1	100		47	37.31	5.60
6758.0	0.0	0.2	100		45	37.30	5.60
6774.0	0.0	0.1	100		47	37.30	5.60
6775.0	0.0	0.2	100		49	37.30	5.60
6780.0	0.0	0.1	100		48	37.29	5.60
6784.0	0.0	0.0	100		50	37.29	5.60

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6788.0	0.0	0.0	100		49	37.29	5.60
6789.0	0.0	0.0	100		47	37.29	5.60
6790.0	0.0	0.1	100		46	37.29	5.60
6791.0	0.0	0.6	100		42	37.28	5.60
6792.0	0.0	0.5	100		43	37.28	5.60
6793.0	0.0	0.2	100		48	37.27	5.60
6798.0	0.0	0.0	100		49	37.27	5.60
6799.0	0.0	0.0	100		49	37.27	5.60
6812.0	0.0	0.8	100		44	37.24	5.60
6813.0	0.0	0.2	100		45	37.23	5.60
6817.0	0.0	0.0	100		47	37.23	5.60
6818.0	0.0	0.1	100		40	37.23	5.60
6819.0	0.0	0.3	100		45	37.23	5.60
6822.0	0.0	2.3	100		35	37.21	5.60
6823.0	0.0	3.2	100		24	37.18	5.60
6824.0	0.0	0.3	100		42	37.15	5.60
6836.0	0.0	0.3	100		50	37.14	5.60
6840.0	0.0	0.2	100		43	37.14	5.60
6841.0	0.0	0.8	100		39	37.13	5.60
6848.0	0.0	0.4	100		48	37.12	5.60
6875.0	0.0	2.0	100		39	37.11	5.60
6876.0	0.0	2.4	100		26	37.09	5.60
6877.0	0.0	0.6	100		33	37.07	5.60
6878.0	0.0	0.2	100		49	37.06	5.60
6895.0	0.0	0.1	100		46	37.05	5.60
6905.0	0.0	0.7	100		40	37.04	5.60
6906.0	0.0	0.5	100		40	37.03	5.60
6907.0	0.0	0.4	100		41	37.03	5.60
6908.0	0.0	0.6	100		42	37.02	5.60
6912.0	0.0	0.2	100		48	37.01	5.60
6913.0	0.0	0.2	100		40	37.01	5.60
6914.0	0.0	0.8	100		38	37.01	5.60
6915.0	0.0	0.2	100		48	37.00	5.60
6930.0	0.0	0.7	100		48	36.99	5.60
6938.0	0.0	0.3	100		45	36.98	5.60

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6939.0	0.0	0.2	100		37	36.97	5.60
6940.0	0.0	0.1	100		40	36.97	5.60
6941.0	0.0	0.1	100		43	36.97	5.60
6942.0	0.0	0.0	100		49	36.97	5.60
6946.0	0.0	2.0	100		47	36.95	5.60
6947.0	0.0	3.7	100		45	36.92	5.60
6948.0	0.0	8.0	100		33	36.87	5.60
6949.0	0.1	9.6	98		48	36.79	5.60
6961.0	0.0	0.1	100		45	36.71	5.60
6968.0	0.0	0.0	100		50	36.71	5.60
6969.0	0.0	0.1	100		48	36.71	5.60
6970.0	0.0	0.3	100		46	36.71	5.60
6995.0	0.0	0.6	100		48	36.69	5.60
6996.0	0.0	0.6	100		48	36.69	5.60
6997.0	0.0	0.3	100		46	36.68	5.60
6998.0	0.0	1.7	100		33	36.68	5.60
6999.0	0.0	0.3	100		36	36.66	5.60
7000.0	0.0	0.0	100		42	36.66	5.60
7020.0	0.0	0.0	100		48	36.66	5.60
7021.0	0.0	0.6	100		46	36.66	5.60
7022.0	0.0	0.2	100		48	36.65	5.60
7023.0	0.0	0.2	100		49	36.65	5.60
7025.0	0.0	0.1	100		49	36.65	5.60
7026.0	0.0	0.3	100		41	36.65	5.60
7027.0	0.0	0.9	100		37	36.64	5.60
7044.0	0.0	2.3	100		37	36.63	5.60
7045.0	0.0	2.9	100		21	36.60	5.60
7046.0	0.0	3.0	100		19	36.57	5.60
7047.0	0.0	3.5	100		23	36.53	5.60
7048.0	0.0	0.3	100		41	36.51	5.60
7055.0	0.0	1.2	100		37	36.50	5.60
7056.0	0.0	0.3	100		46	36.49	5.60
7064.0	0.0	0.0	100		47	36.48	5.60
7065.0	0.0	0.0	100		44	36.48	5.60
7066.0	0.0	0.2	100		47	36.48	5.60
7081.0	0.0	0.3	100		42	36.48	5.60
7082.0	0.0	1.1	100		37	36.47	5.60
7083.0	0.0	1.2	100		45	36.46	5.60

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7084.0	0.0	1.4	100		45	36.45	5.60
7090.0	0.0	2.5	100		44	36.43	5.60
7091.0	0.0	2.2	100		33	36.40	5.60
7092.0	0.0	1.4	100		37	36.38	5.60
7097.0	0.0	1.3	100		39	36.36	5.60
7098.0	0.0	0.2	100		49	36.35	5.60
7099.0	0.0	0.0	100		49	36.35	5.60
7100.0	0.0	0.2	100		47	36.35	5.60
7106.0	0.0	0.3	100		48	36.34	5.60
7107.0	0.0	0.1	100		44	36.34	5.60
7108.0	0.0	0.0	100		45	36.34	5.60
7110.0	0.0	0.0	100		49	36.34	5.60
7111.0	0.0	0.0	100		50	36.34	5.60
7119.0	0.0	0.2	100		43	36.34	5.60
7120.0	0.0	0.1	100		42	36.33	5.60
7125.0	0.0	0.3	100		49	36.33	5.60
7127.0	0.0	0.6	100		48	36.32	5.60
7128.0	0.0	3.5	100		23	36.31	5.60
7129.0	0.0	4.1	100		21	36.28	5.60
7130.0	0.0	0.0	100		44	36.25	5.60
7137.0	0.0	0.1	100		49	36.25	5.60
7138.0	0.0	0.3	100		46	36.25	5.60
7144.0	0.0	0.1	100		45	36.25	5.60
7145.0	0.0	0.1	100		48	36.25	5.60
7159.0	0.0	0.0	100		48	36.24	5.60
7160.0	0.0	0.0	100		49	36.24	5.60
7163.0	0.0	0.0	100		50	36.24	5.60
7164.0	0.0	0.1	100		40	36.24	5.60
7165.0	0.0	0.0	100		38	36.24	5.60
7166.0	0.0	0.2	100		40	36.24	5.60
7167.0	0.0	0.1	100		47	36.24	5.60
7170.0	0.0	0.3	100		47	36.23	5.60
7171.0	0.0	0.0	100		47	36.23	5.60
7178.0	0.0	0.0	100		49	36.23	5.60
7179.0	0.0	0.0	100		48	36.23	5.60

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7193.0	0.0	0.1	100		50	36.23	5.60
7194.0	0.0	0.3	100		48	36.23	5.60
7195.0	0.0	0.1	100		48	36.23	5.60
7196.0	0.0	0.1	100		43	36.23	5.60
7197.0	0.0	0.4	100		38	36.23	5.60
7198.0	0.0	0.5	100		38	36.22	5.60
7199.0	0.0	1.0	100		34	36.21	5.60
7200.0	0.0	0.9	100		35	36.21	5.60
7201.0	0.0	0.3	100		37	36.20	5.60
7202.0	0.0	0.0	100		47	36.20	5.60
7205.0	0.0	2.5	100		32	36.19	5.60
7206.0	0.0	3.0	100		25	36.16	5.60
7207.0	0.0	2.6	100		25	36.13	5.60
7208.0	0.0	2.1	100		27	36.10	5.60
7218.0	0.0	0.0	100		49	36.09	5.60
7219.0	0.0	0.2	100		48	36.09	5.60
7220.0	0.0	0.0	100		48	36.09	5.60
7221.0	0.0	0.1	100		47	36.09	5.60
7231.0	0.0	0.0	100		49	36.08	5.60
7247.0	0.0	0.0	100		50	36.08	5.60
7250.0	0.0	0.2	100		43	36.08	5.60
7251.0	0.0	0.0	100		45	36.08	5.60
7254.0	0.0	0.2	100		48	36.08	5.60
7255.0	0.0	0.2	100		47	36.07	5.60
7256.0	0.0	0.1	100		49	36.07	5.60
7257.0	0.0	0.0	100		48	36.07	5.60
7258.0	0.0	0.0	100		47	36.07	5.60
7259.0	0.0	0.0	100		43	36.07	5.60
7260.0	0.0	0.0	100		44	36.07	5.60
7261.0	0.0	0.1	100		48	36.07	5.60
7262.0	0.0	1.0	100		46	36.07	5.60
7263.0	0.0	2.2	100		31	36.06	5.60
7264.0	0.0	3.6	100		23	36.03	5.60
7265.0	0.0	0.5	100		36	36.00	5.60
7266.0	0.0	0.0	100		45	36.00	5.60
7267.0	0.0	1.1	100		35	36.00	5.60
7268.0	0.0	0.5	100		33	35.98	5.60
7269.0	0.0	0.1	100		35	35.98	5.60
7270.0	0.0	0.3	100		34	35.98	5.60
7271.0	0.0	2.8	100		20	35.97	5.60
7272.0	0.0	4.4	100		17	35.93	5.60

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7273.0	0.0	4.8	100		20	35.89	5.60
7274.0	0.0	2.8	100		31	35.85	5.60
7277.0	0.0	2.3	100		37	35.81	5.60
7278.0	0.0	3.2	100		24	35.78	5.60
7279.0	0.0	5.1	100		19	35.74	5.60
7280.0	0.0	5.2	100		20	35.69	5.60
7281.0	0.0	5.0	100		20	35.64	5.60
7282.0	0.0	5.6	100		18	35.59	5.60
7283.0	0.0	4.9	100		20	35.54	5.60
7284.0	0.0	3.5	100		24	35.49	5.60
7285.0	0.0	5.1	100		20	35.45	5.60
7286.0	0.0	5.3	100		17	35.40	5.60
7287.0	0.0	5.5	100		17	35.35	5.60
7288.0	0.0	4.4	100		21	35.29	5.60
7289.0	0.0	3.4	100		24	35.25	5.60
7290.0	0.0	3.0	100		25	35.22	5.60
7291.0	0.0	2.5	100		30	35.19	5.60
7292.0	0.0	2.4	100		27	35.16	5.60
7293.0	0.0	3.1	100		25	35.14	5.60
7294.0	0.0	2.3	100		27	35.11	5.60
7295.0	0.0	2.3	100		29	35.08	5.60
7296.0	0.0	1.4	100		34	35.06	5.60
7297.0	0.0	0.0	100		46	35.06	5.60

ISS - 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
0 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0

INPUT PARAMETERS FROM 9400. TO 7300.

WMUD	XLIT	BITSZ	BHT	BHTDEP	SUFT	RMF	RMFT	RUMFS	PHIMFS	DASIL
9.2	0.50	7.88	192.	11500.	75.	2.31	58.	1.000	0.996	0.850

SPCK	DSPCK	RODC	DELRGM	START	STOPLG	ZSPNL	BGN	ZSPDL	REC	RESH	CSS
0.	0.	2.84	0.20	11500.	4490.	0.020	1.00	0.000	20.00	1.00	0.2

WHY	PHILEV	BR	SLIM	AK	PK	SK	STOPIN	PHIMAX	PHINCL	PHIDCL
.200	0.000	.10	0.30	62500.	6.0	2.0	7300.	0.080	0.250	-0.030

PHINSO	RTPM	PUN	DAX	DALIM	DAGA	DASH	DTSD	DTSH	CP	PSSH
0.090	165.	.015	70.	34.	20.	93.	150.	150.	0.90	.200

EDIAM	PNLIM	PDLIM	RLIM	GRLIM	VARMC	CONST	ROP	VARLIM	CSF
0.00	1.00	1.00	1000.0	1000.0	0.07	0.333	0.31	0.20	0.10

SP STATISTICS OVER ENTIRE INTERVAL

RESISTIVITY STATISTICS OVER ENTIRE INTERVAL

GAMMA - RAY STATISTICS OVER ENTIRE INTERVAL

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SONIC STATISTICS OVER ENTIRE INTERVAL

GAMMARAY NOT USED IN CORRECTION OF DOUBTFUL POROSITY DATA
ANALYSIS BY QUASIP MODEL
PERMEABILITY BY TIMUR EQUATION
SP COEFF. FROM STATISTICS
GR COEFF. FROM STATISTICS
SONIC COEFF. FROM STATISTICS
WASAMP ROUTINE USED

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7313.0	0.0	0.0	100		42	35.05	5.60
7314.0	0.0	0.0	100		42	35.05	5.60
7315.0	0.0	0.0	100		44	35.05	5.60
7316.0	0.0	0.1	100		43	35.05	5.60
7317.0	0.0	0.0	100		47	35.05	5.60
7323.0	0.0	0.0	100		50	35.05	5.60
7349.0	0.0	0.0	100		48	35.05	5.60
7358.0	0.0	0.0	100		50	35.05	5.60
7359.0	0.0	0.0	100		44	35.05	5.60
7360.0	0.0	2.2	100		27	35.05	5.60
7361.0	0.0	0.1	100		42	35.03	5.60
7367.0	0.0	0.0	100		50	35.03	5.60
7373.0	0.0	0.0	100		48	35.03	5.60
7374.0	0.0	0.0	100		44	35.03	5.60
7375.0	0.0	0.0	100		46	35.03	5.60
7396.0	0.0	0.0	100		50	35.03	5.60
7420.0	0.0	0.0	100		45	35.03	5.60
7429.0	0.0	6.1	100		13	35.02	5.60
7430.0	0.0	5.7	100		6	34.95	5.60
7431.0	0.0	3.4	100		14	34.91	5.60
7432.0	0.0	2.2	100		26	34.87	5.60
7433.0	0.0	0.0	100		37	34.86	5.60
7434.0	0.0	0.2	100		35	34.86	5.60
7435.0	0.0	0.8	100		32	34.86	5.60
7436.0	0.0	0.2	100		37	34.85	5.60
7437.0	0.0	0.0	100		49	34.85	5.60
7454.0	0.0	0.0	100		50	34.85	5.60
7465.0	0.0	0.0	100		49	34.85	5.60
7503.0	0.0	0.0	100		46	34.85	5.60
7504.0	0.0	0.0	100		37	34.85	5.60
7505.0	0.0	0.0	100		37	34.85	5.60
7506.0	0.0	0.0	100		43	34.85	5.60
7507.0	0.0	0.0	100		45	34.85	5.60
7508.0	0.0	0.0	100		44	34.85	5.60
7509.0	0.0	0.5	100		33	34.85	5.60
7510.0	0.0	1.4	100		23	34.84	5.60
7511.0	0.0	0.1	100		36	34.82	5.60

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7516.0	0.0	0.0	100		46	34.82	5.60
7517.0	0.0	2.3	100		21	34.82	5.60
7518.0	0.0	1.3	100		20	34.80	5.60
7519.0	0.0	2.3	100		19	34.78	5.60
7520.0	0.0	2.7	100		25	34.75	5.60
7525.0	0.0	1.1	100		31	34.74	5.60
7526.0	0.0	0.0	100		42	34.73	5.60
7531.0	0.0	0.1	100		44	34.73	5.60
7532.0	0.0	0.0	100		45	34.73	5.60
7558.0	0.0	0.4	100		36	34.72	5.60
7559.0	0.0	2.4	100		16	34.71	5.60
7560.0	0.0	2.6	98		15	34.68	5.60
7561.0	0.0	3.6	82		17	34.66	5.60
7562.0	0.1	8.2	74		8	34.61	5.58
7563.0	0.0	0.0	100		36	34.55	5.57
7564.0	0.0	0.0	100		50	34.55	5.57
7568.0	0.0	0.0	100		44	34.55	5.57
7569.0	0.0	0.1	100		40	34.55	5.57
7570.0	0.0	0.1	100		41	34.55	5.57
7571.0	0.0	0.0	100		43	34.54	5.57
7581.0	0.0	0.0	100		49	34.54	5.57
7596.0	0.0	0.0	100		47	34.54	5.57
7597.0	0.0	0.0	100		45	34.54	5.57
7604.0	0.0	0.0	100		41	34.54	5.57
7605.0	0.0	2.5	100		25	34.54	5.57
7606.0	0.0	0.1	100		38	34.53	5.57
7607.0	0.0	0.0	100		49	34.53	5.57
7608.0	0.0	0.0	100		47	34.53	5.57
7609.0	0.0	0.8	100		32	34.53	5.57
7610.0	0.0	0.9	100		31	34.52	5.57
7611.0	0.0	0.0	100		44	34.51	5.57
7623.0	0.0	0.0	100		41	34.51	5.57
7624.0	0.0	0.0	100		47	34.51	5.57
7626.0	0.0	0.0	100		48	34.51	5.57
7631.0	0.0	0.0	100		39	34.51	5.57
7632.0	0.0	1.6	100		23	34.49	5.57
7633.0	0.0	0.6	100		31	34.48	5.57

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7634.0	0.0	0.0	100		42	34.47	5.57
7650.0	0.0	0.0	100		48	34.47	5.57
7654.0	0.0	0.0	100		50	34.47	5.57
7655.0	0.0	0.3	100		36	34.47	5.57
7656.0	0.0	0.8	100		32	34.47	5.57
7657.0	0.0	0.5	100		33	34.46	5.57
7658.0	0.0	0.0	100		39	34.46	5.57
7659.0	0.0	0.0	100		48	34.46	5.57
7665.0	0.0	0.0	100		49	34.45	5.57
7666.0	0.0	0.1	100		41	34.45	5.57
7680.0	0.0	0.1	100		47	34.45	5.57
7681.0	0.0	0.1	100		41	34.45	5.57
7682.0	0.0	0.3	100		37	34.45	5.57
7683.0	0.0	0.0	100		42	34.45	5.57
7684.0	0.0	0.1	100		35	34.45	5.57
7685.0	0.0	0.7	100		27	34.45	5.57
7686.0	0.0	1.3	100		24	34.44	5.57
7687.0	0.0	1.4	100		25	34.42	5.57
7688.0	0.0	1.4	100		25	34.41	5.57
7689.0	0.0	1.7	100		24	34.39	5.57
7690.0	0.0	2.5	99		17	34.37	5.57
7691.0	0.0	3.1	100		19	34.35	5.57
7692.0	0.0	3.4	100		23	34.32	5.57
7693.0	0.0	0.0	100		45	34.29	5.57
7715.0	0.0	0.1	100		42	34.29	5.57
7716.0	0.0	0.0	100		43	34.29	5.57
7724.0	0.0	0.0	100		47	34.29	5.57
7725.0	0.0	2.5	100		25	34.29	5.57
7726.0	0.0	1.7	100		27	34.26	5.57
7727.0	0.0	1.1	100		30	34.25	5.57
7728.0	0.0	1.7	100		29	34.24	5.57
7729.0	0.0	4.1	100		21	34.21	5.57
7730.0	0.0	2.1	100		27	34.17	5.57
7731.0	0.0	0.0	100		43	34.16	5.57
7751.0	0.0	0.0	100		49	34.16	5.57
7756.0	0.0	0.0	100		49	34.16	5.57
7757.0	0.0	0.2	100		39	34.16	5.57
7758.0	0.0	3.4	100		21	34.14	5.57
7759.0	0.0	6.2	76		16	34.11	5.57
7760.0	0.0	0.0	100		45	34.07	5.56

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7766.0	0.0	0.0	100		44	34.07	5.56
7767.0	0.0	0.1	100		40	34.07	5.56
7781.0	0.0	0.0	100		48	34.07	5.56
7784.0	0.0	0.0	100		49	34.07	5.56
7785.0	0.0	0.0	100		43	34.07	5.56
7786.0	0.0	0.0	100		41	34.07	5.56
7787.0	0.0	0.1	100		43	34.07	5.56
7791.0	0.0	0.0	100		41	34.07	5.56
7792.0	0.0	2.5	100		21	34.06	5.56
7793.0	0.0	3.4	98		14	34.04	5.56
7794.0	0.0	4.2	86		15	34.00	5.56
7795.0	0.0	4.3	100		16	33.96	5.56
7796.0	0.0	1.1	100		32	33.92	5.56
7798.0	0.0	0.0	100		44	33.91	5.56
7799.0	0.0	2.2	100		26	33.90	5.56
7800.0	0.0	0.0	100		36	33.89	5.56
7810.0	0.0	0.0	100		49	33.89	5.56
7811.0	0.0	0.1	100		41	33.89	5.56
7812.0	0.0	1.7	100		27	33.89	5.56
7813.0	0.0	1.4	100		20	33.87	5.56
7814.0	0.0	1.1	100		19	33.86	5.56
7815.0	0.0	0.0	100		26	33.85	5.56
7816.0	0.0	0.0	100		36	33.85	5.56
7817.0	0.0	0.0	100		39	33.85	5.56
7826.0	0.0	0.0	100		45	33.85	5.56
7827.0	0.0	0.0	100		40	33.85	5.56
7828.0	0.0	0.0	100		39	33.85	5.56
7829.0	0.0	0.0	100		37	33.85	5.56
7830.0	0.0	0.3	100		34	33.85	5.56
7831.0	0.0	0.9	100		27	33.84	5.56
7832.0	0.0	1.8	100		20	33.83	5.56
7833.0	0.0	1.8	100		18	33.81	5.56
7834.0	0.0	1.7	100		17	33.80	5.56
7835.0	0.0	2.6	100		17	33.78	5.56
7836.0	0.0	3.5	98		16	33.75	5.56
7837.0	0.0	4.2	83		17	33.71	5.56
7838.0	0.0	4.8	70		17	33.67	5.55
7839.0	0.0	5.2	75		14	33.62	5.53
7840.0	0.0	5.5	76		14	33.57	5.52
7841.0	0.0	5.5	84		12	33.51	5.50
7842.0	0.0	5.5	90		11	33.46	5.50

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7843.0	0.0	6.0	85		9	33.40	5.49
7844.0	0.0	6.7	74		9	33.34	5.48
7845.0	0.0	6.9	72		10	33.27	5.46
7846.0	0.0	6.8	70		11	33.20	5.44
7847.0	0.1	6.8	66		12	33.14	5.42
7848.0	0.1	6.9	65		10	33.07	5.40
7849.0	0.1	6.5	63		13	33.00	5.37
7850.0	0.0	5.2	79		14	32.93	5.35
7851.0	0.0	3.0	100		24	32.89	5.34
7852.0	0.0	0.2	100		47	32.87	5.34
7865.0	0.0	0.0	100		42	32.86	5.34
7872.0	0.0	0.0	100		43	32.86	5.34
7873.0	0.0	0.0	100		45	32.86	5.34
7883.0	0.0	0.1	100		44	32.86	5.34
7884.0	0.0	0.0	100		49	32.86	5.34
7890.0	0.0	0.0	100		49	32.86	5.34
7904.0	0.0	0.0	100		46	32.86	5.34
7905.0	0.0	0.0	100		48	32.86	5.34
7925.0	0.0	0.0	100		47	32.86	5.34
7926.0	0.0	0.1	100		40	32.86	5.34
7927.0	0.0	0.2	100		37	32.86	5.34
7928.0	0.0	0.2	100		35	32.86	5.34
7929.0	0.0	0.3	100		34	32.86	5.34
7930.0	0.0	0.0	100		37	32.85	5.34
7931.0	0.0	0.1	100		45	32.85	5.34
7936.0	0.0	0.0	100		47	32.85	5.34
7937.0	0.0	0.0	100		49	32.85	5.34
7940.0	0.0	0.0	100		48	32.85	5.34
7941.0	0.0	0.0	100		44	32.85	5.34
7942.0	0.0	0.0	100		43	32.85	5.34
7943.0	0.0	0.0	100		43	32.85	5.34
7944.0	0.0	0.0	100		45	32.85	5.34
7945.0	0.0	0.0	100		44	32.85	5.34
7946.0	0.0	0.0	100		42	32.85	5.34
7947.0	0.0	0.0	100		41	32.85	5.34
7948.0	0.0	0.0	100		42	32.85	5.34
7949.0	0.0	0.0	100		48	32.85	5.34
7958.0	0.0	0.0	100		48	32.85	5.34
7961.0	0.0	0.0	100		49	32.85	5.34

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7972.0	0.0	0.1	100		40	32.85	5.34
7973.0	0.0	0.0	100		47	32.85	5.34
7976.0	0.0	0.0	100		49	32.85	5.34
7977.0	0.0	0.5	100		35	32.85	5.34
7978.0	0.0	0.1	100		35	32.84	5.34
7979.0	0.0	0.0	100		39	32.84	5.34
7980.0	0.0	0.0	100		47	32.84	5.34
7985.0	0.0	0.0	100		48	32.84	5.34
7986.0	0.0	0.1	100		44	32.84	5.34
7987.0	0.0	0.2	100		35	32.83	5.34
7988.0	0.0	2.3	100		20	32.82	5.34
7989.0	0.0	2.3	100		21	32.80	5.34
7990.0	0.0	2.0	100		24	32.78	5.34
7991.0	0.0	2.5	100		19	32.76	5.34
7992.0	0.0	3.8	100		14	32.73	5.34
7993.0	0.0	5.1	82		13	32.69	5.34
7994.0	0.0	5.9	76		13	32.63	5.33
7995.0	0.0	6.3	72		13	32.57	5.32
7996.0	0.0	6.4	70		14	32.51	5.30
7997.0	0.0	6.8	70		11	32.45	5.28
7998.0	0.0	6.9	68		11	32.38	5.26
7999.0	0.0	6.1	72		12	32.31	5.23
8000.0	0.0	5.1	80		14	32.25	5.22
8001.0	0.0	4.3	96		15	32.20	5.21
8002.0	0.0	2.8	100		18	32.16	5.21
8003.0	0.0	2.9	100		17	32.14	5.21
8004.0	0.0	2.5	100		22	32.11	5.21
8005.0	0.0	0.0	100		39	32.09	5.21
8010.0	0.0	0.0	100		49	32.09	5.21
8011.0	0.0	0.1	100		39	32.09	5.21
8012.0	0.0	1.2	100		30	32.08	5.21
8013.0	0.0	3.2	99		16	32.07	5.21
8014.0	0.0	5.0	100		7	32.03	5.21
8015.0	0.2	9.2	74		4	31.97	5.21
8016.0	0.0	0.0	100		40	31.92	5.20
8031.0	0.0	0.0	100		44	31.92	5.20
8032.0	0.0	0.0	100		38	31.92	5.20
8033.0	0.0	0.1	100		44	31.92	5.20
8039.0	0.0	0.0	100		50	31.92	5.20
8044.0	0.0	0.0	100		45	31.92	5.20
8045.0	0.0	0.0	100		45	31.92	5.20

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8046.0	0.0	0.1	100		46	31.92	5.20
8047.0	0.0	0.2	100		43	31.92	5.20
8048.0	0.0	1.4	100		29	31.92	5.20
8049.0	0.0	3.3	100		15	31.90	5.20
8050.0	0.0	3.9	100		12	31.86	5.20
8051.0	0.0	4.4	100		12	31.82	5.20
8052.0	0.0	5.6	84		13	31.77	5.20
8053.0	0.0	5.8	78		15	31.72	5.18
8054.0	0.0	5.9	73		16	31.66	5.17
8055.0	0.0	6.0	67		17	31.60	5.15
8056.0	0.0	5.4	79		18	31.54	5.14
8057.0	0.0	2.0	100		29	31.49	5.13
8058.0	0.0	1.0	100		50	31.48	5.13
8066.0	0.0	0.0	100		46	31.45	5.13
8067.0	0.0	0.0	100		42	31.45	5.13
8068.0	0.0	0.0	100		40	31.45	5.13
8069.0	0.0	0.1	100		37	31.45	5.13
8070.0	0.0	0.0	100		43	31.45	5.13
8073.0	0.0	0.0	100		43	31.45	5.13
8074.0	0.0	0.0	100		41	31.45	5.13
8075.0	0.0	0.0	100		47	31.45	5.13
8083.0	0.0	0.0	100		40	31.45	5.13
8084.0	0.0	0.5	100		33	31.45	5.13
8085.0	0.0	0.1	100		37	31.45	5.13
8092.0	0.0	0.4	100		34	31.45	5.13
8093.0	0.0	1.8	100		28	31.43	5.13
8094.0	0.0	0.0	100		48	31.42	5.13
8097.0	0.0	0.0	100		46	31.42	5.13
8098.0	0.0	0.0	100		40	31.42	5.13
8099.0	0.0	0.0	100		44	31.42	5.13
8115.0	0.0	0.0	100		46	31.42	5.13
8116.0	0.0	0.0	100		37	31.42	5.13
8117.0	0.0	0.0	100		37	31.42	5.13
8118.0	0.0	0.0	100		39	31.42	5.13
8119.0	0.0	0.0	100		49	31.42	5.13
8130.0	0.0	0.0	100		43	31.42	5.13
8131.0	0.0	0.0	100		37	31.42	5.13
8132.0	0.0	0.5	100		35	31.41	5.13
8133.0	0.0	0.0	100		41	31.41	5.13
8134.0	0.0	0.0	100		49	31.41	5.13
8145.0	0.0	0.0	100		45	31.41	5.13

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8146.0	0.0	0.0	100		49	31.41	5.13
8148.0	0.0	0.0	100		48	31.41	5.13
8149.0	0.0	0.0	100		39	31.41	5.13
8150.0	0.0	0.0	100		37	31.40	5.13
8151.0	0.0	0.0	100		41	31.40	5.13
8152.0	0.0	0.0	100		38	31.40	5.13
8153.0	0.0	0.0	100		40	31.40	5.13
8154.0	0.0	0.0	100		50	31.40	5.13
8158.0	0.0	0.0	100		49	31.40	5.13
8159.0	0.0	0.0	100		45	31.40	5.13
8160.0	0.0	0.0	100		41	31.40	5.13
8161.0	0.0	0.0	100		39	31.40	5.13
8162.0	0.0	0.0	100		39	31.40	5.13
8163.0	0.0	0.0	100		38	31.40	5.13
8164.0	0.0	0.3	100		34	31.40	5.13
8165.0	0.0	1.5	100		26	31.39	5.13
8166.0	0.0	1.9	100		22	31.37	5.13
8167.0	0.0	1.7	100		19	31.36	5.13
8168.0	0.0	1.6	100		18	31.34	5.13
8169.0	0.0	1.7	100		18	31.32	5.13
8170.0	0.0	2.6	100		18	31.30	5.13
8171.0	0.0	4.1	100		13	31.27	5.13
8172.0	0.0	4.8	75		12	31.23	5.12
8173.0	0.0	4.7	80		12	31.18	5.11
8174.0	0.0	4.5	89		13	31.14	5.10
8175.0	0.0	4.5	95		13	31.09	5.10
8176.0	0.0	5.2	82		12	31.04	5.10
8177.0	0.0	6.2	72		11	30.99	5.09
8178.0	0.0	6.5	72		10	30.93	5.07
8179.0	0.0	5.9	87		10	30.86	5.05
8180.0	0.0	5.9	87		10	30.80	5.04
8181.0	0.0	5.4	92		11	30.74	5.04
8182.0	0.0	5.2	89		12	30.69	5.03
8183.0	0.0	5.1	99		12	30.64	5.03
8184.0	0.0	4.5	100		20	30.59	5.03
8185.0	0.0	0.1	100		44	30.56	5.03
8188.0	0.0	0.0	100		47	30.56	5.03
8189.0	0.0	0.0	100		48	30.56	5.03
8190.0	0.0	0.0	100		46	30.56	5.03
8191.0	0.0	0.0	100		46	30.56	5.03
8192.0	0.0	0.0	100		46	30.56	5.03
8193.0	0.0	0.0	100		45	30.56	5.03
8208.0	0.0	0.0	100		45	30.56	5.03
8209.0	0.0	0.0	100		33	30.56	5.03

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8210.0	0.0	0.0	100		36	30.56	5.03
8221.0	0.0	0.0	100		49	30.56	5.03
8222.0	0.0	0.0	100		39	30.56	5.03
8223.0	0.0	0.1	100		36	30.56	5.03
8224.0	0.0	0.6	100		33	30.55	5.03
8225.0	0.0	0.4	100		34	30.55	5.03
8226.0	0.0	1.0	100		29	30.54	5.03
8227.0	0.0	1.3	100		19	30.53	5.03
8228.0	0.0	0.7	100		21	30.52	5.03
8229.0	0.0	1.7	100		19	30.51	5.03
8230.0	0.0	2.5	100		18	30.49	5.03
8231.0	0.0	2.7	100		16	30.47	5.03
8232.0	0.0	2.5	100		15	30.44	5.03
8233.0	0.0	3.0	100		15	30.41	5.03
8234.0	0.0	3.8	96		15	30.38	5.03
8235.0	0.0	3.4	100		13	30.34	5.02
8236.0	0.0	3.3	100		12	30.31	5.02
8237.0	0.0	4.3	100		11	30.28	5.02
8238.0	0.0	5.1	97		10	30.23	5.02
8239.0	0.0	5.6	96		9	30.18	5.02
8240.0	0.0	5.6	100		7	30.12	5.02
8241.0	0.0	5.2	100		6	30.07	5.02
8242.0	0.0	5.7	100		5	30.01	5.02
8243.0	0.0	7.3	93		4	29.95	5.02
8244.0	0.1	7.8	85		3	29.88	5.01
8245.0	0.1	7.9	80		3	29.80	5.00
8246.0	0.1	7.8	98		3	29.72	4.99
8247.0	0.0	7.4	94		3	29.65	4.99
8248.0	0.0	7.4	94		3	29.57	4.98
8249.0	0.1	7.7	84		4	29.50	4.98
8250.0	0.0	7.1	88		6	29.42	4.97
8251.0	0.0	6.9	86		7	29.35	4.96
8252.0	0.0	6.7	74		9	29.28	4.94
8253.0	0.0	6.0	74		10	29.22	4.93
8254.0	0.0	5.0	92		12	29.16	4.91
8255.0	0.0	4.0	100		21	29.11	4.91
8256.0	0.0	1.7	100		32	29.08	4.91
8268.0	0.0	0.0	100		50	29.03	4.91
8269.0	0.0	0.1	100		30	29.03	4.91
8270.0	0.0	0.0	100		27	29.03	4.91
8271.0	0.0	2.8	100		25	29.02	4.91
8272.0	0.0	0.0	100		43	29.01	4.91
8273.0	0.0	0.0	100		46	29.01	4.91
8279.0	0.0	0.4	100		36	29.01	4.91
8280.0	0.0	2.0	100		23	29.00	4.91

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8281.0	0.0	3.6	94		15	28.97	4.91
8282.0	0.2	7.2	66		10	28.93	4.90
8283.0	0.0	0.0	100		36	28.86	4.89
8284.0	0.0	0.0	100		49	28.86	4.89
8287.0	0.0	0.0	100		44	28.86	4.89
8288.0	0.0	0.0	100		46	28.86	4.89
8300.0	0.0	0.0	100		46	28.86	4.89
8301.0	0.0	0.0	100		42	28.86	4.89
8302.0	0.0	0.0	100		41	28.86	4.89
8303.0	0.0	0.0	100		43	28.86	4.89
8304.0	0.0	0.0	100		45	28.86	4.89
8305.0	0.0	0.0	100		49	28.86	4.89
8306.0	0.0	0.0	100		50	28.86	4.89
8314.0	0.0	0.0	100		50	28.86	4.89
8323.0	0.0	0.0	100		45	28.86	4.89
8324.0	0.0	0.0	100		46	28.86	4.89
8327.0	0.0	0.0	100		48	28.86	4.89
8332.0	0.0	0.0	100		50	28.86	4.89
8333.0	0.0	0.0	100		47	28.86	4.89
8334.0	0.0	0.0	100		48	28.86	4.89
8335.0	0.0	0.0	100		44	28.86	4.89
8336.0	0.0	0.0	100		44	28.86	4.89
8353.0	0.0	0.0	100		50	28.86	4.89
8354.0	0.0	0.0	100		45	28.86	4.89
8355.0	0.0	0.0	100		48	28.86	4.89
8362.0	0.0	0.0	100		49	28.86	4.89
8363.0	0.0	0.0	100		44	28.86	4.89
8366.0	0.0	0.0	100		49	28.86	4.89
8367.0	0.0	0.0	100		49	28.86	4.89
8368.0	0.0	0.0	100		50	28.86	4.89
8369.0	0.0	0.0	100		48	28.86	4.89
8370.0	0.0	0.0	100		44	28.86	4.89
8371.0	0.0	0.0	100		40	28.86	4.89
8372.0	0.0	0.1	100		41	28.86	4.89
8373.0	0.0	0.0	100		48	28.86	4.89
8383.0	0.0	0.0	100		48	28.86	4.89
8387.0	0.0	0.0	100		41	28.86	4.89

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8388.0	0.0	1.5	100		26	28.86	4.89
8389.0	0.0	3.9	99		10	28.84	4.89
8390.0	0.0	5.8	100		2	28.79	4.89
8391.0	0.0	7.1	83		7	28.73	4.89
8392.0	0.0	0.0	100		39	28.68	4.88
8393.0	0.0	0.0	100		45	28.68	4.88
8394.0	0.0	0.0	100		48	28.68	4.88
8397.0	0.0	0.1	100		44	28.68	4.88
8411.0	0.0	0.0	100		46	28.68	4.88
8412.0	0.0	0.0	100		46	28.68	4.88
8425.0	0.0	0.0	100		50	28.68	4.88
8426.0	0.0	0.0	100		42	28.68	4.88
8427.0	0.0	0.0	100		43	28.68	4.88
8428.0	0.0	0.0	100		45	28.68	4.88
8432.0	0.0	0.0	100		47	28.68	4.88
8433.0	0.0	0.0	100		40	28.68	4.88
8434.0	0.0	0.0	100		48	28.68	4.88
8439.0	0.0	0.0	100		46	28.68	4.88
8440.0	0.0	0.0	100		43	28.68	4.88
8441.0	0.0	0.1	100		36	28.68	4.88
8442.0	0.0	0.4	100		34	28.68	4.88
8443.0	0.0	0.5	100		33	28.67	4.88
8444.0	0.0	0.4	100		34	28.67	4.88
8445.0	0.0	0.0	100		36	28.66	4.88
8446.0	0.0	0.0	100		42	28.66	4.88
8447.0	0.0	0.0	100		48	28.66	4.88
8448.0	0.0	0.0	100		49	28.66	4.88
8453.0	0.0	0.0	100		47	28.66	4.88
8454.0	0.0	0.0	100		41	28.66	4.88
8455.0	0.0	0.0	100		43	28.66	4.88
8456.0	0.0	0.0	100		44	28.66	4.88
8457.0	0.0	0.0	100		49	28.66	4.88
8461.0	0.0	0.0	100		49	28.66	4.88
8462.0	0.0	0.0	100		47	28.66	4.88
8463.0	0.0	0.0	100		49	28.66	4.88
8469.0	0.0	0.0	100		47	28.66	4.88
8470.0	0.0	0.0	100		48	28.66	4.88
8483.0	0.0	0.0	100		49	28.66	4.88
8484.0	0.0	0.0	100		46	28.66	4.88

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8485.0	0.0	0.0	100		49	28.66	4.88
8486.0	0.0	0.0	100		49	28.66	4.88
8487.0	0.0	2.3	100		26	28.66	4.88
8488.0	0.0	4.4	100		20	28.63	4.88
8489.0	0.0	0.0	100		47	28.60	4.88
8492.0	0.0	0.0	100		49	28.60	4.88
8493.0	0.0	0.0	100		37	28.60	4.88
8494.0	0.0	3.2	100		23	28.59	4.88
8495.0	0.0	3.2	100		22	28.55	4.88
8496.0	0.0	3.7	100		16	28.52	4.88
8497.0	0.0	3.9	100		11	28.48	4.88
8498.0	0.0	2.4	100		11	28.45	4.88
8499.0	0.0	2.3	100		13	28.43	4.88
8500.0	0.0	2.7	100		14	28.40	4.88
8501.0	0.0	2.9	100		13	28.37	4.88
8502.0	0.0	3.2	99		12	28.34	4.88
8503.0	0.0	2.4	100		21	28.31	4.88
8504.0	0.0	0.6	100		33	28.29	4.88
8505.0	0.0	0.0	100		44	28.29	4.88
8516.0	0.0	0.0	100		43	28.28	4.88
8517.0	0.0	1.1	100		31	28.28	4.88
8518.0	0.0	2.0	100		26	28.27	4.88
8519.0	0.0	1.4	100		26	28.25	4.88
8520.0	0.0	0.1	100		36	28.24	4.88
8521.0	0.0	0.0	100		44	28.24	4.88
8522.0	0.0	0.2	100		38	28.24	4.88
8523.0	0.0	4.1	94		17	28.22	4.88
8524.0	0.0	6.9	79		5	28.18	4.87
8525.0	2	11.4	61		0	28.10	4.85
8526.0	0.0	0.0	100		36	28.02	4.83
8527.0	0.0	0.0	100		46	28.02	4.83
8534.0	0.0	0.0	100		47	28.02	4.83
8539.0	0.0	0.0	100		50	28.02	4.83
8542.0	0.0	0.0	100		47	28.02	4.83
8543.0	0.0	0.0	100		47	28.02	4.83
8545.0	0.0	0.0	100		49	28.02	4.83
8546.0	0.0	0.0	100		46	28.02	4.83
8547.0	0.0	0.0	100		43	28.02	4.83
8554.0	0.0	0.0	100		48	28.02	4.83
8555.0	0.0	0.0	100		43	28.02	4.83
8556.0	0.0	0.0	100		46	28.02	4.83

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8557.0	0.0	0.0	100		42	28.02	4.83
8558.0	0.0	0.0	100		42	28.02	4.83
8559.0	0.0	0.0	100		47	28.02	4.83
8560.0	0.0	0.0	100		40	28.02	4.83
8561.0	0.0	3.9	74		20	28.00	4.83
8562.0	0.3	7.8	61		12	27.96	4.81
8563.0	0.0	0.0	100		39	27.92	4.80
8564.0	0.0	0.0	100		48	27.92	4.80
8568.0	0.0	0.0	100		48	27.92	4.80
8574.0	0.0	0.0	100		45	27.92	4.80
8575.0	0.0	0.0	100		39	27.92	4.80
8576.0	0.0	0.0	100		38	27.92	4.80
8577.0	0.0	0.5	100		38	27.92	4.80
8578.0	0.0	0.2	100		44	27.91	4.80
8579.0	0.0	0.2	100		43	27.91	4.80
8580.0	0.0	3.5	100		19	27.90	4.80
8581.0	0.0	4.5	100		14	27.87	4.80
8582.0	0.0	5.0	98		12	27.82	4.80
8583.0	0.0	5.2	98		12	27.77	4.80
8584.0	0.0	5.4	98		13	27.72	4.80
8585.0	0.0	5.4	100		13	27.66	4.80
8586.0	0.0	6.0	99		12	27.61	4.80
8587.0	0.0	6.3	98		11	27.55	4.79
8588.0	0.0	6.6	89		10	27.48	4.79
8589.0	0.0	6.9	84		11	27.41	4.78
8590.0	0.0	6.4	89		11	27.35	4.77
8591.0	0.0	6.7	83		9	27.28	4.77
8592.0	0.0	6.7	76		10	27.21	4.75
8593.0	0.0	6.1	86		10	27.15	4.74
8594.0	0.0	5.7	91		11	27.09	4.73
8595.0	0.0	5.1	93		14	27.03	4.73
8596.0	0.0	4.5	99		16	26.98	4.72
8597.0	0.0	3.9	100		17	26.94	4.72
8598.0	0.0	2.3	100		26	26.90	4.72
8599.0	0.0	0.7	100		38	26.88	4.72
8608.0	0.0	1.2	100		41	26.83	4.72
8609.0	0.0	4.8	71		16	26.82	4.72
8610.0	0.0	2.7	100		12	26.78	4.72
8611.0	0.0	3.7	74		12	26.75	4.72
8612.0	0.0	4.7	71		12	26.71	4.70
8613.0	0.0	5.1	78		11	26.66	4.69
8614.0	0.0	5.0	95		9	26.61	4.68
8615.0	0.0	5.0	98		9	26.56	4.68
8616.0	0.0	5.1	98		10	26.51	4.68
8617.0	0.0	5.5	92		10	26.46	4.68

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8618.0	0.0	5.6	90		9	26.40	4.67
8619.0	0.0	5.1	97		10	26.35	4.67
8620.0	0.0	4.6	100		10	26.30	4.67
8621.0	0.0	4.3	100		10	26.25	4.67
8622.0	0.0	3.8	100		15	26.21	4.67
8623.0	0.0	2.8	100		24	26.17	4.67
8624.0	0.0	0.1	100		45	26.15	4.67
8625.0	0.0	0.0	100		46	26.15	4.67
8626.0	0.0	0.0	100		41	26.15	4.67
8627.0	0.0	0.0	100		41	26.15	4.67
8628.0	0.0	0.0	100		46	26.15	4.67
8629.0	0.0	0.0	100		49	26.15	4.67
8630.0	0.0	0.0	100		43	26.15	4.67
8631.0	0.0	0.0	100		43	26.15	4.67
8642.0	0.0	0.0	100		36	26.15	4.67
8643.0	0.0	0.0	100		27	26.15	4.67
8644.0	0.0	0.0	100		35	26.15	4.67
8645.0	0.0	0.0	100		43	26.15	4.67
8646.0	0.0	0.0	100		44	26.15	4.67
8647.0	0.0	0.0	100		45	26.15	4.67
8649.0	0.0	0.0	100		47	26.15	4.67
8650.0	0.0	0.0	100		46	26.15	4.67
8651.0	0.0	0.0	100		45	26.15	4.67
8652.0	0.0	0.0	100		42	26.15	4.67
8653.0	0.0	0.0	100		44	26.15	4.67
8654.0	0.0	0.0	100		46	26.15	4.67
8655.0	0.0	0.0	100		50	26.15	4.67
8673.0	0.0	0.0	100		48	26.15	4.67
8674.0	0.0	0.0	100		41	26.15	4.67
8675.0	0.0	0.0	100		39	26.15	4.67
8676.0	0.0	0.0	100		49	26.15	4.67
8678.0	0.0	0.0	100		50	26.15	4.67
8679.0	0.0	0.0	100		49	26.15	4.67
8683.0	0.0	0.0	100		50	26.15	4.67
8693.0	0.0	0.0	100		46	26.15	4.67
8694.0	0.0	0.0	100		46	26.15	4.67
8695.0	0.0	0.0	100		50	26.15	4.67
8709.0	0.0	0.0	100		45	26.15	4.67
8710.0	0.0	0.0	100		39	26.15	4.67
8711.0	0.0	0.0	100		36	26.15	4.67
8712.0	0.0	0.1	100		40	26.15	4.67

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8721.0	0.0	0.0	100		50	26.15	4.67
8722.0	0.0	0.0	100		42	26.15	4.67
8723.0	0.0	0.1	100		35	26.15	4.67
8724.0	0.0	0.5	100		33	26.15	4.67
8725.0	0.0	0.8	100		29	26.14	4.67
8726.0	0.0	1.3	100		25	26.13	4.67
8727.0	0.0	2.5	100		21	26.12	4.67
8728.0	0.0	3.4	96		18	26.09	4.67
8729.0	0.0	3.6	94		18	26.05	4.67
8730.0	0.0	4.0	84		18	26.02	4.66
8731.0	0.0	4.5	76		16	25.97	4.65
8732.0	0.0	4.4	82		16	25.93	4.64
8733.0	0.0	4.1	88		16	25.89	4.64
8734.0	0.0	3.9	93		15	25.84	4.63
8735.0	0.0	3.9	90		13	25.81	4.63
8736.0	0.0	3.1	98		15	25.77	4.63
8737.0	0.0	0.7	100		27	25.74	4.62
8738.0	0.0	0.0	100		37	25.74	4.62
8739.0	0.0	0.0	100		37	25.74	4.62
8740.0	0.0	0.0	100		38	25.74	4.62
8741.0	0.0	0.0	100		38	25.74	4.62
8742.0	0.0	0.0	100		36	25.74	4.62
8743.0	0.0	1.5	100		25	25.74	4.62
8744.0	0.0	2.8	97		17	25.72	4.62
8745.0	0.0	2.7	99		16	25.69	4.62
8746.0	0.0	1.6	100		20	25.67	4.62
8747.0	0.0	1.9	100		19	25.65	4.62
8748.0	0.0	3.0	100		16	25.63	4.62
8749.0	0.0	2.9	99		17	25.60	4.62
8750.0	0.0	3.2	99		15	25.57	4.62
8751.0	0.0	3.2	95		15	25.54	4.62
8752.0	0.0	3.2	100		16	25.50	4.62
8753.0	0.0	3.7	97		16	25.47	4.62
8754.0	0.0	3.8	95		22	25.43	4.62
8755.0	0.0	0.2	100		39	25.40	4.61
8764.0	0.0	0.0	100		46	25.40	4.61
8765.0	0.0	0.0	100		43	25.40	4.61
8766.0	0.0	0.0	100		44	25.40	4.61
8769.0	0.0	0.0	100		49	25.40	4.61
8770.0	0.0	0.0	100		42	25.40	4.61
8771.0	0.0	0.0	100		40	25.40	4.61
8772.0	0.0	0.0	100		45	25.40	4.61
8773.0	0.0	0.0	100		49	25.40	4.61
8777.0	0.0	0.0	100		44	25.40	4.61

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8778.0	0.0	0.0	100		39	25.40	4.61
8779.0	0.0	0.0	100		44	25.40	4.61
8783.0	0.0	0.0	100		48	25.40	4.61
8786.0	0.0	0.1	100		38	25.40	4.61
8787.0	0.0	1.8	100		28	25.39	4.61
8788.0	0.0	0.4	100		36	25.38	4.61
8796.0	0.0	0.0	100		49	25.38	4.61
8797.0	0.0	0.0	100		40	25.38	4.61
8798.0	0.0	2.2	100		27	25.37	4.61
8799.0	0.0	1.0	100		31	25.35	4.61
8800.0	0.0	0.1	100		40	25.34	4.61
8801.0	0.0	0.0	100		47	25.34	4.61
8802.0	0.0	0.0	100		50	25.34	4.61
8804.0	0.0	0.0	100		47	25.34	4.61
8805.0	0.0	0.0	100		40	25.34	4.61
8806.0	0.0	0.0	100		36	25.34	4.61
8807.0	0.0	0.0	100		36	25.34	4.61
8808.0	0.0	0.0	100		36	25.34	4.61
8809.0	0.0	0.0	100		39	25.34	4.61
8810.0	0.0	0.0	100		47	25.34	4.61
8811.0	0.0	0.0	100		48	25.34	4.61
8815.0	0.0	0.0	100		48	25.34	4.61
8816.0	0.0	0.0	100		43	25.34	4.61
8817.0	0.0	2.8	100		25	25.34	4.61
8818.0	0.1	6.2	62		10	25.30	4.61
8819.0	2	11.3	53		1	25.23	4.58
8820.0	0.0	0.0	100		35	25.13	4.54
8821.0	0.0	0.0	100		39	25.13	4.54
8822.0	0.0	0.0	100		42	25.13	4.54
8823.0	0.0	0.0	100		45	25.13	4.54
8824.0	0.0	0.0	100		46	25.13	4.54
8825.0	0.0	0.0	100		48	25.13	4.54
8830.0	0.0	0.0	100		47	25.13	4.54
8831.0	0.0	0.0	100		49	25.13	4.54
8833.0	0.0	0.0	100		47	25.13	4.54
8834.0	0.0	0.2	100		39	25.13	4.54
8835.0	0.0	0.2	100		39	25.12	4.54
8836.0	0.0	0.0	100		50	25.12	4.54
8839.0	0.0	0.1	100		47	25.12	4.54
8840.0	0.0	0.3	100		39	25.12	4.54

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8841.0	0.0	1.8	100		27	25.12	4.54
8842.0	0.0	2.4	100		19	25.10	4.54
8843.0	0.0	2.2	100		20	25.07	4.54
8844.0	0.0	2.1	100		22	25.05	4.54
8845.0	0.0	2.5	100		22	25.03	4.54
8846.0	0.0	1.9	100		22	25.01	4.54
8847.0	0.0	1.9	100		23	24.99	4.54
8848.0	0.0	2.4	100		22	24.97	4.54
8849.0	0.0	2.7	100		20	24.94	4.54
8850.0	0.0	2.2	100		21	24.92	4.54
8851.0	0.0	1.9	100		23	24.90	4.54
8852.0	0.0	2.0	100		27	24.88	4.54
8853.0	0.0	0.3	100		44	24.87	4.54
8866.0	0.0	0.0	100		45	24.86	4.54
8867.0	0.0	4.0	98		22	24.85	4.54
8868.0	0.0	1.4	100		29	24.81	4.54
8869.0	0.0	0.0	100		36	24.80	4.54
8870.0	0.0	0.0	100		45	24.80	4.54
8871.0	0.0	0.0	100		49	24.80	4.54
8872.0	0.0	0.0	100		48	24.80	4.54
8873.0	0.0	0.0	100		45	24.80	4.54
8877.0	0.0	0.0	100		49	24.80	4.54
8878.0	0.0	0.2	100		35	24.80	4.54
8879.0	0.0	0.0	100		30	24.79	4.54
8880.0	0.0	0.0	100		34	24.79	4.54
8881.0	0.0	0.3	100		35	24.79	4.54
8882.0	0.0	0.3	100		37	24.79	4.54
8883.0	0.0	0.0	100		48	24.79	4.54
8885.0	0.0	0.0	100		45	24.79	4.54
8886.0	0.0	0.0	100		45	24.79	4.54
8890.0	0.0	0.0	100		49	24.79	4.54
8891.0	0.0	0.0	100		46	24.79	4.54
8898.0	0.0	0.7	100		32	24.79	4.54
8899.0	0.0	2.7	100		18	24.77	4.54
8900.0	0.0	2.3	100		25	24.74	4.54
8905.0	0.0	0.0	100		43	24.73	4.54
8906.0	0.0	0.0	100		43	24.73	4.54
8907.0	0.0	0.0	100		38	24.73	4.54
8908.0	0.0	2.7	100		18	24.72	4.54
8909.0	0.0	2.1	100		17	24.69	4.54
8910.0	0.0	2.1	100		17	24.67	4.54
8911.0	0.0	2.4	100		20	24.65	4.54

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8912.0	0.0	0.4	100		36	24.63	4.54
8920.0	0.0	0.0	100		44	24.63	4.54
8923.0	0.0	0.0	100		41	24.63	4.54
8924.0	0.0	0.0	100		37	24.63	4.54
8925.0	0.0	0.0	100		37	24.63	4.54
8926.0	0.0	0.0	100		42	24.63	4.54
8927.0	0.0	0.0	100		50	24.63	4.54
8937.0	0.0	0.0	100		42	24.62	4.54
8938.0	0.0	0.0	100		38	24.62	4.54
8939.0	0.0	0.0	100		46	24.62	4.54
8940.0	0.0	0.0	100		48	24.62	4.54
8944.0	0.0	0.0	100		44	24.62	4.54
8945.0	0.0	0.0	100		38	24.62	4.54
8946.0	0.0	0.0	100		44	24.62	4.54
8947.0	0.0	0.0	100		43	24.62	4.54
8948.0	0.0	0.3	100		34	24.62	4.54
8949.0	0.0	3.0	100		24	24.61	4.54
8950.0	0.0	3.2	99		17	24.58	4.54
8951.0	0.0	1.9	100		17	24.55	4.54
8952.0	0.0	0.5	100		27	24.54	4.54
8953.0	0.0	0.1	100		41	24.53	4.54
8956.0	0.0	0.0	100		44	24.53	4.54
8957.0	0.0	0.8	100		32	24.53	4.54
8958.0	0.0	0.0	100		36	24.53	4.54
8959.0	0.0	0.0	100		37	24.53	4.54
8960.0	0.0	0.0	100		41	24.53	4.54
8962.0	0.0	0.0	100		48	24.53	4.54
8963.0	0.0	0.1	100		39	24.53	4.54
8964.0	0.0	0.9	100		31	24.53	4.54
8965.0	0.0	1.6	100		25	24.51	4.54
8966.0	0.0	1.8	100		22	24.50	4.54
8967.0	0.0	1.3	100		30	24.48	4.54
8968.0	0.0	0.0	100		49	24.47	4.54
8980.0	0.0	0.0	100		42	24.47	4.54
8981.0	0.0	0.0	100		35	24.47	4.54
8982.0	0.0	0.6	100		25	24.45	4.53
8983.0	0.0	0.0	100		30	24.44	4.53
8984.0	0.0	0.0	100		39	24.44	4.53
8990.0	0.0	1.8	100		28	24.44	4.53
8991.0	0.0	2.2	100		26	24.42	4.53

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8992.0	0.0	0.0	100		42	24.40	4.53
9005.0	0.0	0.0	100		47	24.40	4.53
9008.0	0.0	0.0	100		47	24.40	4.53
9009.0	0.0	0.0	100		43	24.40	4.53
9013.0	0.0	0.0	100		45	24.40	4.53
9014.0	0.0	0.0	100		39	24.40	4.53
9015.0	0.0	0.0	100		38	24.40	4.53
9016.0	0.0	0.1	100		37	24.40	4.53
9017.0	0.0	0.1	100		36	24.40	4.53
9018.0	0.0	0.3	100		34	24.40	4.53
9019.0	0.0	0.8	100		31	24.39	4.53
9020.0	0.0	0.3	100		33	24.39	4.53
9021.0	0.0	0.0	100		36	24.38	4.53
9022.0	0.0	0.0	100		47	24.38	4.53
9025.0	0.0	0.0	100		45	24.38	4.53
9026.0	0.0	0.0	100		49	24.38	4.53
9028.0	0.0	0.0	100		49	24.38	4.53
9029.0	0.0	0.1	100		44	24.38	4.53
9030.0	0.0	0.1	100		37	24.38	4.53
9031.0	0.0	1.0	100		31	24.38	4.53
9032.0	0.0	0.3	100		34	24.37	4.53
9033.0	0.0	0.0	100		42	24.37	4.53
9034.0	0.0	0.0	100		47	24.37	4.53
9035.0	0.0	0.1	100		38	24.37	4.53
9036.0	0.0	1.5	100		22	24.36	4.53
9037.0	0.0	1.2	100		20	24.34	4.53
9038.0	0.0	0.6	100		26	24.33	4.53
9039.0	0.0	0.0	100		36	24.33	4.53
9056.0	0.0	0.0	100		43	24.33	4.53
9057.0	0.0	0.0	100		36	24.33	4.53
9058.0	0.3	5.4	24		18	24.30	4.51
9059.0	0.0	1.0	100		24	24.26	4.48
9060.0	0.0	0.0	100		27	24.25	4.48
9061.0	0.0	0.3	100		25	24.25	4.48
9062.0	0.0	1.2	100		18	24.25	4.48
9063.0	0.0	0.8	100		19	24.23	4.48
9064.0	0.0	0.7	100		23	24.23	4.48
9065.0	0.0	1.5	100		22	24.22	4.48
9066.0	0.0	1.6	100		20	24.20	4.48
9067.0	0.0	1.2	100		23	24.19	4.48
9068.0	0.0	1.0	100		23	24.18	4.48
9069.0	0.0	1.4	100		18	24.17	4.48

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9070.0	0.0	1.8	100		15	24.15	4.48
9071.0	0.0	2.7	100		13	24.13	4.48
9072.0	0.0	3.4	99		11	24.10	4.48
9073.0	0.0	4.2	92		10	24.06	4.48
9074.0	0.0	4.4	89		10	24.02	4.48
9075.0	0.0	4.0	96		12	23.98	4.47
9076.0	0.0	4.5	90		10	23.94	4.47
9077.0	0.0	4.7	82		9	23.89	4.47
9078.0	0.0	4.3	89		9	23.85	4.46
9079.0	0.0	3.0	100		13	23.81	4.46
9080.0	0.0	2.3	100		16	23.78	4.46
9081.0	0.0	2.0	100		18	23.76	4.46
9082.0	0.0	1.6	100		19	23.74	4.46
9083.0	0.0	2.9	100		16	23.72	4.46
9084.0	0.0	3.7	100		22	23.68	4.45
9085.0	0.0	0.0	100		45	23.66	4.45
9086.0	0.0	0.0	100		47	23.66	4.45
9087.0	0.0	0.0	100		43	23.66	4.45
9088.0	0.0	0.0	100		38	23.66	4.45
9089.0	0.0	0.0	100		46	23.66	4.45
9097.0	0.0	0.0	100		43	23.66	4.45
9098.0	0.0	0.1	100		37	23.66	4.45
9099.0	0.0	0.7	100		32	23.66	4.45
9100.0	0.0	0.1	100		24	23.65	4.45
9101.0	0.0	0.0	100		25	23.65	4.45
9102.0	0.0	0.0	100		37	23.65	4.45
9110.0	0.0	0.0	100		49	23.65	4.45
9112.0	0.0	0.0	100		49	23.65	4.45
9113.0	0.0	0.0	100		44	23.65	4.45
9114.0	0.0	0.0	100		45	23.65	4.45
9115.0	0.0	0.0	100		50	23.65	4.45
9118.0	0.0	0.0	100		43	23.65	4.45
9119.0	0.0	0.1	100		37	23.65	4.45
9120.0	0.0	0.1	100		39	23.65	4.45
9121.0	0.0	0.0	100		45	23.65	4.45
9128.0	0.0	0.0	100		50	23.65	4.45
9129.0	0.0	0.0	100		47	23.65	4.45
9130.0	0.0	0.0	100		47	23.65	4.45
9135.0	0.0	0.3	100		37	23.65	4.45
9136.0	0.0	3.3	100		22	23.64	4.45
9137.0	0.1	5.7	60		16	23.60	4.45
9138.0	0.0	0.0	100		36	23.54	4.42

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9139.0	0.0	0.0	100		43	23.54	4.42
9140.0	0.0	0.0	100		46	23.54	4.42
9147.0	0.0	0.0	100		42	23.54	4.42
9148.0	0.0	0.0	100		46	23.54	4.42
9149.0	0.0	0.0	100		48	23.54	4.42
9152.0	0.0	0.0	100		48	23.54	4.42
9153.0	0.0	0.0	100		49	23.54	4.42
9156.0	0.0	0.0	100		46	23.54	4.42
9157.0	0.0	0.0	100		41	23.54	4.42
9158.0	0.0	0.0	100		43	23.54	4.42
9159.0	0.0	0.0	100		48	23.54	4.42
9163.0	0.0	0.0	100		46	23.54	4.42
9164.0	0.0	0.0	100		44	23.54	4.42
9165.0	0.0	0.0	100		38	23.54	4.42
9166.0	0.0	2.5	100		21	23.53	4.42
9167.0	0.0	2.6	100		21	23.50	4.42
9168.0	0.0	0.0	100		42	23.48	4.42
9174.0	0.0	0.0	100		43	23.48	4.42
9175.0	0.0	3.4	100		23	23.48	4.42
9176.0	0.0	0.1	100		40	23.45	4.42
9179.0	0.0	0.0	100		37	23.45	4.42
9180.0	0.0	0.0	100		35	23.45	4.42
9181.0	0.0	0.0	100		46	23.45	4.42
9184.0	0.0	0.0	100		49	23.45	4.42
9185.0	0.0	0.0	100		37	23.45	4.42
9186.0	0.0	0.0	100		36	23.45	4.42
9187.0	0.0	0.0	100		42	23.45	4.42
9188.0	0.0	0.0	100		42	23.45	4.42
9189.0	0.0	0.0	100		41	23.45	4.42
9190.0	0.0	0.0	100		42	23.45	4.42
9191.0	0.0	0.0	100		43	23.45	4.42
9192.0	0.0	0.0	100		45	23.45	4.42
9193.0	0.0	0.0	100		44	23.45	4.42
9194.0	0.0	0.0	100		43	23.45	4.42
9195.0	0.0	0.0	100		41	23.45	4.42
9196.0	0.0	0.2	100		36	23.45	4.42
9197.0	0.0	3.6	100		22	23.44	4.42
9198.0	0.0	3.8	100		16	23.40	4.42
9199.0	0.0	4.3	97		15	23.36	4.42
9200.0	0.0	4.1	87		15	23.32	4.42
9201.0	0.0	3.6	100		16	23.28	4.42

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9202.0	0.0	3.1	100		22	23.25	4.42
9203.0	0.0	1.1	100		31	23.22	4.42
9204.0	0.0	0.0	100		46	23.21	4.42
9205.0	0.0	0.0	100		49	23.21	4.42
9206.0	0.0	0.0	100		45	23.21	4.42
9207.0	0.0	0.0	100		47	23.21	4.42
9208.0	0.0	0.0	100		48	23.21	4.42
9209.0	0.0	0.0	100		43	23.21	4.42
9210.0	0.0	0.0	100		42	23.21	4.42
9211.0	0.0	0.0	100		50	23.21	4.42
9215.0	0.0	0.0	100		48	23.21	4.42
9220.0	0.0	0.0	100		44	23.21	4.42
9221.0	0.0	0.0	100		42	23.21	4.42
9222.0	0.0	0.0	100		47	23.21	4.42
9225.0	0.0	0.0	100		48	23.21	4.42
9226.0	0.0	0.0	100		48	23.21	4.42
9227.0	0.0	0.0	100		48	23.21	4.42
9228.0	0.0	0.0	100		45	23.21	4.42
9229.0	0.0	0.1	100		45	23.21	4.42
9230.0	0.0	0.0	100		45	23.21	4.42
9231.0	0.0	0.0	100		46	23.21	4.42
9232.0	0.0	0.0	100		47	23.21	4.42
9237.0	0.0	0.0	100		48	23.21	4.42
9238.0	0.0	0.0	100		45	23.21	4.42
9239.0	0.0	0.2	100		39	23.21	4.42
9240.0	0.0	0.0	100		38	23.21	4.42
9241.0	0.0	0.0	100		42	23.21	4.42
9242.0	0.0	0.0	100		47	23.21	4.42
9243.0	0.0	0.1	100		41	23.21	4.42
9244.0	0.0	0.4	100		35	23.21	4.42
9245.0	0.0	0.0	100		45	23.20	4.42
9246.0	0.0	0.0	100		41	23.20	4.42
9247.0	0.0	0.0	100		39	23.20	4.42
9253.0	0.0	0.0	100		44	23.20	4.42
9254.0	0.0	2.0	100		27	23.20	4.42
9255.0	0.0	4.0	100		21	23.17	4.42
9256.0	0.0	2.1	100		27	23.14	4.42
9257.0	0.0	0.5	100		36	23.12	4.42
9263.0	0.0	0.0	100		44	23.11	4.42
9264.0	0.0	0.0	100		47	23.11	4.42
9267.0	0.0	0.0	100		49	23.11	4.42

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9268.0	0.0	0.0	100		49	23.11	4.42
9269.0	0.0	0.0	100		47	23.11	4.42
9270.0	0.0	0.0	100		40	23.11	4.42
9271.0	0.0	0.0	100		39	23.11	4.42
9272.0	0.0	0.0	100		38	23.11	4.42
9273.0	0.0	0.2	100		35	23.11	4.42
9274.0	0.0	2.7	100		25	23.10	4.42
9275.0	0.0	4.1	100		21	23.07	4.42
9276.0	0.0	4.9	80		18	23.02	4.41
9277.0	0.0	4.9	85		19	22.97	4.40
9278.0	0.0	5.7	85		14	22.92	4.40
9279.0	0.0	7.4	68		11	22.86	4.38
9280.0	0.2	7.6	65		9	22.79	4.36
9281.0	0.2	6.9	62		11	22.71	4.33
9282.0	0.1	5.6	66		14	22.65	4.31
9283.0	0.0	4.4	80		16	22.59	4.29
9284.0	0.0	4.3	76		16	22.55	4.28
9285.0	0.0	4.5	77		15	22.50	4.27
9286.0	0.0	4.5	80		15	22.46	4.26
9287.0	0.0	4.4	86		14	22.42	4.25
9288.0	0.0	4.4	83		14	22.37	4.24
9289.0	0.0	4.7	72		13	22.33	4.24
9290.0	0.0	4.4	96		13	22.28	4.22
9291.0	0.0	5.1	59		14	22.24	4.22
9292.0	0.3	6.8	45		16	22.18	4.19
9293.0	0.2	6.2	49		16	22.11	4.16
9294.0	0.0	5.0	68		12	22.05	4.13
9295.0	0.0	5.0	74		10	22.00	4.12
9296.0	0.0	5.3	70		10	21.95	4.10
9297.0	0.0	5.0	74		11	21.90	4.09
9298.0	0.0	5.4	73		11	21.85	4.07
9299.0	0.0	5.7	69		12	21.80	4.06
9300.0	0.1	5.7	64		14	21.74	4.04
9301.0	0.0	5.5	72		15	21.68	4.02
9302.0	0.0	4.4	100		20	21.63	4.00
9303.0	0.0	0.0	100		40	21.60	4.00
9304.0	0.0	0.0	100		43	21.60	4.00
9305.0	0.0	0.0	100		44	21.60	4.00
9306.0	0.0	0.0	100		45	21.60	4.00
9310.0	0.0	0.0	100		44	21.60	4.00
9311.0	0.0	0.0	100		42	21.60	4.00
9340.0	0.0	0.0	100		45	21.60	4.00
9341.0	0.0	0.0	100		36	21.60	4.00
9342.0	0.1	5.0	41		22	21.58	3.99
9343.0	0.0	0.0	100		41	21.54	3.98
9352.0	0.0	0.0	100		41	21.54	3.98

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9353.0	0.0	0.0	100		37	21.54	3.98
9354.0	0.0	0.0	100		39	21.54	3.98
9355.0	0.0	0.0	100		46	21.54	3.98
9360.0	0.0	0.0	100		45	21.54	3.98
9361.0	0.0	0.0	100		49	21.54	3.98
9363.0	0.0	0.0	100		47	21.54	3.98
9384.0	0.0	0.0	100		49	21.54	3.98
9387.0	0.0	0.0	100		47	21.54	3.98
9388.0	0.0	0.2	100		39	21.54	3.98
9389.0	0.0	0.0	100		38	21.54	3.98
9390.0	0.0	0.0	100		38	21.54	3.98
9391.0	0.0	0.0	100		46	21.54	3.98

ISS - 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
0 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0

INPUT PARAMETERS FROM 11500. TO 9400.

WMUD	XLIT	BITSZ	BHT	BHTDEP	SUFT	RMF	RMFT	ROMFS	PHIMFS	DASIL
9.2	0.50	7.88	192.	11500.	75.	2.31	58.	1.000	0.996	0.850

SPCK	DSPCK	RODC	DELRGM	START	STOPLG	ZSPNL	BGN	ZSPDL	REC	RESH	CSS
0.	0.	2.84	0.20	11500.	4490.	0.020	1.00	0.000	20.00	1.00	0.2

WHY	PHILEV	BR SLIM	AK	PK	SK	STOPIN	PHIMAX	PHINCL	PHIDCL
.200	0.000	.10 0.30	62500.	6.0	2.0	9400.	0.075	0.250	-0.010

PHINSO	RTPM	PUN	DAX	DALIM	DAGA	DASH	DTSD	DTSH	CP	PSSH
0.090	165.	.015	76.	30.	20.	96.	150.	150.	0.90	.200

EDIAM	PNLIM	PDLIM	RLIM	GRLIM	VARMC	CONST	ROP	VARLIM	CSF
0.00	1.00	1.00	1000.0	1000.0	0.07	0.333	0.31	0.20	0.10

SP STATISTICS OVER ENTIRE INTERVAL

RESISTIVITY STATISTICS OVER ENTIRE INTERVAL

GAMMA - RAY STATISTICS OVER ENTIRE INTERVAL

SONIC STATISTICS OVER ENTIRE INTERVAL

GAMMARAY NOT USED IN CORRECTION OF DOUBTFUL POROSITY DATA
ANALYSIS BY QUASIP MODEL
PERMEABILITY BY TIMUR EQUATION
SP COEFF. FROM STATISTICS
GR COEFF. FROM STATISTICS
SONIC COEFF. FROM STATISTICS

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WASAMP ROUTINE USED

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9408.0	0.0	0.1	100		48	21.54	3.98
9409.0	0.0	0.0	100		44	21.54	3.98
9410.0	0.0	0.0	100		44	21.54	3.98
9411.0	0.0	0.0	100		46	21.54	3.98
9412.0	0.0	0.0	100		38	21.54	3.98
9413.0	0.0	0.3	100		34	21.54	3.98
9414.0	0.0	0.4	100		34	21.54	3.98
9415.0	0.0	0.0	100		47	21.53	3.98
9423.0	0.0	0.0	100		37	21.53	3.98
9424.0	0.0	0.3	100		34	21.53	3.98
9425.0	0.0	0.0	100		42	21.53	3.98
9431.0	0.0	0.0	100		46	21.53	3.98
9432.0	0.0	0.0	100		38	21.53	3.98
9433.0	0.0	0.0	100		42	21.53	3.98
9434.0	0.0	0.0	100		41	21.53	3.98
9435.0	0.0	0.0	100		45	21.53	3.98
9437.0	0.0	0.0	100		47	21.53	3.98
9448.0	0.0	0.0	100		49	21.53	3.98
9455.0	0.0	0.0	100		49	21.53	3.98
9456.0	0.0	0.0	100		47	21.53	3.98
9459.0	0.0	0.0	100		49	21.53	3.98
9462.0	0.0	0.0	100		47	21.53	3.98
9463.0	0.0	0.0	100		48	21.53	3.98
9467.0	0.0	0.0	100		41	21.53	3.98
9468.0	0.0	0.0	100		46	21.53	3.98
9472.0	0.0	0.0	100		41	21.53	3.98
9473.0	0.0	0.0	100		43	21.53	3.98
9474.0	0.0	0.0	100		50	21.53	3.98
9482.0	0.0	0.0	100		48	21.53	3.98
9483.0	0.0	0.0	100		43	21.53	3.98
9484.0	0.0	0.0	100		36	21.53	3.98
9485.0	0.0	0.0	100		36	21.53	3.98
9486.0	0.0	0.0	100		41	21.53	3.98
9493.0	0.0	1.1	100		14	21.53	3.98
9494.0	0.0	2.7	100		9	21.50	3.98
9495.0	0.0	4.0	79		8	21.47	3.97
9496.0	0.0	4.4	96		8	21.43	3.97

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9497.0	0.0	4.7	97		10	21.39	3.97
9498.0	0.0	5.3	84		11	21.34	3.96
9499.0	0.0	4.4	92		16	21.29	3.95
9500.0	0.0	3.2	100		19	21.24	3.95
9501.0	0.0	1.8	100		21	21.22	3.95
9502.0	0.0	0.8	100		23	21.20	3.95
9503.0	0.0	0.3	100		26	21.19	3.95
9504.0	0.0	0.3	100		31	21.19	3.95
9505.0	0.0	0.8	100		26	21.19	3.95
9506.0	0.0	1.6	100		15	21.18	3.95
9507.0	0.0	2.3	100		12	21.16	3.95
9508.0	0.0	3.7	100		8	21.13	3.95
9509.0	0.0	4.4	100		6	21.10	3.95
9510.0	0.0	4.9	100		6	21.05	3.95
9511.0	0.0	5.2	100		5	21.00	3.95
9512.0	0.0	5.0	100		6	20.95	3.95
9513.0	0.0	5.5	94		7	20.90	3.95
9514.0	0.0	5.9	70		8	20.84	3.94
9515.0	0.0	4.9	66		12	20.79	3.92
9516.0	0.0	3.9	69		17	20.74	3.91
9517.0	0.0	3.1	78		17	20.70	3.90
9518.0	0.0	2.4	97		17	20.67	3.89
9519.0	0.0	2.7	99		15	20.65	3.89
9520.0	0.0	3.0	99		16	20.62	3.89
9521.0	0.0	3.1	100		19	20.59	3.89
9522.0	0.0	3.1	100		12	20.56	3.89
9523.0	0.0	3.0	100		10	20.53	3.89
9524.0	0.0	4.1	97		8	20.50	3.89
9525.0	0.0	4.7	76		6	20.45	3.89
9526.0	0.0	4.7	69		8	20.41	3.88
9527.0	0.0	3.7	85		11	20.36	3.86
9528.0	0.0	3.1	92		16	20.33	3.86
9529.0	0.0	3.1	91		15	20.30	3.86
9530.0	0.0	2.0	100		15	20.27	3.85
9531.0	0.0	1.2	100		15	20.25	3.85
9532.0	0.0	1.6	100		18	20.24	3.85
9533.0	0.0	1.3	100		29	20.22	3.85
9534.0	0.0	0.0	100		44	20.21	3.85
9538.0	0.0	0.0	100		37	20.21	3.85
9539.0	0.0	3.3	100		13	20.20	3.85
9540.0	0.0	3.1	100		9	20.17	3.85
9541.0	0.0	3.1	100		10	20.14	3.85
9542.0	0.0	2.6	100		13	20.11	3.85
9543.0	0.0	2.1	98		13	20.08	3.85
9544.0	0.0	1.7	100		16	20.06	3.85
9545.0	0.0	1.5	100		23	20.05	3.85
9546.0	0.0	2.2	100		26	20.03	3.85

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9547.0	0.0	0.0	100		46	20.02	3.85
9561.0	0.0	1.0	100		31	20.02	3.85
9562.0	0.0	0.0	100		39	20.00	3.85
9563.0	0.0	0.0	100		41	20.00	3.85
9564.0	0.0	0.0	100		41	20.00	3.85
9565.0	0.0	0.0	100		43	20.00	3.85
9566.0	0.0	0.0	100		35	20.00	3.85
9567.0	0.0	0.0	100		31	20.00	3.85
9568.0	0.0	0.1	100		26	20.00	3.85
9569.0	0.0	3.7	100		11	20.00	3.85
9570.0	0.0	0.1	100		25	19.95	3.85
9571.0	0.0	0.0	100		36	19.95	3.85
9572.0	0.0	0.0	100		49	19.95	3.85
9579.0	0.0	0.0	100		49	19.95	3.85
9587.0	0.0	0.0	100		38	19.95	3.85
9588.0	0.0	0.1	100		36	19.95	3.85
9589.0	0.0	0.6	100		26	19.95	3.85
9590.0	0.0	0.3	100		24	19.94	3.85
9591.0	0.0	0.1	100		22	19.94	3.85
9592.0	0.0	0.0	100		23	19.94	3.85
9593.0	0.0	0.2	100		19	19.94	3.85
9594.0	0.0	0.4	100		16	19.94	3.85
9595.0	0.0	0.4	100		16	19.93	3.85
9596.0	0.0	0.5	100		16	19.93	3.85
9597.0	0.0	0.3	100		15	19.92	3.85
9598.0	0.0	0.6	100		16	19.92	3.85
9599.0	0.0	0.8	100		16	19.91	3.85
9600.0	0.0	0.5	100		17	19.91	3.85
9601.0	0.0	0.6	100		16	19.90	3.85
9602.0	0.0	0.8	100		17	19.90	3.85
9603.0	0.0	0.7	100		17	19.89	3.85
9604.0	0.0	0.0	100		19	19.88	3.85
9605.0	0.0	0.0	100		43	19.88	3.85
9610.0	0.0	0.0	100		40	19.88	3.85
9611.0	0.0	0.0	100		49	19.88	3.85
9619.0	0.0	0.0	100		41	19.88	3.85
9620.0	0.0	0.0	100		44	19.88	3.85
9621.0	0.0	0.0	100		48	19.88	3.85
9626.0	0.0	0.0	100		36	19.88	3.85
9627.0	0.0	0.0	100		14	19.88	3.85
9628.0	0.0	0.2	100		12	19.88	3.85
9629.0	0.0	0.9	100		11	19.88	3.85

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9630.0	0.0	1.1	100		13	19.87	3.85
9631.0	0.0	1.2	100		14	19.86	3.85
9632.0	0.0	1.2	100		15	19.85	3.85
9633.0	0.0	1.3	100		15	19.83	3.85
9634.0	0.0	1.2	100		17	19.82	3.85
9635.0	0.0	1.0	100		21	19.81	3.85
9636.0	0.0	0.0	100		43	19.80	3.85
9637.0	0.0	0.0	100		49	19.80	3.85
9638.0	0.0	0.0	100		26	19.80	3.85
9639.0	0.0	0.1	100		15	19.80	3.85
9640.0	0.0	0.2	100		23	19.80	3.85
9657.0	0.0	0.0	100		40	19.80	3.85
9658.0	0.0	0.0	100		40	19.80	3.85
9659.0	0.0	0.0	100		50	19.80	3.85
9665.0	0.0	0.3	100		23	19.80	3.85
9666.0	0.0	1.5	100		22	19.79	3.85
9667.0	0.0	3.6	100		18	19.77	3.85
9668.0	0.0	4.2	100		19	19.73	3.85
9669.0	0.0	2.5	100		25	19.69	3.85
9670.0	0.0	0.0	100		36	19.68	3.85
9671.0	0.0	0.0	100		37	19.68	3.85
9672.0	0.0	0.7	100		23	19.68	3.85
9673.0	0.0	0.5	100		19	19.67	3.85
9674.0	0.0	0.2	100		22	19.67	3.85
9675.0	0.0	0.1	100		18	19.66	3.85
9676.0	0.0	0.0	100		17	19.66	3.85
9677.0	0.0	0.0	100		15	19.66	3.85
9678.0	0.0	0.2	100		15	19.66	3.85
9679.0	0.0	0.2	100		13	19.66	3.85
9680.0	0.0	0.1	100		13	19.66	3.85
9681.0	0.0	0.3	100		15	19.66	3.85
9682.0	0.0	1.1	100		19	19.65	3.85
9683.0	0.0	1.9	100		19	19.64	3.85
9684.0	0.0	4.6	100		17	19.61	3.85
9685.0	0.0	2.5	100		23	19.57	3.85
9686.0	0.0	0.0	100		40	19.55	3.85
9687.0	0.0	0.0	100		46	19.55	3.85
9688.0	0.0	0.0	100		46	19.55	3.85
9689.0	0.0	0.1	100		35	19.55	3.85
9690.0	0.0	1.5	100		16	19.55	3.85
9691.0	0.0	1.4	100		20	19.53	3.85
9692.0	0.0	0.0	100		36	19.52	3.85
9693.0	0.0	0.1	100		35	19.52	3.85
9694.0	0.0	1.9	100		27	19.51	3.85
9695.0	0.0	2.8	100		21	19.49	3.85
9696.0	0.0	1.0	100		28	19.46	3.85

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9697.0	0.0	0.0	100		36	19.46	3.85
9698.0	0.0	0.0	100		41	19.46	3.85
9710.0	0.0	0.0	100		48	19.46	3.85
9713.0	0.0	0.0	100		50	19.46	3.85
9725.0	0.0	0.0	100		41	19.46	3.85
9726.0	0.0	0.4	100		34	19.46	3.85
9727.0	0.0	0.7	100		19	19.46	3.85
9728.0	0.0	1.0	100		16	19.45	3.85
9729.0	0.0	1.1	100		16	19.44	3.85
9730.0	0.0	1.3	100		17	19.43	3.85
9731.0	0.0	1.1	100		16	19.41	3.85
9732.0	0.0	0.9	100		15	19.40	3.85
9733.0	0.0	1.3	100		14	19.39	3.85
9734.0	0.0	2.3	100		11	19.38	3.85
9735.0	0.0	3.2	100		11	19.35	3.85
9736.0	0.0	1.8	100		12	19.32	3.85
9737.0	0.0	0.7	100		16	19.31	3.85
9738.0	0.0	0.9	100		17	19.30	3.85
9739.0	0.0	1.6	100		15	19.29	3.85
9740.0	0.0	1.9	100		15	19.28	3.85
9741.0	0.0	1.6	100		15	19.26	3.85
9742.0	0.0	1.0	100		22	19.24	3.85
9743.0	0.0	0.0	100		49	19.24	3.85
9751.0	0.0	0.0	100		44	19.24	3.85
9752.0	0.0	0.2	100		38	19.24	3.85
9753.0	0.0	0.3	100		37	19.23	3.85
9754.0	0.0	0.0	100		45	19.23	3.85
9767.0	0.0	0.0	100		44	19.23	3.85
9768.0	0.0	0.0	100		49	19.23	3.85
9777.0	0.0	0.0	100		45	19.23	3.85
9778.0	0.0	0.0	100		39	19.23	3.85
9792.0	0.0	0.0	100		45	19.23	3.85
9793.0	0.0	0.0	100		40	19.23	3.85
9797.0	0.0	0.0	100		48	19.23	3.85
9798.0	0.0	0.0	100		43	19.23	3.85
9799.0	0.0	0.0	100		42	19.23	3.85
9800.0	0.0	0.0	100		45	19.23	3.85
9818.0	0.0	0.0	100		48	19.23	3.85
9819.0	0.0	0.4	100		32	19.23	3.85

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9820.0	0.0	1.4	100		19	19.22	3.85
9821.0	0.0	0.9	100		24	19.21	3.85
9822.0	0.0	1.1	100		18	19.20	3.85
9823.0	0.0	1.5	100		17	19.19	3.85
9824.0	0.0	1.2	100		29	19.17	3.85
9825.0	0.0	1.0	100		24	19.17	3.85
9826.0	0.0	2.7	100		16	19.15	3.85
9827.0	0.0	3.6	100		18	19.12	3.85
9828.0	0.0	0.0	100		36	19.09	3.85
9829.0	0.0	0.0	100		40	19.09	3.85
9830.0	0.0	0.6	100		25	19.09	3.85
9831.0	0.0	0.9	100		19	19.08	3.85
9832.0	0.0	0.1	100		24	19.08	3.85
9838.0	0.0	0.9	100		20	19.08	3.85
9839.0	0.0	2.6	100		15	19.06	3.85
9840.0	0.0	2.9	100		14	19.04	3.85
9841.0	0.0	3.4	100		14	19.01	3.85
9842.0	0.0	4.0	100		12	18.97	3.85
9843.0	0.0	3.8	100		12	18.93	3.85
9844.0	0.0	3.0	100		13	18.90	3.85
9845.0	0.0	3.0	100		13	18.87	3.85
9846.0	0.0	3.8	65		16	18.84	3.85
9847.0	0.0	2.8	100		24	18.79	3.83
9848.0	0.0	0.0	100		40	18.78	3.83
9849.0	0.0	0.0	100		44	18.78	3.83
9856.0	0.0	0.0	100		45	18.78	3.83
9857.0	0.0	0.0	100		42	18.78	3.83
9863.0	0.0	0.0	100		47	18.78	3.83
9867.0	0.0	0.0	100		46	18.78	3.83
9885.0	0.0	0.0	100		49	18.78	3.83
9886.0	0.0	0.0	100		46	18.78	3.83
9887.0	0.0	0.0	100		43	18.78	3.83
9888.0	0.0	0.0	100		48	18.78	3.83
9898.0	0.0	0.0	100		44	18.78	3.83
9899.0	0.0	0.8	100		23	18.78	3.83
9900.0	0.0	1.1	100		23	18.77	3.83
9901.0	0.0	0.0	100		37	18.76	3.83
9902.0	0.0	0.0	100		46	18.76	3.83
9913.0	0.0	0.0	100		48	18.76	3.83
9914.0	0.0	0.0	100		47	18.76	3.83
9915.0	0.0	0.0	100		44	18.76	3.83

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9916.0	0.0	0.0	100		42	18.76	3.83
9917.0	0.0	0.0	100		47	18.76	3.83
9929.0	0.0	0.0	100		48	18.76	3.83
9930.0	0.0	0.0	100		40	18.76	3.83
9931.0	0.0	0.0	100		42	18.76	3.83
9950.0	0.0	0.0	100		47	18.76	3.83
9951.0	0.0	0.0	100		50	18.76	3.83
9952.0	0.0	0.0	100		49	18.76	3.83
9953.0	0.0	0.0	100		47	18.76	3.83
9954.0	0.0	0.0	100		39	18.76	3.83
9955.0	0.0	0.0	100		39	18.76	3.83
9956.0	0.0	0.0	100		45	18.76	3.83
9959.0	0.0	0.0	100		49	18.76	3.83
9960.0	0.0	0.0	100		41	18.76	3.83
9961.0	0.0	0.0	100		49	18.76	3.83
9963.0	0.0	0.0	100		45	18.76	3.83
9964.0	0.0	0.0	100		44	18.76	3.83
9965.0	0.0	0.0	100		41	18.76	3.83
9966.0	0.0	0.0	100		44	18.76	3.83
9969.0	0.0	0.0	100		49	18.76	3.83
9996.0	0.0	0.0	100		40	18.76	3.83
9997.0	0.0	0.0	100		38	18.76	3.83
9998.0	0.0	1.3	100		20	18.76	3.83
9999.0	0.0	0.9	100		26	18.75	3.83
10000.0	0.0	0.0	100		44	18.74	3.83
10005.0	0.0	0.0	100		45	18.74	3.83
10006.0	0.0	0.0	100		50	18.74	3.83
10016.0	0.0	0.0	100		49	18.74	3.83
10023.0	0.0	0.0	100		48	18.74	3.83
10024.0	0.0	0.0	100		50	18.74	3.83
10031.0	0.0	0.0	100		46	18.74	3.83
10032.0	0.0	0.0	100		49	18.74	3.83
10033.0	0.0	0.0	100		48	18.74	3.83
10034.0	0.0	0.0	100		38	18.74	3.83
10035.0	0.0	0.9	100		32	18.74	3.83
10036.0	0.0	0.0	100		41	18.73	3.83
10037.0	0.0	0.0	100		45	18.73	3.83
10038.0	0.0	0.0	100		48	18.73	3.83

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10042.0	0.0	0.1	100		43	18.73	3.83
10043.0	0.0	0.2	100		38	18.73	3.83
10044.0	0.0	0.3	100		36	18.73	3.83
10045.0	0.0	0.0	100		45	18.72	3.83
10046.0	0.0	0.0	100		48	18.72	3.83
10049.0	0.0	0.0	100		48	18.72	3.83
10050.0	0.0	0.0	100		43	18.72	3.83
10051.0	0.0	0.0	100		43	18.72	3.83
10068.0	0.0	0.0	100		47	18.72	3.83
10069.0	0.0	0.4	100		34	18.72	3.83
10070.0	0.0	0.1	100		35	18.72	3.83
10071.0	0.0	1.7	100		18	18.72	3.83
10072.0	0.0	1.9	100		12	18.70	3.83
10073.0	0.0	2.1	100		12	18.68	3.83
10074.0	0.0	2.0	100		10	18.66	3.83
10075.0	0.0	4.1	100		9	18.64	3.83
10076.0	0.0	5.3	100		9	18.59	3.83
10077.0	0.0	5.9	100		9	18.54	3.83
10078.0	0.0	4.8	100		10	18.48	3.83
10079.0	0.0	2.6	100		12	18.44	3.83
10080.0	0.0	2.4	100		15	18.41	3.83
10081.0	0.0	2.5	100		9	18.39	3.83
10082.0	0.0	3.6	100		7	18.36	3.83
10083.0	0.0	4.3	100		7	18.33	3.83
10084.0	0.0	5.7	100		9	18.28	3.83
10085.0	0.0	5.6	100		12	18.23	3.83
10086.0	0.0	3.8	100		20	18.17	3.83
10087.0	0.0	2.6	100		22	18.14	3.83
10088.0	0.0	4.3	100		15	18.11	3.83
10089.0	0.0	4.9	100		12	18.07	3.83
10090.0	0.0	3.8	100		14	18.02	3.83
10091.0	0.0	3.2	100		14	17.99	3.83
10092.0	0.0	2.9	100		16	17.96	3.83
10093.0	0.0	0.2	100		35	17.93	3.83
10094.0	0.0	0.0	100		40	17.93	3.83
10095.0	0.0	0.3	100		34	17.93	3.83
10096.0	0.0	1.7	100		13	17.92	3.83
10097.0	0.0	2.3	100		11	17.90	3.83
10098.0	0.0	2.3	100		12	17.88	3.83
10099.0	0.0	1.9	100		14	17.86	3.83
10100.0	0.0	2.1	100		16	17.84	3.83
10101.0	0.0	1.9	100		14	17.82	3.83
10102.0	0.0	1.9	100		15	17.80	3.83
10103.0	0.0	1.8	100		17	17.78	3.83
10104.0	0.0	1.1	100		26	17.76	3.83

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10105.0	0.0	0.0	100		45	17.76	3.83
10112.0	0.0	0.6	100		22	17.76	3.83
10113.0	0.0	1.4	100		19	17.75	3.83
10114.0	0.0	1.5	100		26	17.74	3.83
10115.0	0.0	2.1	100		26	17.72	3.83
10116.0	0.0	2.9	100		24	17.70	3.83
10117.0	0.0	3.1	100		22	17.67	3.83
10118.0	0.0	2.8	100		20	17.64	3.83
10119.0	0.0	1.9	100		17	17.61	3.83
10120.0	0.0	0.0	100		36	17.59	3.83
10121.0	0.0	0.0	100		48	17.59	3.83
10127.0	0.0	0.0	100		40	17.59	3.83
10128.0	0.0	0.6	100		33	17.59	3.83
10129.0	0.0	0.0	100		40	17.59	3.83
10130.0	0.0	0.0	100		48	17.59	3.83
10148.0	0.0	0.0	100		50	17.59	3.83
10149.0	0.0	0.0	100		46	17.59	3.83
10162.0	0.0	0.0	100		43	17.59	3.83
10163.0	0.0	0.0	100		45	17.59	3.83
10164.0	0.0	0.0	100		50	17.59	3.83
10169.0	0.0	0.0	100		49	17.59	3.83
10170.0	0.0	0.0	100		47	17.59	3.83
10174.0	0.0	0.0	100		47	17.59	3.83
10175.0	0.0	0.0	100		42	17.59	3.83
10176.0	0.0	0.0	100		44	17.59	3.83
10190.0	0.0	0.0	100		44	17.59	3.83
10205.0	0.0	0.0	100		48	17.59	3.83
10206.0	0.0	0.0	100		39	17.59	3.83
10207.0	0.0	0.0	100		39	17.59	3.83
10208.0	0.0	1.3	100		24	17.59	3.83
10209.0	0.0	1.8	100		20	17.57	3.83
10210.0	0.0	1.8	100		22	17.55	3.83
10211.0	0.0	0.7	100		32	17.54	3.83
10212.0	0.0	0.1	100		36	17.53	3.83
10213.0	0.0	1.4	100		25	17.53	3.83
10214.0	0.0	0.2	100		35	17.52	3.83
10215.0	0.0	0.0	100		41	17.52	3.83
10216.0	0.0	0.0	100		39	17.52	3.83
10217.0	0.0	0.0	100		42	17.52	3.83
10224.0	0.0	0.0	100		43	17.52	3.83

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10235.0	0.0	0.0	100		41	17.52	3.83
10236.0	0.0	0.0	100		43	17.52	3.83
10237.0	0.0	0.0	100		42	17.52	3.83
10238.0	0.0	0.0	100		37	17.52	3.83
10239.0	0.0	0.0	100		36	17.52	3.83
10240.0	0.0	0.1	100		35	17.52	3.83
10241.0	0.0	1.7	100		22	17.51	3.83
10242.0	0.0	2.4	100		19	17.49	3.83
10243.0	0.0	2.8	100		22	17.47	3.83
10244.0	0.0	3.4	100		21	17.44	3.83
10245.0	0.0	4.1	100		19	17.40	3.83
10246.0	0.0	1.6	100		28	17.36	3.83
10247.0	0.0	0.1	100		39	17.36	3.83
10248.0	0.0	0.1	100		37	17.36	3.83
10249.0	0.0	3.0	100		23	17.35	3.83
10250.0	0.0	4.9	100		18	17.31	3.83
10251.0	0.0	3.9	100		21	17.26	3.83
10252.0	0.0	1.3	100		29	17.23	3.83
10253.0	0.0	2.0	100		21	17.22	3.83
10254.0	0.0	1.7	100		20	17.20	3.83
10255.0	0.0	1.8	100		20	17.18	3.83
10256.0	0.0	1.9	100		19	17.16	3.83
10257.0	0.0	2.3	100		18	17.14	3.83
10258.0	0.0	2.4	100		18	17.12	3.83
10259.0	0.0	2.4	100		22	17.09	3.83
10260.0	0.0	0.3	100		47	17.07	3.83
10270.0	0.0	0.0	100		45	17.07	3.83
10271.0	0.0	0.2	100		35	17.07	3.83
10272.0	0.0	0.3	100		33	17.06	3.83
10273.0	0.0	0.2	100		35	17.06	3.83
10274.0	0.0	0.6	100		31	17.06	3.83
10275.0	0.0	5.3	84		17	17.04	3.83
10276.0	0.0	3.3	100		13	17.00	3.83
10277.0	0.1	7.6	100		0	16.96	3.83
10278.0	4	11.2	37	0.3	6	16.87	3.80
10279.0	2	10.0	41	0.1	5	16.76	3.73
10280.0	0.2	7.4	57		0	16.67	3.68
10281.0	0.0	6.0	67		2	16.59	3.65
10282.0	0.1	6.2	63		5	16.54	3.64
10283.0	0.6	8.2	45		9	16.47	3.61
10284.0	3	10.5	38		12	16.38	3.56
10285.0	0.0	3.8	100		15	16.29	3.50
10286.0	0.0	0.0	100		38	16.26	3.50
10290.0	0.0	0.0	100		48	16.26	3.50
10300.0	0.0	0.0	100		42	16.26	3.50

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10301.0	0.0	0.0	100		46	16.26	3.50
10302.0	0.0	0.0	100		48	16.26	3.50
10303.0	0.0	0.0	100		39	16.26	3.50
10304.0	0.0	1.2	100		28	16.26	3.50
10305.0	0.0	1.3	100		26	16.25	3.50
10306.0	0.0	2.3	100		22	16.23	3.50
10307.0	0.0	3.2	100		17	16.21	3.50
10308.0	0.0	3.8	100		16	16.17	3.50
10309.0	0.0	3.8	100		18	16.14	3.50
10310.0	0.0	4.3	100		19	16.10	3.50
10311.0	0.0	4.6	100		17	16.05	3.50
10312.0	0.0	4.2	100		19	16.01	3.50
10313.0	0.0	3.6	100		20	15.97	3.50
10314.0	0.0	3.2	100		23	15.93	3.50
10315.0	0.0	0.0	100		39	15.91	3.50
10319.0	0.0	0.0	100		42	15.91	3.50
10320.0	0.0	0.0	100		39	15.91	3.50
10321.0	0.0	0.0	100		42	15.91	3.50
10325.0	0.0	0.0	100		47	15.91	3.50
10326.0	0.0	0.0	100		40	15.91	3.50
10327.0	0.0	1.3	100		25	15.91	3.50
10328.0	0.0	1.5	100		23	15.89	3.50
10329.0	0.0	0.2	100		35	15.88	3.50
10330.0	0.0	2.1	100		21	15.88	3.50
10331.0	0.0	4.0	100		18	15.85	3.50
10332.0	0.0	4.1	100		20	15.81	3.50
10333.0	0.0	2.6	100		25	15.77	3.50
10334.0	0.0	1.4	100		29	15.75	3.50
10335.0	0.0	2.3	100		26	15.73	3.50
10336.0	0.0	3.0	100		23	15.71	3.50
10337.0	0.0	2.4	100		25	15.68	3.50
10338.0	0.0	2.1	100		26	15.66	3.50
10339.0	0.0	3.4	100		21	15.63	3.50
10340.0	0.0	4.1	100		18	15.60	3.50
10341.0	0.0	4.0	100		18	15.56	3.50
10342.0	0.0	3.0	100		16	15.52	3.50
10343.0	0.0	3.2	100		14	15.49	3.50
10344.0	0.0	3.9	100		13	15.45	3.50
10345.0	0.0	4.6	100		12	15.41	3.50
10346.0	0.0	5.5	100		12	15.37	3.50
10347.0	0.0	4.9	100		14	15.31	3.50
10348.0	0.0	4.7	100		13	15.26	3.50
10349.0	0.0	4.7	100		11	15.22	3.50
10350.0	0.0	4.4	100		11	15.17	3.50
10351.0	0.0	4.4	100		12	15.13	3.50
10352.0	0.0	5.5	100		12	15.08	3.50

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10353.0	0.0	6.2	100		11	15.02	3.50
10354.0	0.0	4.8	100		13	14.96	3.50
10355.0	0.0	3.8	100		15	14.92	3.50
10356.0	0.0	3.2	100		16	14.88	3.50
10357.0	0.0	2.1	100		16	14.85	3.50
10358.0	0.0	1.0	100		23	14.84	3.50
10359.0	0.0	1.7	100		27	14.82	3.50
10360.0	0.0	0.2	100		39	14.81	3.50
10374.0	0.0	0.0	100		47	14.81	3.50
10375.0	0.0	0.0	100		41	14.81	3.50
10376.0	0.0	0.0	100		40	14.81	3.50
10377.0	0.0	0.0	100		40	14.81	3.50
10378.0	0.0	0.0	100		45	14.81	3.50
10392.0	0.0	0.0	100		46	14.81	3.50
10393.0	0.0	0.0	100		50	14.81	3.50
10423.0	0.0	0.0	100		46	14.81	3.50
10424.0	0.0	0.0	100		39	14.81	3.50
10486.0	0.0	0.0	100		46	14.81	3.50
10487.0	0.0	0.0	100		41	14.81	3.50
10488.0	0.0	0.0	100		41	14.81	3.50
10510.0	0.0	0.0	100		47	14.81	3.50
10511.0	0.0	0.0	100		41	14.81	3.50
10512.0	0.0	0.0	100		40	14.81	3.50
10513.0	0.0	0.0	100		40	14.81	3.50
10514.0	0.0	0.0	100		42	14.81	3.50
10515.0	0.0	0.0	100		45	14.81	3.50
10516.0	0.0	0.0	100		48	14.81	3.50
10526.0	0.0	0.0	100		50	14.81	3.50
10527.0	0.0	0.0	100		39	14.81	3.50
10528.0	0.0	4.2	100		15	14.79	3.50
10529.0	0.0	2.3	100		16	14.76	3.50
10530.0	0.0	2.7	100		15	14.73	3.50
10531.0	0.0	3.4	100		14	14.71	3.50
10532.0	0.0	4.9	100		8	14.67	3.50
10533.0	0.0	4.6	100		10	14.62	3.50
10534.0	0.0	4.4	100		11	14.58	3.50
10535.0	0.0	5.5	94		7	14.53	3.50
10536.0	0.2	7.3	66		5	14.47	3.49
10537.0	0.2	7.6	64		5	14.40	3.47
10538.0	0.3	7.9	61		6	14.32	3.44
10539.0	0.3	8.0	60		6	14.24	3.41
10540.0	0.3	7.9	61		6	14.16	3.38

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10541.0	0.5	8.6	57		6	14.08	3.34
10542.0	0.3	7.8	60		9	14.00	3.31
10543.0	0.2	7.4	60		11	13.92	3.28
10544.0	0.0	6.9	100		7	13.85	3.25
10545.0	0.0	5.3	71		13	13.78	3.24
10546.0	0.0	5.0	74		14	13.73	3.23
10547.0	0.0	4.8	96		15	13.68	3.22
10548.0	0.0	2.3	100		25	13.63	3.21
10549.0	0.0	0.0	100		43	13.62	3.21
10550.0	0.0	0.0	100		46	13.62	3.21
10551.0	0.0	0.0	100		45	13.62	3.21
10552.0	0.0	0.0	100		42	13.62	3.21
10553.0	0.0	0.0	100		41	13.62	3.21
10554.0	0.0	0.1	100		42	13.62	3.21
10555.0	0.0	0.0	100		44	13.62	3.21
10556.0	0.0	0.0	100		45	13.62	3.21
10557.0	0.0	0.0	100		43	13.62	3.21
10558.0	0.0	0.0	100		45	13.62	3.21
10559.0	0.0	0.0	100		47	13.62	3.21
10560.0	0.0	0.0	100		48	13.62	3.21
10561.0	0.0	0.0	100		48	13.62	3.21
10577.0	0.0	0.0	100		43	13.62	3.21
10578.0	0.0	0.0	100		43	13.62	3.21
10582.0	0.0	0.0	100		46	13.62	3.21
10583.0	0.0	0.0	100		37	13.62	3.21
10584.0	0.0	0.0	100		36	13.62	3.21
10585.0	0.0	0.0	100		36	13.62	3.21
10586.0	0.0	0.0	100		37	13.62	3.21
10587.0	0.0	0.0	100		42	13.62	3.21
10598.0	0.0	0.0	100		46	13.62	3.21
10599.0	0.0	0.0	100		40	13.62	3.21
10600.0	0.0	0.0	100		37	13.62	3.21
10601.0	0.0	0.0	100		36	13.62	3.21
10602.0	0.0	3.4	100		17	13.61	3.21
10603.0	0.0	5.5	100		14	13.57	3.21
10604.0	0.0	6.4	100		9	13.51	3.21
10605.0	0.0	3.8	100		12	13.45	3.21
10606.0	0.0	2.3	100		12	13.42	3.21
10607.0	0.0	2.0	100		13	13.40	3.21
10608.0	0.0	2.1	100		16	13.38	3.21
10609.0	0.0	4.2	100		17	13.35	3.21
10610.0	0.0	0.0	100		37	13.32	3.21
10611.0	0.0	0.0	100		49	13.32	3.21
10633.0	0.0	0.0	100		48	13.32	3.21

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10634.0	0.0	0.0	100		39	13.32	3.21
10635.0	0.0	0.0	100		36	13.32	3.21
10636.0	0.0	0.0	100		38	13.32	3.21
10637.0	0.0	0.0	100		37	13.32	3.21
10638.0	0.0	0.4	100		36	13.32	3.21
10639.0	0.0	0.4	100		37	13.31	3.21
10640.0	0.0	0.0	100		39	13.31	3.21
10641.0	0.0	0.0	100		38	13.31	3.21
10642.0	0.0	0.0	100		39	13.31	3.21
10643.0	0.0	0.0	100		40	13.31	3.21
10644.0	0.0	0.0	100		39	13.31	3.21
10645.0	0.0	0.0	100		39	13.31	3.21
10646.0	0.0	0.0	100		40	13.31	3.21
10647.0	0.0	0.0	100		41	13.31	3.21
10648.0	0.0	0.0	100		41	13.31	3.21
10649.0	0.0	0.0	100		40	13.31	3.21
10650.0	0.0	0.0	100		42	13.31	3.21
10651.0	0.0	0.0	100		43	13.31	3.21
10652.0	0.0	0.0	100		40	13.31	3.21
10653.0	0.0	0.0	100		40	13.31	3.21
10654.0	0.0	0.0	100		40	13.31	3.21
10655.0	0.0	0.0	100		42	13.31	3.21
10656.0	0.0	0.0	100		43	13.31	3.21
10657.0	0.0	0.1	100		37	13.31	3.21
10658.0	0.0	4.8	100		13	13.29	3.21
10659.0	0.0	4.7	100		14	13.24	3.21
10660.0	0.0	2.7	100		16	13.20	3.21
10661.0	0.0	2.6	100		16	13.18	3.21
10662.0	0.0	3.4	100		22	13.14	3.21
10663.0	0.0	0.4	100		34	13.12	3.21
10664.0	0.0	0.2	100		38	13.12	3.21
10665.0	0.0	0.3	100		38	13.11	3.21
10666.0	0.0	2.9	100		23	13.11	3.21
10667.0	0.0	4.6	100		14	13.08	3.21
10668.0	0.0	4.3	100		16	13.03	3.21
10669.0	0.0	3.6	100		19	12.99	3.21
10670.0	0.0	2.6	100		25	12.95	3.21
10671.0	0.0	2.0	100		20	12.93	3.21
10672.0	0.0	2.0	100		18	12.91	3.21
10673.0	0.0	2.3	100		21	12.89	3.21
10674.0	0.0	0.2	100		35	12.87	3.21
10675.0	0.0	0.1	100		37	12.87	3.21
10676.0	0.0	1.7	100		20	12.87	3.21
10677.0	0.0	2.0	100		18	12.85	3.21
10678.0	0.0	2.0	100		21	12.83	3.21
10679.0	0.0	1.8	100		24	12.81	3.21
10680.0	0.0	1.9	100		22	12.79	3.21
10681.0	0.0	1.9	100		21	12.77	3.21

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10682.0	0.0	1.9	100		23	12.75	3.21
10683.0	0.0	1.7	100		28	12.73	3.21
10684.0	0.0	0.7	100		32	12.72	3.21
10685.0	0.0	0.3	100		37	12.72	3.21
10686.0	0.0	0.2	100		38	12.71	3.21
10687.0	0.0	4.8	100		12	12.70	3.21
10688.0	0.0	5.1	100		8	12.65	3.21
10689.0	0.0	5.3	100		8	12.60	3.21
10690.0	0.0	5.7	100		8	12.54	3.21
10691.0	0.0	5.9	100		8	12.49	3.21
10692.0	0.0	5.4	100		11	12.43	3.21
10693.0	0.0	5.9	100		11	12.37	3.21
10694.0	0.0	5.8	100		11	12.31	3.21
10695.0	0.0	4.8	100		13	12.26	3.21
10696.0	0.0	5.5	100		13	12.21	3.21
10697.0	0.0	4.7	100		14	12.15	3.21
10698.0	0.0	3.2	100		13	12.11	3.21
10699.0	0.0	3.8	100		10	12.08	3.21
10700.0	0.0	5.4	100		10	12.03	3.21
10701.0	0.0	4.8	100		13	11.98	3.21
10702.0	0.0	3.4	100		15	11.94	3.21
10703.0	0.0	3.0	100		14	11.91	3.21
10704.0	0.0	3.0	100		14	11.87	3.21
10705.0	0.0	2.4	100		17	11.85	3.21
10706.0	0.0	2.3	100		19	11.82	3.21
10707.0	0.0	2.3	100		19	11.80	3.21
10708.0	0.0	2.3	100		17	11.78	3.21
10709.0	0.0	2.3	100		15	11.75	3.21
10710.0	0.0	2.2	100		16	11.73	3.21
10711.0	0.0	2.1	100		18	11.71	3.21
10712.0	0.0	2.1	100		17	11.69	3.21
10713.0	0.0	2.0	100		19	11.67	3.21
10714.0	0.0	0.2	100		36	11.65	3.21
10715.0	0.0	0.1	100		44	11.65	3.21
10721.0	0.0	0.0	100		46	11.64	3.21
10722.0	0.0	0.0	100		43	11.64	3.21
10723.0	0.0	0.0	100		39	11.64	3.21
10724.0	0.0	0.0	100		39	11.64	3.21
10725.0	0.0	0.9	100		25	11.64	3.21
10726.0	0.0	1.0	100		18	11.64	3.21
10727.0	0.0	1.4	100		16	11.62	3.21
10728.0	0.0	1.6	100		21	11.61	3.21
10729.0	0.0	1.4	100		28	11.59	3.21
10730.0	0.0	1.6	100		22	11.58	3.21
10731.0	0.0	1.3	100		23	11.56	3.21
10732.0	0.0	1.5	100		17	11.55	3.21
10733.0	0.0	2.7	100		17	11.53	3.21

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10734.0	0.0	2.5	100		21	11.50	3.21
10735.0	0.0	2.0	100		26	11.48	3.21
10736.0	0.0	2.1	100		26	11.46	3.21
10737.0	0.0	3.5	100		22	11.44	3.21
10738.0	0.0	3.3	100		16	11.40	3.21
10739.0	0.0	2.7	100		15	11.37	3.21
10740.0	0.0	2.2	100		22	11.35	3.21
10741.0	0.0	1.0	100		32	11.32	3.21
10742.0	0.0	0.0	100		45	11.32	3.21
10743.0	0.0	1.1	100		24	11.32	3.21
10744.0	0.0	0.1	100		35	11.31	3.21
10745.0	0.0	1.2	100		25	11.31	3.21
10746.0	0.0	1.4	100		22	11.29	3.21
10747.0	0.0	1.5	100		22	11.28	3.21
10748.0	0.0	1.3	100		27	11.26	3.21
10749.0	0.0	1.2	100		22	11.25	3.21
10750.0	0.0	1.3	100		21	11.24	3.21
10751.0	0.0	1.4	100		26	11.23	3.21
10752.0	0.0	1.3	100		27	11.21	3.21
10753.0	0.0	0.0	100		37	11.20	3.21
10754.0	0.0	0.0	100		42	11.20	3.21
10755.0	0.0	0.1	100		45	11.20	3.21
10758.0	0.0	0.2	100		49	11.20	3.21
10759.0	0.0	0.2	100		39	11.20	3.21
10760.0	0.0	1.4	100		24	11.19	3.21
10761.0	0.0	0.1	100		35	11.17	3.21
10762.0	0.0	0.1	100		37	11.17	3.21
10763.0	0.0	0.1	100		37	11.17	3.21
10764.0	0.0	0.1	100		40	11.17	3.21
10765.0	0.0	0.1	100		35	11.17	3.21
10766.0	0.0	1.4	100		25	11.17	3.21
10767.0	0.0	1.5	100		23	11.15	3.21
10768.0	0.0	0.1	100		37	11.14	3.21
10769.0	0.0	0.1	100		37	11.14	3.21
10770.0	0.0	1.6	100		23	11.14	3.21
10771.0	0.0	1.8	100		18	11.12	3.21
10772.0	0.0	2.0	100		19	11.11	3.21
10773.0	0.0	2.2	100		16	11.08	3.21
10774.0	0.0	2.5	100		15	11.06	3.21
10775.0	0.0	2.6	100		17	11.04	3.21
10776.0	0.0	2.4	100		17	11.01	3.21
10777.0	0.0	2.3	100		15	10.99	3.21
10778.0	0.0	2.7	100		16	10.96	3.21
10779.0	0.0	2.4	100		15	10.94	3.21
10780.0	0.0	2.3	100		17	10.91	3.21
10781.0	0.0	2.1	100		19	10.89	3.21
10782.0	0.0	1.5	100		25	10.87	3.21

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10783.0	0.0	0.0	100		41	10.86	3.21
10784.0	0.0	0.0	100		40	10.86	3.21
10785.0	0.0	0.5	100		33	10.86	3.21
10786.0	0.0	0.7	100		28	10.86	3.21
10787.0	0.0	0.9	100		23	10.85	3.21
10788.0	0.0	2.0	100		20	10.84	3.21
10789.0	0.0	1.7	100		28	10.82	3.21
10790.0	0.0	0.1	100		39	10.81	3.21
10791.0	0.0	0.0	100		45	10.81	3.21
10810.0	0.0	0.0	100		45	10.80	3.21
10811.0	0.0	0.7	100		32	10.80	3.21
10812.0	0.0	2.1	100		25	10.79	3.21
10813.0	0.0	3.4	100		22	10.77	3.21
10814.0	0.0	3.0	100		23	10.73	3.21
10815.0	0.0	1.6	100		28	10.70	3.21
10816.0	0.0	0.6	100		34	10.69	3.21
10817.0	0.0	0.7	100		33	10.69	3.21
10818.0	0.0	1.0	100		31	10.68	3.21
10819.0	0.0	0.5	100		33	10.67	3.21
10820.0	0.0	0.0	100		38	10.67	3.21
10821.0	0.0	0.0	100		39	10.67	3.21
10822.0	0.0	0.1	100		41	10.67	3.21
10823.0	0.0	0.0	100		41	10.67	3.21
10824.0	0.0	0.0	100		42	10.67	3.21
10825.0	0.0	0.0	100		45	10.67	3.21
10826.0	0.0	0.0	100		48	10.67	3.21
10832.0	0.0	0.0	100		49	10.67	3.21
10833.0	0.0	0.0	100		49	10.67	3.21
10834.0	0.0	0.0	100		44	10.67	3.21
10835.0	0.0	0.1	100		37	10.67	3.21
10836.0	0.0	0.0	100		37	10.66	3.21
10837.0	0.0	0.0	100		39	10.66	3.21
10838.0	0.0	0.0	100		44	10.66	3.21
10839.0	0.0	0.0	100		38	10.66	3.21
10840.0	0.0	2.0	100		21	10.66	3.21
10841.0	0.0	3.5	100		16	10.63	3.21
10842.0	0.0	4.2	100		17	10.60	3.21
10843.0	0.0	3.0	100		20	10.56	3.21
10844.0	0.0	2.5	100		15	10.53	3.21
10845.0	0.0	2.6	100		15	10.51	3.21
10846.0	0.0	3.3	100		20	10.48	3.21
10847.0	0.0	0.3	100		37	10.45	3.21
10848.0	0.0	0.1	100		40	10.45	3.21
10849.0	0.0	0.1	100		40	10.45	3.21
10850.0	0.0	0.0	100		44	10.45	3.21
10851.0	0.0	1.7	100		24	10.45	3.21

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10852.0	0.0	4.1	100		19	10.42	3.21
10853.0	0.0	2.1	100		26	10.38	3.21
10854.0	0.0	0.1	100		38	10.37	3.21
10855.0	0.0	0.5	100		34	10.37	3.21
10856.0	0.0	1.6	100		28	10.36	3.21
10857.0	0.0	0.5	100		34	10.35	3.21
10858.0	0.0	0.0	100		41	10.34	3.21
10859.0	0.0	0.0	100		41	10.34	3.21
10860.0	0.0	0.0	100		45	10.34	3.21
10896.0	0.0	0.0	100		45	10.34	3.21
10897.0	0.0	0.4	100		36	10.34	3.21
10898.0	0.0	0.4	100		36	10.34	3.21
10899.0	0.0	0.4	100		35	10.34	3.21
10900.0	0.0	0.1	100		37	10.33	3.21
10901.0	0.0	0.2	100		36	10.33	3.21
10902.0	0.0	0.0	100		42	10.33	3.21
10903.0	0.0	0.0	100		36	10.33	3.21
10904.0	0.0	1.4	100		16	10.33	3.21
10905.0	0.0	2.6	100		15	10.31	3.21
10906.0	0.0	1.3	100		28	10.29	3.21
10907.0	0.0	0.9	100		21	10.28	3.21
10908.0	0.0	2.6	100		16	10.26	3.21
10909.0	0.0	3.5	100		16	10.24	3.21
10910.0	0.0	2.3	100		24	10.20	3.21
10911.0	0.0	0.0	100		38	10.19	3.21
10912.0	0.0	1.1	100		20	10.19	3.21
10913.0	0.0	4.5	88		19	10.16	3.21
10914.0	0.0	4.3	100		20	10.12	3.21
10915.0	0.0	2.0	100		27	10.08	3.21
10916.0	0.0	0.1	100		37	10.07	3.21
10917.0	0.0	0.6	100		32	10.07	3.21
10918.0	0.0	0.9	100		17	10.06	3.21
10919.0	0.0	1.4	100		13	10.05	3.21
10920.0	0.0	0.4	100		18	10.04	3.21
10926.0	0.0	0.0	100		49	10.04	3.21
10927.0	0.0	0.1	100		45	10.04	3.21
10928.0	0.0	0.0	100		46	10.04	3.21
10945.0	0.0	0.0	100		46	10.04	3.21
10951.0	0.0	0.0	100		43	10.04	3.21
10952.0	0.0	1.3	100		22	10.04	3.21
10953.0	0.0	0.2	100		36	10.02	3.21
10954.0	0.0	1.4	100		29	10.02	3.21
10955.0	0.0	3.7	100		17	10.00	3.21
10956.0	0.0	4.1	98		13	9.96	3.21

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10957.0	0.0	4.5	96		9	9.92	3.21
10958.0	0.0	3.9	99		10	9.88	3.21
10959.0	0.0	4.0	98		11	9.84	3.21
10960.0	0.0	5.0	76		10	9.80	3.21
10961.0	0.1	5.7	62		9	9.74	3.19
10962.0	0.1	5.7	61		10	9.69	3.17
10963.0	0.1	6.2	58		5	9.63	3.14
10964.0	0.2	6.5	48		6	9.57	3.12
10965.0	0.2	6.4	42		10	9.50	3.08
10966.0	0.0	3.5	84		11	9.44	3.05
10967.0	0.0	4.7	63		10	9.41	3.05
10968.0	0.0	4.6	72		8	9.36	3.03
10969.0	0.3	7.3	49		6	9.31	3.01
10970.0	5	11.4	35	0.3	4	9.22	2.96
10971.0	3	10.6	40	0.3	4	9.11	2.89
10972.0	1	9.5	44	0.4	4	9.00	2.83
10973.0	0.9	8.9	46		5	8.91	2.78
10974.0	0.7	8.5	47		8	8.82	2.73
10975.0	0.8	8.7	48		6	8.74	2.68
10976.0	0.9	9.0	47		5	8.65	2.64
10977.0	0.9	9.0	46		6	8.56	2.59
10978.0	1	9.0	45		6	8.47	2.54
10979.0	0.1	6.1	66		8	8.38	2.50
10980.0	0.0	1.5	100		14	8.34	2.49
10981.0	0.0	0.0	100		26	8.33	2.49
10982.0	0.0	0.0	100		36	8.33	2.49
10983.0	0.0	0.0	100		17	8.33	2.49
10984.0	0.0	3.4	100		11	8.32	2.49
10985.0	0.2	6.6	54		8	8.27	2.47
10986.0	0.1	5.8	64		11	8.21	2.44
10987.0	0.0	4.2	82		19	8.15	2.42
10988.0	0.0	1.1	100		30	8.12	2.42
10989.0	0.0	3.4	100		17	8.11	2.42
10990.0	0.0	5.0	76		10	8.07	2.41
10991.0	0.0	5.0	70		12	8.02	2.40
10992.0	0.1	5.5	65		14	7.96	2.39
10993.0	0.0	4.4	84		12	7.91	2.38
10994.0	0.1	6.0	57		10	7.86	2.37
10995.0	0.1	5.5	59		12	7.81	2.34
10996.0	0.0	3.9	100		14	7.75	2.32
10997.0	0.0	0.5	100		27	7.72	2.32
11012.0	0.0	0.8	100		25	7.72	2.32
11013.0	0.0	4.1	99		17	7.71	2.32
11014.0	0.0	3.9	99		16	7.67	2.32
11015.0	0.1	5.9	62		12	7.62	2.31
11016.0	0.1	6.2	65		5	7.56	2.29
11017.0	0.2	6.9	62		0	7.50	2.27

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11018.0	0.5	8.3	50		0	7.43	2.24
11019.0	0.6	8.4	50		0	7.34	2.20
11020.0	0.3	7.7	54		2	7.26	2.16
11021.0	0.4	7.9	53		1	7.18	2.12
11022.0	0.4	7.6	48		0	7.10	2.08
11023.0	0.3	7.1	52		0	7.03	2.05
11024.0	0.2	6.6	50		1	6.96	2.01
11025.0	0.2	6.6	49		2	6.89	1.98
11026.0	0.2	6.5	46		5	6.83	1.94
11027.0	0.1	5.6	51		9	6.76	1.91
11028.0	0.1	5.2	57		11	6.71	1.88
11029.0	0.1	6.2	57		5	6.66	1.86
11030.0	0.2	6.5	49		5	6.59	1.83
11031.0	0.3	7.2	49		2	6.53	1.80
11032.0	0.5	7.7	44	0.3	0	6.45	1.76
11033.0	0.2	6.5	45		0	6.38	1.72
11034.0	0.9	8.1	36	0.3	0	6.31	1.68
11035.0	0.5	7.9	45	0.3	0	6.23	1.63
11036.0	0.5	6.1	25	0.5	1	6.16	1.59
11037.0	0.0	5.9	100		0	6.09	1.57
11038.0	0.3	6.5	43		0	6.03	1.55
11039.0	0.3	7.0	48		0	5.96	1.51
11040.0	0.2	6.7	51		3	5.90	1.48
11041.0	0.4	7.5	46		6	5.83	1.44
11042.0	0.0	4.3	72		17	5.76	1.41
11043.0	0.0	4.2	100		19	5.72	1.40
11044.0	0.0	0.0	100		38	5.68	1.40
11061.0	0.0	0.0	100		49	5.68	1.40
11065.0	0.0	0.0	100		46	5.68	1.40
11066.0	0.0	1.1	100		30	5.68	1.40
11067.0	0.0	4.6	76		18	5.66	1.40
11068.0	0.0	4.7	78		13	5.62	1.39
11069.0	0.0	3.8	98		10	5.57	1.38
11070.0	0.0	3.3	100		10	5.53	1.38
11071.0	0.0	3.6	97		8	5.50	1.38
11072.0	0.0	3.7	100		9	5.46	1.38
11073.0	0.0	4.0	100		11	5.43	1.38
11074.0	0.0	4.9	86		16	5.38	1.38
11075.0	0.0	1.7	100		28	5.34	1.38
11076.0	0.0	3.7	100		17	5.32	1.38
11077.0	0.0	4.3	100		8	5.28	1.38
11078.0	0.0	4.1	98		5	5.23	1.38
11079.0	0.0	4.3	76		4	5.19	1.37
11080.0	0.0	5.1	65		1	5.15	1.36
11081.0	0.0	5.3	73		0	5.10	1.34
11082.0	0.1	5.8	55		0	5.04	1.33

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11083.0	0.2	6.5	47		2	4.98	1.30
11084.0	0.2	6.5	43		3	4.91	1.27
11085.0	0.1	5.7	46		2	4.85	1.23
11086.0	0.1	5.3	59		2	4.80	1.20
11087.0	0.1	6.7	63		0	4.74	1.18
11088.0	0.0	6.1	94		2	4.67	1.16
11089.0	0.0	6.1	85		14	4.61	1.16
11090.0	0.0	0.0	100		44	4.58	1.15
11095.0	0.0	0.0	100		48	4.58	1.15
11103.0	0.0	0.0	100		26	4.58	1.15
11104.0	0.0	3.6	100		13	4.57	1.15
11105.0	0.0	2.9	100		7	4.54	1.15
11106.0	0.0	1.2	100		7	4.51	1.15
11107.0	0.0	0.0	100		21	4.50	1.15
11108.0	0.0	0.0	100		36	4.50	1.15
11129.0	0.0	0.0	100		47	4.50	1.15
11130.0	0.0	0.0	100		49	4.50	1.15
11131.0	0.0	0.0	100		45	4.50	1.15
11136.0	0.0	0.8	100		31	4.50	1.15
11137.0	0.0	4.1	100		19	4.47	1.15
11138.0	0.0	3.8	100		19	4.44	1.15
11139.0	0.0	4.3	100		19	4.40	1.15
11140.0	0.0	4.7	95		18	4.35	1.15
11141.0	0.0	4.5	94		18	4.30	1.15
11142.0	0.0	4.5	81		17	4.26	1.15
11143.0	0.0	5.3	64		12	4.21	1.13
11144.0	0.1	6.1	64		4	4.16	1.11
11145.0	0.1	6.2	61		4	4.09	1.09
11146.0	0.1	5.9	58		8	4.03	1.07
11147.0	0.0	4.6	71		14	3.98	1.04
11148.0	0.0	4.4	85		12	3.93	1.03
11149.0	0.0	4.9	63		12	3.88	1.02
11150.0	0.1	5.4	58		10	3.83	1.00
11151.0	0.1	5.8	61		9	3.78	0.98
11152.0	0.0	2.2	100		23	3.72	0.96
11161.0	0.0	0.3	100		14	3.71	0.96
11162.0	0.5	8.6	59		3	3.69	0.96
11163.0	0.5	8.2	50		2	3.60	0.92
11164.0	0.5	7.8	45		3	3.52	0.88
11165.0	0.6	8.1	45		3	3.44	0.84
11166.0	0.2	6.8	51		2	3.36	0.79
11167.0	0.1	5.6	61		1	3.30	0.76
11168.0	0.1	6.0	58		0	3.24	0.74

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11169.0	0.2	6.6	51		0	3.18	0.71
11170.0	0.2	6.8	48		0	3.11	0.68
11171.0	0.2	6.4	48		0	3.05	0.65
11172.0	0.1	5.5	55		0	2.99	0.61
11173.0	0.0	4.9	60		2	2.93	0.59
11174.0	0.1	5.2	55		2	2.88	0.57
11175.0	0.1	5.7	56		2	2.83	0.55
11176.0	0.1	5.8	57		4	2.77	0.52
11177.0	0.0	5.2	60		9	2.72	0.50
11178.0	0.0	4.6	78		8	2.67	0.48
11179.0	0.0	3.6	100		8	2.62	0.47
11180.0	0.0	3.0	100		13	2.59	0.47
11181.0	0.0	2.7	100		14	2.56	0.47
11182.0	0.0	2.9	100		9	2.53	0.47
11183.0	0.0	3.3	100		7	2.50	0.47
11184.0	0.0	4.1	78		5	2.47	0.47
11185.0	0.0	4.9	59		2	2.42	0.46
11186.0	0.0	5.4	100		0	2.37	0.43
11187.0	0.7	7.1	32	0.4	0	2.32	0.43
11188.0	1	7.5	28	0.4	0	2.24	0.38
11189.0	0.3	6.1	33	0.5	0	2.17	0.33
11190.0	0.6	6.7	31		1	2.11	0.29
11191.0	0.3	5.8	32		4	2.04	0.24
11192.0	0.0	4.4	59		4	1.99	0.21
11193.0	0.1	5.4	55		9	1.94	0.19
11194.0	0.0	4.5	76		18	1.88	0.16
11204.0	0.0	0.0	100		44	1.86	0.16
11205.0	0.0	0.4	100		35	1.86	0.16
11206.0	0.0	1.7	100		28	1.85	0.16
11207.0	0.0	0.0	100		38	1.84	0.16
11208.0	0.0	1.1	100		23	1.84	0.16
11209.0	0.0	2.0	100		19	1.82	0.16
11210.0	0.0	0.0	100		49	1.81	0.16
11215.0	0.0	0.1	100		35	1.81	0.16
11216.0	0.0	0.5	100		34	1.80	0.16
11217.0	0.0	0.0	100		43	1.79	0.16
11218.0	0.0	0.0	100		45	1.79	0.16
11219.0	0.0	0.0	100		44	1.79	0.16
11223.0	0.0	1.8	100		27	1.79	0.16
11224.0	0.0	3.4	100		16	1.76	0.16
11225.0	0.0	2.7	100		16	1.73	0.16
11226.0	0.0	2.7	100		14	1.71	0.16
11227.0	0.0	3.4	100		13	1.68	0.16
11228.0	0.0	3.5	100		10	1.64	0.16
11229.0	0.0	3.4	100		11	1.61	0.16

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11230.0	0.0	1.5	100		29	1.58	0.16
11233.0	0.0	0.0	100		44	1.57	0.16
11234.0	0.0	0.0	100		42	1.57	0.16
11235.0	0.0	0.0	100		43	1.57	0.16
11236.0	0.0	0.0	100		47	1.57	0.16
11237.0	0.0	0.0	100		41	1.57	0.16
11238.0	0.0	0.0	100		40	1.57	0.16
11247.0	0.0	4.7	99		12	1.57	0.16
11248.0	0.0	3.9	100		8	1.52	0.16
11249.0	0.0	4.2	100		10	1.48	0.16
11250.0	0.0	0.4	100		35	1.44	0.16
11261.0	0.0	0.0	100		50	1.44	0.16
11268.0	0.0	0.5	100		27	1.44	0.16
11269.0	0.0	0.9	100		31	1.43	0.16
11270.0	0.0	0.0	100		35	1.43	0.16
11271.0	0.0	1.0	100		25	1.43	0.16
11272.0	0.0	2.0	100		26	1.41	0.16
11273.0	0.0	0.1	100		40	1.40	0.16
11274.0	0.0	0.0	100		43	1.40	0.16
11275.0	0.0	1.0	100		31	1.40	0.16
11276.0	0.0	4.2	91		14	1.38	0.16
11277.0	0.0	3.7	100		13	1.33	0.15
11278.0	0.0	4.0	100		16	1.30	0.15
11279.0	0.0	0.0	100		46	1.27	0.15
11291.0	0.0	0.0	100		44	1.27	0.15
11292.0	0.0	1.8	100		27	1.27	0.15
11293.0	0.0	3.2	100		20	1.25	0.15
11294.0	0.0	3.9	87		15	1.22	0.15
11295.0	0.0	4.0	90		12	1.18	0.15
11296.0	0.0	3.9	95		10	1.14	0.14
11297.0	0.0	4.0	91		11	1.10	0.14
11298.0	0.0	4.5	76		8	1.06	0.14
11299.0	0.0	4.3	87		6	1.01	0.13
11300.0	0.0	4.6	84		7	0.97	0.12
11301.0	0.0	4.4	89		7	0.92	0.11
11302.0	0.0	3.6	99		9	0.88	0.11
11303.0	0.0	3.7	97		15	0.85	0.11
11304.0	0.0	2.5	100		25	0.81	0.11
11305.0	0.0	0.0	100		50	0.80	0.11
11314.0	0.0	0.0	100		49	0.80	0.11
11321.0	0.0	0.0	100		45	0.80	0.11

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11322.0	0.0	4.5	100		11	0.79	0.11
11323.0	0.0	5.9	71		5	0.74	0.10
11324.0	0.4	7.9	53		2	0.67	0.08
11325.0	0.5	8.4	55		0	0.59	0.04
11326.0	0.0	6.5	75		4	0.51	0.01
11327.0	0.0	4.6	100		13	0.45	0.00
11328.0	0.0	0.1	100		36	0.40	0.00
11340.0	0.0	0.0	100		41	0.40	0.00
11341.0	0.0	0.0	100		38	0.40	0.00
11342.0	0.0	0.0	100		48	0.40	0.00
11347.0	0.0	0.0	100		50	0.40	0.00
11352.0	0.0	0.0	100		44	0.40	0.00
11353.0	0.0	0.0	100		39	0.40	0.00
11354.0	0.0	1.2	100		30	0.40	0.00
11355.0	0.0	0.0	100		43	0.39	0.00
11366.0	0.0	0.0	100		47	0.39	0.00
11367.0	0.0	0.0	100		43	0.39	0.00
11368.0	0.0	0.0	100		44	0.39	0.00
11369.0	0.0	0.0	100		46	0.39	0.00
11370.0	0.0	0.0	100		46	0.39	0.00
11371.0	0.0	0.0	100		46	0.39	0.00
11372.0	0.0	0.0	100		49	0.39	0.00
11373.0	0.0	0.0	100		41	0.39	0.00
11374.0	0.0	0.0	100		17	0.39	0.00
11375.0	0.0	0.0	100		35	0.39	0.00
11376.0	0.0	0.0	100		43	0.39	0.00
11377.0	0.0	0.0	100		48	0.39	0.00
11378.0	0.0	0.1	100		49	0.39	0.00
11379.0	0.0	0.1	100		43	0.39	0.00
11380.0	0.0	1.3	100		29	0.39	0.00
11381.0	0.0	0.3	100		34	0.38	0.00
11382.0	0.0	0.7	100		27	0.37	0.00
11383.0	0.0	0.0	100		36	0.37	0.00
11384.0	0.0	0.0	100		36	0.37	0.00
11385.0	0.0	2.2	100		26	0.37	0.00
11386.0	0.0	5.1	100		17	0.33	0.00
11387.0	0.0	5.3	100		17	0.28	0.00
11388.0	0.0	5.3	100		16	0.23	0.00
11389.0	0.0	2.5	100		25	0.18	0.00
11390.0	0.0	0.0	100		41	0.17	0.00
11391.0	0.0	0.0	100		39	0.17	0.00
11392.0	0.0	3.3	100		18	0.16	0.00
11393.0	0.0	3.7	100		21	0.12	0.00
11394.0	0.0	0.6	100		33	0.09	0.00

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11395.0	0.0	0.0	100		45	0.09	0.00
11421.0	0.0	0.0	100		47	0.09	0.00
11422.0	0.0	0.1	100		41	0.09	0.00
11423.0	0.0	0.0	100		41	0.09	0.00
11424.0	0.0	0.0	100		41	0.09	0.00
11425.0	0.0	0.0	100		43	0.09	0.00
11432.0	0.0	0.0	100		44	0.09	0.00
11433.0	0.0	0.0	100		39	0.09	0.00
11434.0	0.0	1.9	100		27	0.09	0.00
11435.0	0.0	2.5	100		25	0.06	0.00
11436.0	0.0	1.4	100		29	0.04	0.00
11437.0	0.0	0.2	100		34	0.03	0.00
11438.0	0.0	0.0	100		36	0.03	0.00
11439.0	0.0	0.0	100		39	0.03	0.00
11440.0	0.0	0.0	100		43	0.03	0.00
11447.0	0.0	0.0	100		46	0.03	0.00
11448.0	0.0	0.0	100		48	0.03	0.00
11474.0	0.0	0.0	100		50	0.03	0.00
11475.0	0.0	0.0	100		47	0.03	0.00
11476.0	0.0	0.0	100		42	0.03	0.00
11477.0	0.0	0.0	100		45	0.03	0.00
11500.0	0.0	5.2	100		0	0.03	0.00

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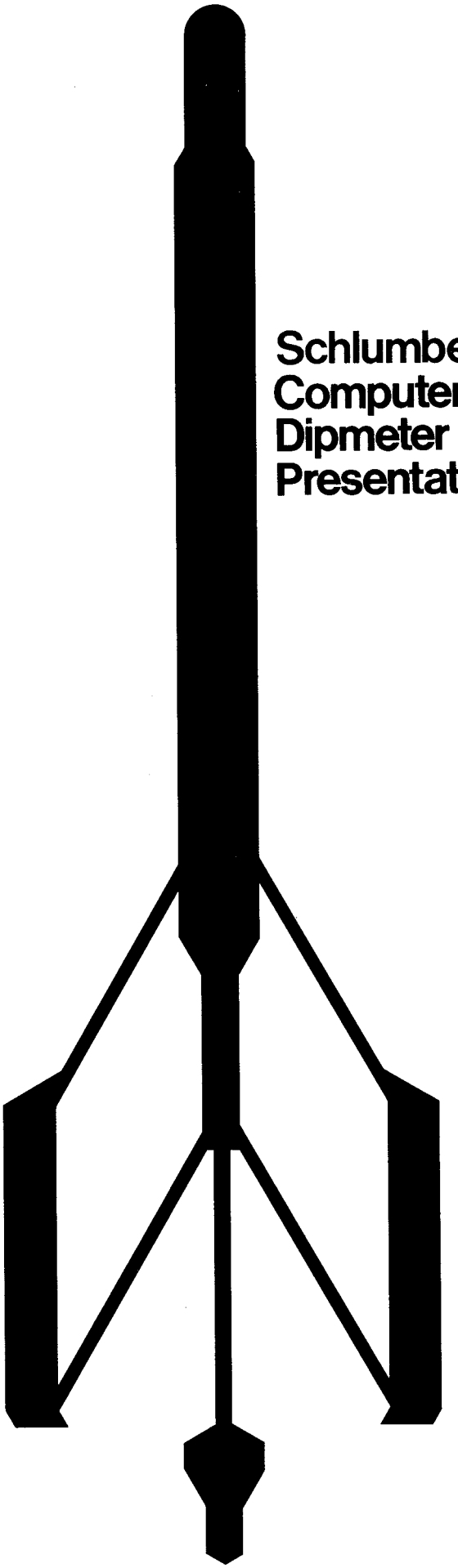


Schlumberger Computer-Processed Dipmeter Presentations

High Resolution Dipmeter Computation

The advanced telemetry of Schlumberger's High Resolution Dipmeter transmits borehole data uphole where it is digitally recorded on magnetic tape. Basic resistivity and orientation information is retrieved from the Dipmeter tape for computation tailored to particular geological problems. Resistivity and orientation data are processed within preselected parameters of correlation length, step distance and search angle. Results are displayed graphically and in tabular form. Nine different graphic presentations including a borehole geometry display and a tabular listing are available to facilitate interpretation of Dipmeter computations.

Dipmeter computation permits you to:

Establish presence or absence of structure

Evaluate the advisability of side tracking to establish or improve production

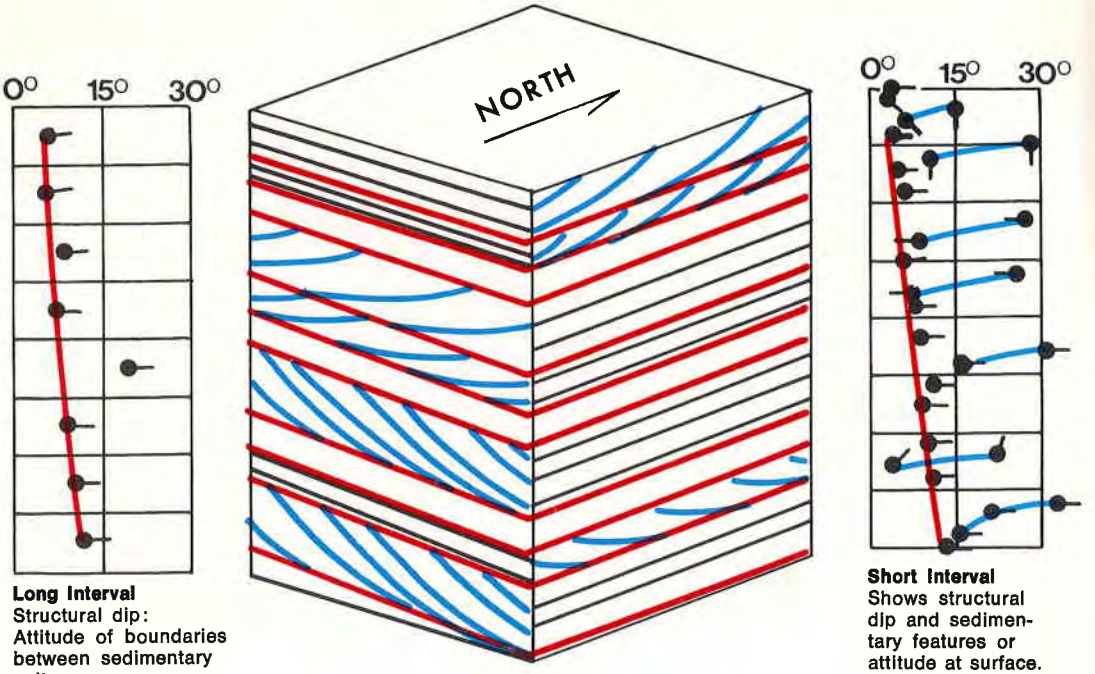
Establish offset wells

Evaluate reservoir true-bed thickness

Facilitate contour mapping and cross section plotting

Define environment at the time of deposition

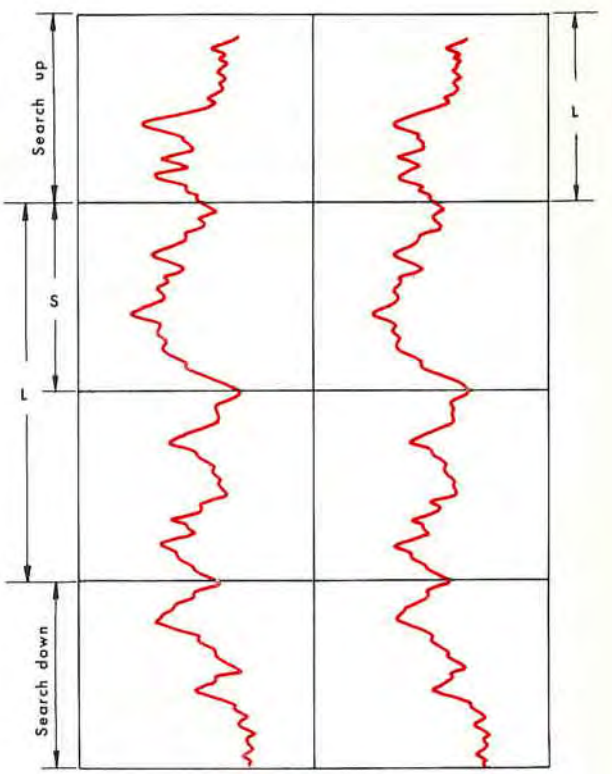
Define faults, unconformities, sand bars, channels, pinch outs, crossbedding, and depositional fronts.



Long Interval
Structural dip:
Attitude of boundaries between sedimentary units.

Short Interval
Shows structural dip and sedimentary features or attitude at surface.

Fig. 1. Correlation Length



L = Correlation length
S = Step distance

Fig. 2. Step Distance

Computation Options

After basic resistivity and orientation information is retrieved from the Dipmeter tape, the data are processed within preselected parameters based on the geological feature to be studied. The preselected parameters, correlation length, step distance and search angle are discussed below.

Correlation Length—The window-length through which the computer views the micro-resistivity curve data for automatic correlation (Figure 1 & 2). Usually, a correlation length of four feet is chosen to give dips reflecting both structural and stratigraphic features. For delineation of finer features, correlation lengths of one or two feet are sometimes required.

Step Distance—Distance the window is moved for the next set of correlations. Usually the step distance is 50% of the correlation length (the window is moved half its length). One dip is computed per step (Figure 2).

Search Angle—Each resistivity curve is compared to the others in steps of one-tenth of an inch and a correlation coefficient computed for each position. This shifting is computed over an interval called the search interval (Figure 2). The maximum correlation coefficient is taken as the correct depth shift and displacement is determined. This search interval (converted to an angle) is preselected based upon the maximum magnitude of anticipated dips. A search angle of 70 degrees requires more than double the computations of a search angle of 45 degrees (Figure 3).

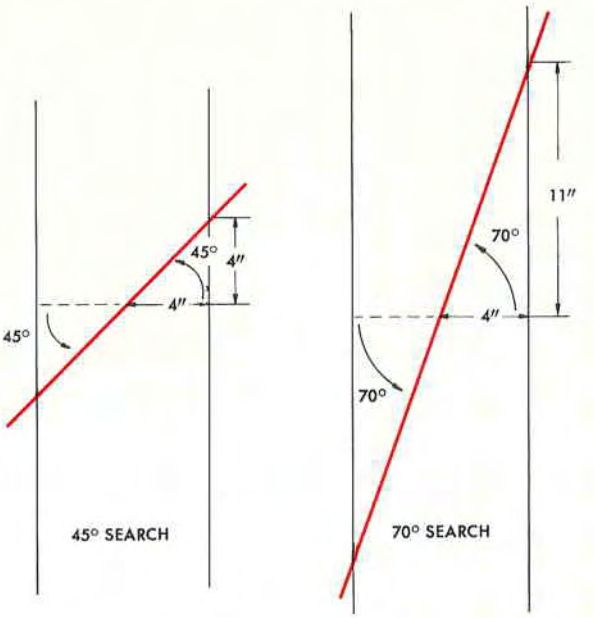


Fig. 3. Search Angle

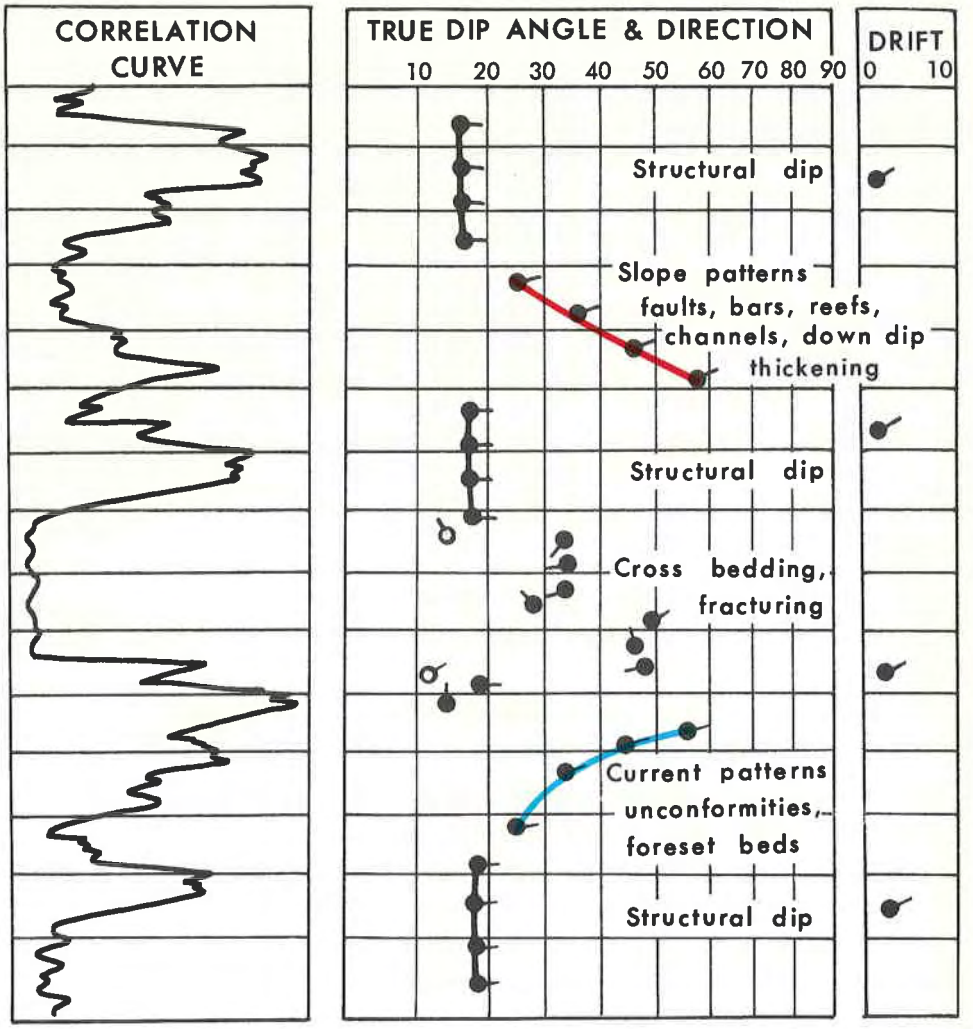


Fig. 4. Arrow Plot

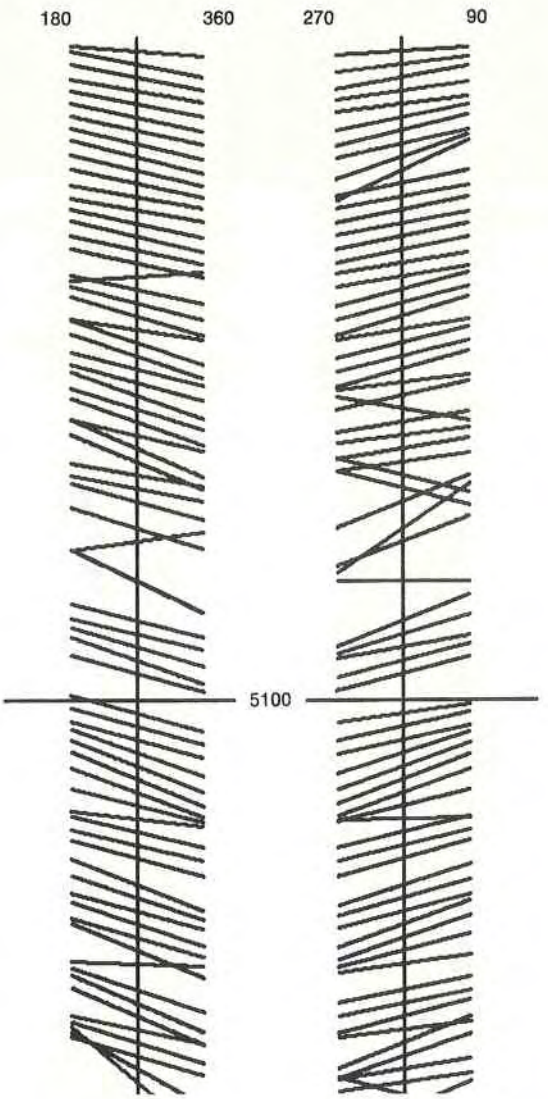
Data Display and Presentation

Dipmeter computation data are displayed graphically and in tabular form. Nine different presentations including a borehole geometry display and a tabular listing are available to facilitate your interpretation of Dipmeter computations.

1. Arrow Plot—The Arrow Plot shown in Figure 4 gives the magnitude (scale at top) and direction (of the arrow with North at the top) of true dips. Arrow Plot information can be grouped into patterns: structural dip is indicated by constant dip magnitude and direction with increasing depth; slope patterns are indicated by increasing dip and constant azimuth with depth and define faults, bars, channels, reefs and down dip thickening; current patterns are dip groups which indicate unconformities and foreset beds by decreasing dip and constant azimuth with depth.

Two types of circles represent dip magnitude on the Arrow Plot. All quality rated computations are solid circles; open circles represent computations which are not quality rated. At the extreme right is the drift and direction of the sonde (hence the borehole). Any depth scale may be used, but a common one is 5″ = 100′ in order to correlate with other logs such as the I-ES. With Schlumberger's High Resolution Dipmeter, correlation is accomplished with a unsealed resistivity curve, obtained from one of the focused resistivity measurements.

2. Stick Plot—This is a two-dimensional cross section at a preselected azimuth. The standard presentation is shown in Figure 5. The Plot shows how each bedding plane would cross the borehole at a prespecified azimuth.



VERTICAL SCALE = 5 IN./FT.
HORIZONTAL SCALE = 5 IN./FT.

Fig. 5. Stick Plot

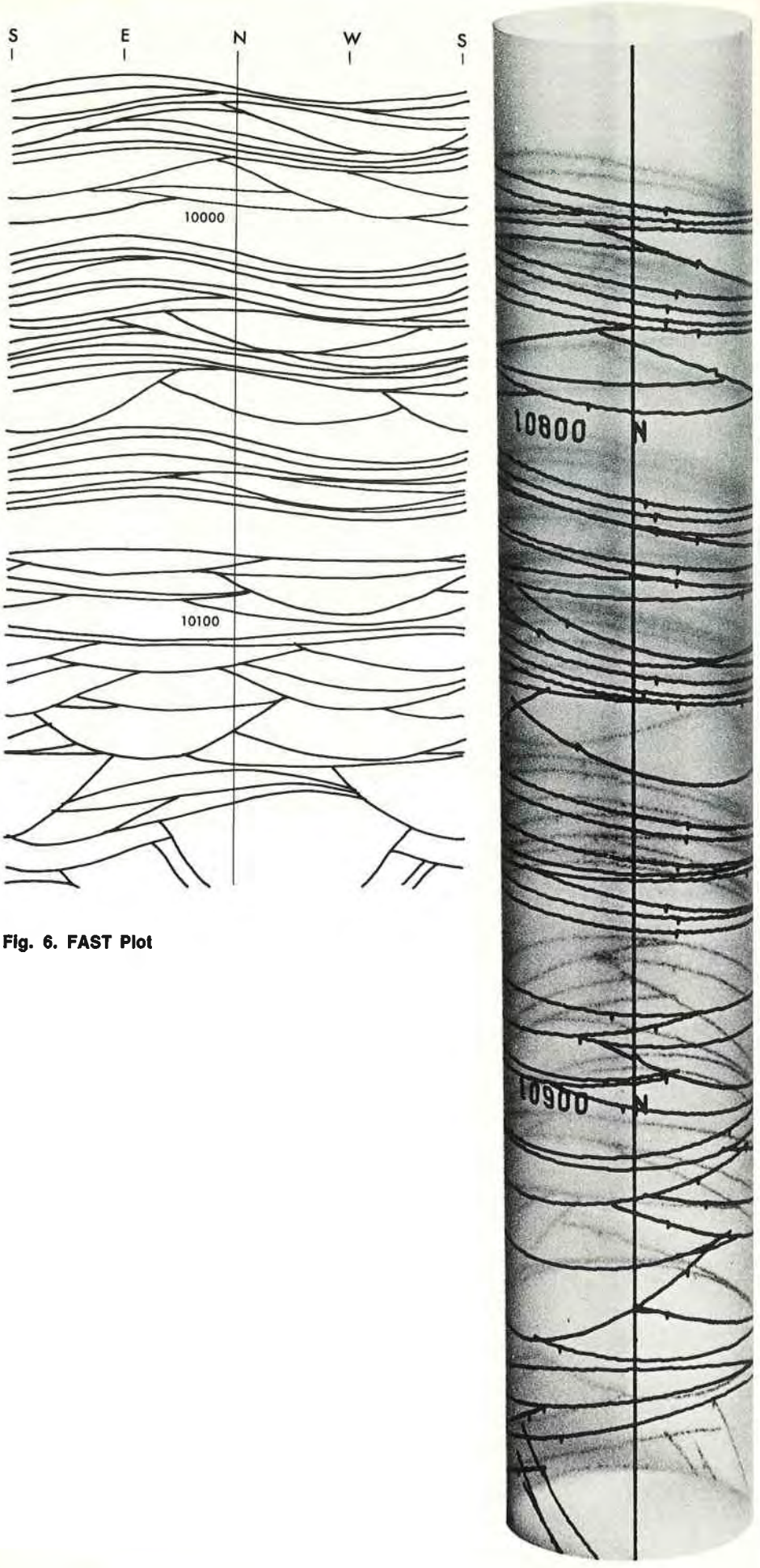


Fig. 6. FAST Plot

3. FAST Plot—This two-dimensional presentation has the appearance of the borehole split on the South axis. When this two-dimensional plot is placed in a transparent cylinder, the bedding plans appear as they would in an oriented core (Figure 6).

4. Seria Plot—This presents the same information as the Arrow Plot in a different form (Figure 7). This presentation separates dip and azimuth so that each can be separately evaluated.

5. Modified Schmidt Plot (vertical dip at the center) —The Modified Schmidt Diagram (Figure 8) is used to determine structural dip when it is hard to find from the Arrow Plot.

The paper is polar with North at the top. Dip magnitudes are represented by concentric circles. The plot is divided into cells of 10-degree magnitude and 10-degree azimuth; the dots are plotted for all dips computed. In some cells there may be no dots; in others, one dot; in still others, two or more dots. Contour lines connect the dots of each group. Low structural dip has an elongated contour hugging the outer rim of the plot and extending over a wide range of azimuths. The remaining dips (slope and current patterns) will plot in rough triangles with their apexes pointing toward the center of the plot. If structural dip is greater than three or four degrees, it can be vectorially subtracted from the dips by the computer, leaving the absolute current and slope pattern dips.

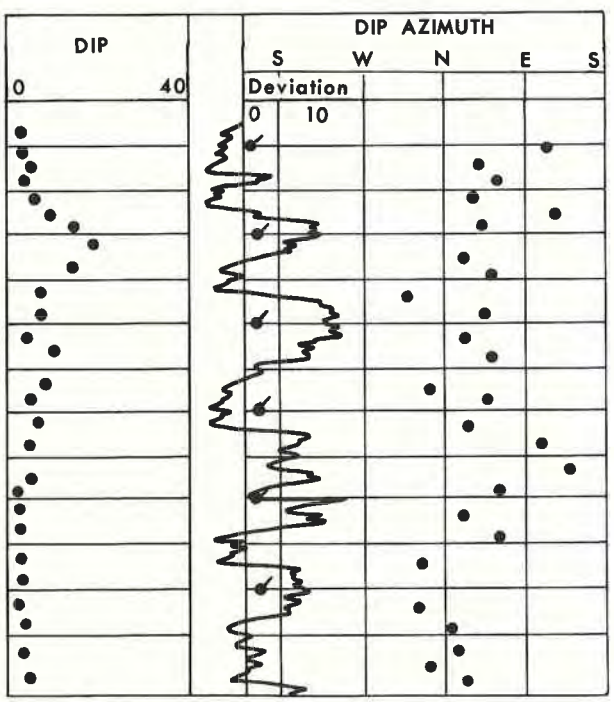
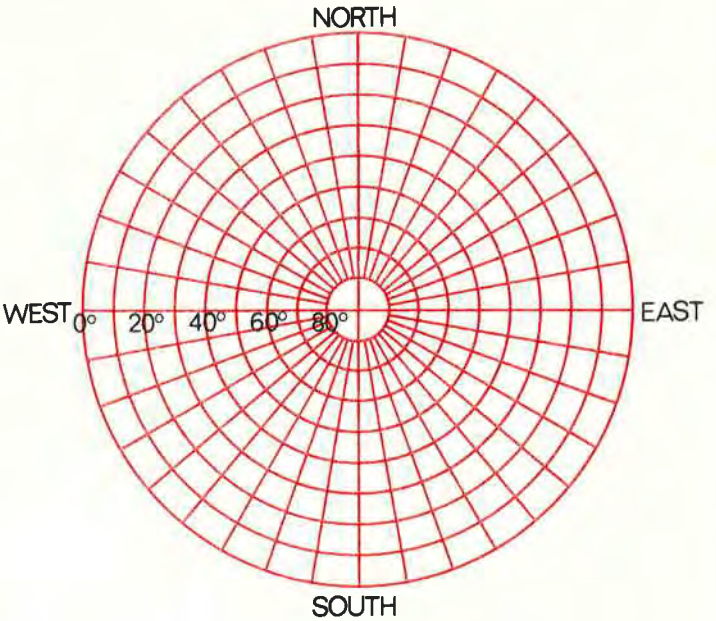


Fig. 7. Seria Plot



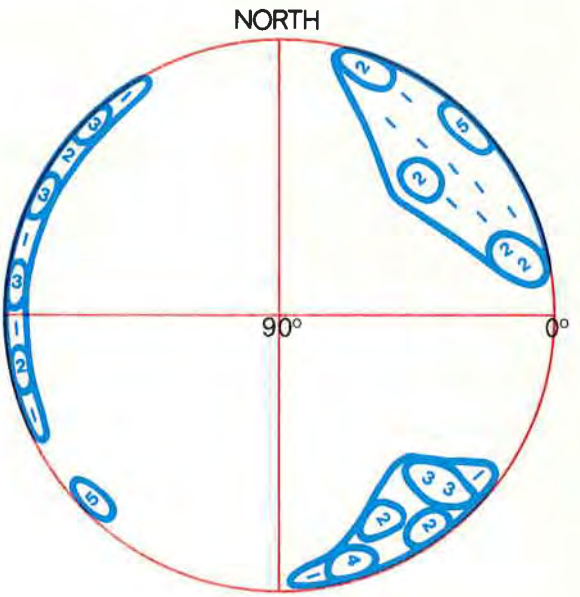


Fig. 8. Modified Schmidt Plot

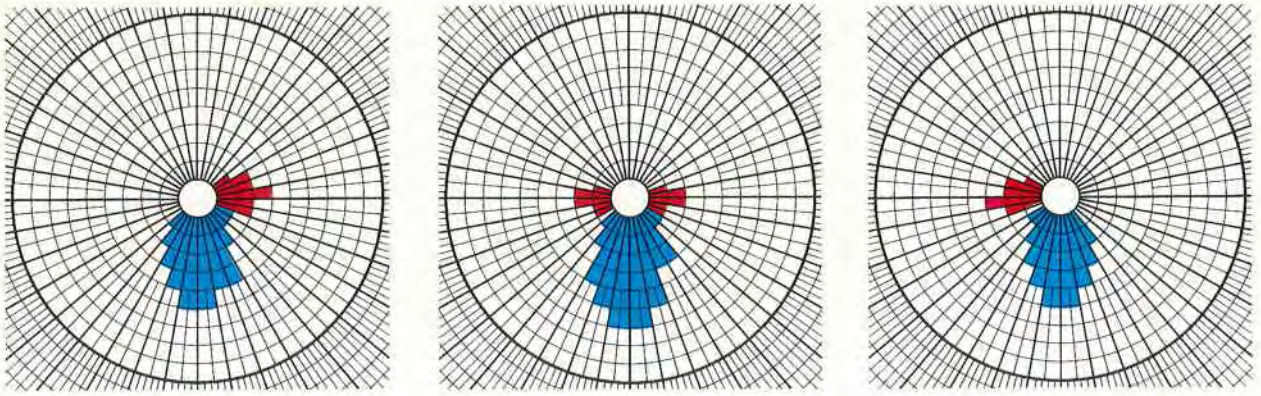
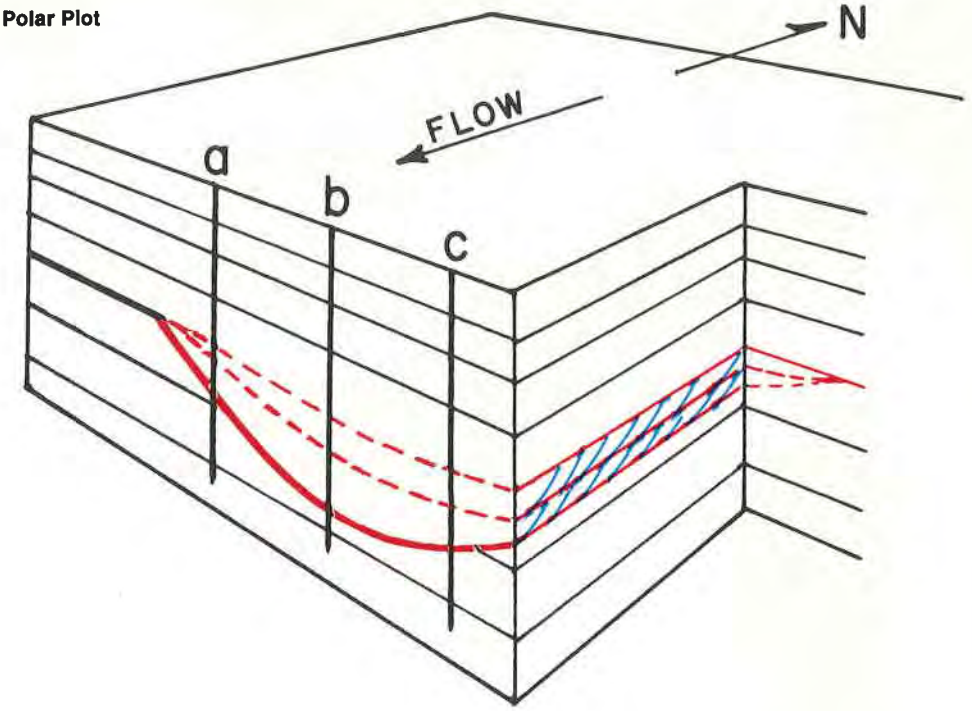


Fig. 9. Azimuth Frequency Polar Plot



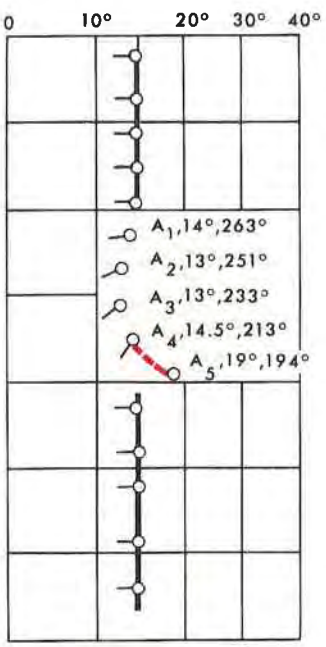


Fig. 10. Arrow Plot

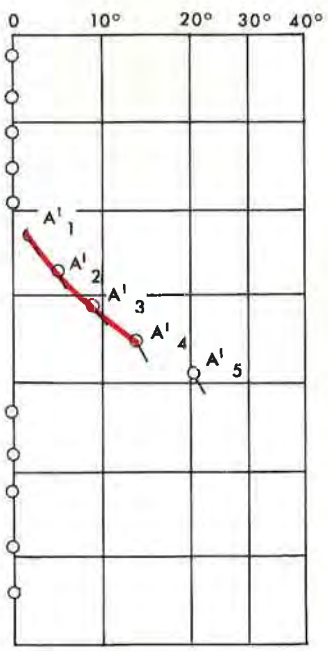


Fig. 11. Arrow Plot with structural dip removed

6. Azimuth Frequency Polar Plot—This is plotted on polar coordinate paper with North at the top and 10-degree azimuth increments (Figure 9). The length of each 10-degree segment is proportional to the number of dips in the interval having that azimuth range, with zero frequency at the center. The result will be little fans (originating at the center) which may be composed of slope or current patterns. Comparison with the Arrow Plot will differentiate current and slope patterns. Azimuth Frequency Polar Plots are excellent tools for delineating bars, reefs, channels and troughs.

7. Arrow Plot with structural dip removed—To use slope or current patterns to best advantage, it is usually necessary to subtract by vector rotation structural dip greater than 10 degrees. The subtraction can be accomplished automatically by the computer. Figure 10 shows the plot of the interval with dip values computed (structural dip is 15 degrees W). A possible slope pattern is indicated by the dashes between A_4 and A_5. Figure 11 shows the plot of the interval with structural dip removed. The "absolute" slope pattern is clearly defined and can be used for stratigraphic or sedimentary study.

8. Borehole Geometry Plot—The High Resolution Dipmeter with four-arm sonde records two independent oriented caliper surveys. This information is presented graphically to show borehole geometry and direction of hole elongation. Figure 12 is an example of the available borehole geometry presentation.

9. Listing—All Dipmeter computation information can be presented in tabular or list form (See Figure 13, next page). A glossary of tabular listing data shown on the list follows the print-out.

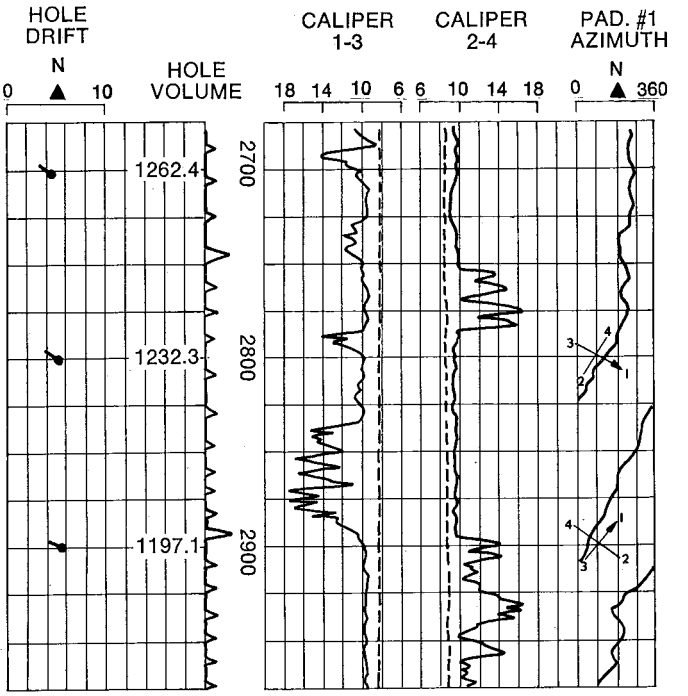


Fig. 12. Borehole Geometry

1 2 3 4 5 6 7

ZONE 1- PAGE 1-

DEPTH	DIP	DIP AZM	DEV	DEV AZM	DIAM 1-3	DIAM 2-4
9436	6.4	243	4.0	63	7.8	7.8
9438	4.5	238	4.1	62	7.7	7.9
9440	8.2	235	4.0	61	7.8	7.9
9442	8.3	221	4.0	60	7.8	7.8
9444	7.2	210	4.0	59	7.8	7.7
9446	35.9	175	4.0	63	7.8	7.6
9450	1.1	279	4.0	70	7.7	7.8
9452	2.8	222	4.0	71	7.9	7.9
9454	6.4	212	4.0	72	8.2	8.3
9456	3.7	94	4.0	72	8.3	8.4
9458	2.3	71	4.0	73	8.2	8.3
9460	1.6	70	4.0	72	8.0	8.2
9462	2.0	17	4.0	71	7.8	7.9
9464	2.8	92	4.0	70	7.8	7.9
9466	2.6	109	4.0	69	7.9	8.0
9468	1.2	114	4.0	68	7.8	8.0
9470	1.3	142	4.0	67	7.8	7.9
9472	2.1	121	3.9	66	7.8	7.9
9474	2.1	107	3.8	67	7.8	7.8
9476	.5	146	3.8	69	7.8	7.8
9478	2.3	294	3.8	71	7.8	7.9
9480	.7	95	3.9	75	7.8	7.9
9482	6.0	144	4.0	75	7.8	7.9
9484	3.8	132	3.9	72	7.8	7.8
9486	5.2	132	3.9	70	7.8	7.9
9488	4.1	97	3.9	71	7.8	7.9
9490	.5	337	3.9	71	7.9	7.9
9492	3.1	299	3.9	68	7.9	7.8
9494	10.6	16	3.8	68	7.9	7.7
9496	30.0	233	3.7	69	8.0	7.8
9498	2.6	280	3.6	67	8.0	7.9
9500	3.2	197	3.5	68	7.9	8.0
9502	2.4	163	3.5	71	8.0	7.9
9504	2.4	149	3.4	69	8.0	8.0
9506	1.3	135	3.4	68	7.9	8.0
9508	1.9	256	3.4	70	7.8	7.9
9510	1.6	254	3.4	73	7.8	7.9
9512	2.1	239	3.3	72	7.9	7.9
9514	6.1	177	3.3	74	7.9	7.8
9516	8.3	131	3.3	74	7.9	7.8

Fig. 13. Listing

TABULAR LISTING DATA

Column 1
Depth in feet

Column 2
Dip angle in degrees

Column 3
Dip direction—in degrees clockwise from True North

Column 4
Sonde deviation in degrees from vertical

Column 5
Direction of sonde deviation in degrees clockwise from True North

Column 6
Borehole diameter from Dipmeter pads 1-3

Column 7
Borehole diameter from Dipmeter pads 2-4

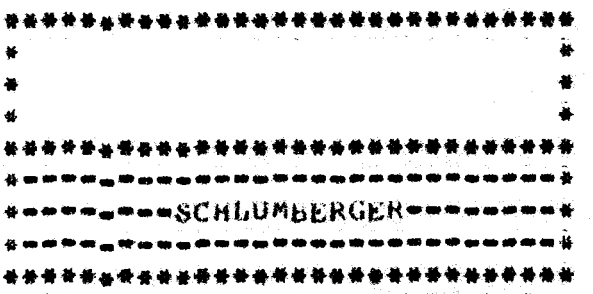
Note:
Quality values will be available on listing

A total digital capability

Positive structural and stratigraphic information obtained from the computation of Dipmeter surveys can lead to successful exploration and development programs. Quality dip information depends upon the accuracy of both the recording and the computation of data. Schlumberger has developed a complete digital recording and computation system that will give you the positive data you need. Dipmeter data are digitally recorded in the field on magnetic tape and processed with advanced software in Schlumberger computer centers.

C-11937 GPC-5M-2/74

Litho in U.S.A.



DIPMETER

CLUSTER

CALCULATION

LISTING

EXXON CO. USA

WILKIN RIDGE UNIT NO. 1

WILDCAT

DUCHESNE COUNTY, UTAH

RUN NO. ONE JOB NO. 02216

CORRELATION LENGTH	4 FT.
STEP LENGTH	2 FT.
SEARCH ANGLE	30 DEG. X2

12-NOV-74

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
4532.0	4.6	272	2.8	189	8.3	8.0	4
4534.0	6.0	288	2.7	190	8.3	8.0	4
4536.0	7.7	266	2.7	190	8.3	7.9	2
4538.0	11.7	285	2.7	189	8.4	7.9	4
4540.0	7.4	302	2.8	188	8.4	8.0	4
4542.0	5.7	157	2.7	188	8.5	8.1	1
4544.0	3.2	135	2.7	189	9.2	8.8	4
4546.0	5.2	3	2.7	189	9.7	9.3	4
4548.0			2.6	188	9.9	9.6	
4550.0	9.7	7	2.7	187	10.8	10.7	2
4552.0	4.6	19	2.8	188	10.8	10.9	2
4554.0			2.7	188	9.9	9.9	
4556.0	2.5	247	2.8	188	9.8	9.5	4
4558.0	3.0	234	2.8	189	9.8	9.6	2
4560.0	6.9	46	2.8	188	9.9	10.0	3
4562.0	5.7	263	2.8	189	9.8	10.1	4
4564.0	7.0	252	2.9	189	9.7	9.8	4
4566.0	13.0	54	2.9	189	9.7	9.5	1
4568.0	10.2	252	2.9	189	9.8	9.3	4
4570.0	7.8	239	3.0	187	9.8	9.4	4
4572.0	8.0	234	3.0	187	9.6	9.4	4
4574.0			2.9	189	10.5	10.6	
4576.0	1.1	19	2.8	190	11.1	11.6	4
4578.0	2.1	311	2.9	188	10.5	10.9	4
4580.0	2.8	212	2.9	186	10.6	10.5	2
4582.0			2.9	186	10.0	9.7	
4584.0	1.9	19	2.9	184	9.4	8.9	4
4586.0	3.2	18	2.9	184	9.6	9.1	4
4588.0	3.3	2	2.9	186	9.8	9.4	4
4590.0	0.8	16	2.9	187	9.8	9.5	4
4592.0	1.4	59	2.9	187	9.7	9.1	4
4594.0	1.7	69	2.8	185	9.3	8.8	3
4596.0			2.8	185	10.2	10.1	
4598.0	12.1	230	2.9	184	11.1	12.3	3
4600.0			2.9	185	11.0	12.8	
4602.0	5.5	27	2.8	186	10.4	11.4	1
4604.0	8.6	62	2.8	186	10.3	11.0	1
4606.0			2.8	186	10.3	10.6	
4608.0	2.7	141	2.8	187	10.0	9.7	1
4610.0	4.0	118	2.9	188	10.1	9.7	1
4612.0	6.8	53	2.8	188	10.3	9.8	1
4614.0	3.4	102	2.8	188	10.3	9.8	4
4616.0	3.4	11	2.9	189	10.1	9.7	2
4618.0	5.1	4	3.0	188	9.9	9.6	2
4620.0	4.2	339	3.0	189	9.8	9.3	2

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
4622.0	3.1	133	3.0	190	9.9	9.5	4
4624.0	3.6	132	2.9	187	9.9	10.0	4
4626.0	5.3	119	2.8	183	9.6	10.6	4
4628.0	11.0	118	2.7	185	9.9	12.8	4
4630.0	3.5	77	2.7	188	10.4	12.6	4
4632.0	2.6	59	2.8	188	10.1	11.1	4
4634.0	2.2	9	2.8	188	9.9	10.6	4
4636.0	2.8	322	2.8	187	9.8	9.7	4
4638.0	2.8	296	2.7	188	9.9	9.7	4
4640.0	1.5	93	2.7	189	10.0	9.8	4
4642.0	1.6	96	2.8	189	10.1	9.4	4
4644.0	6.0	100	2.8	190	10.2	9.3	3
4646.0	4.5	189	2.8	189	10.2	9.2	1
4648.0	1.0	79	2.9	187	10.1	9.1	3
4650.0	11.0	135	2.9	185	10.3	9.6	1
4652.0	8.6	133	2.8	185	11.5	11.6	1
4654.0	2.1	238	2.8	186	12.3	12.9	1
4656.0	13.0	316	2.8	187	11.3	11.4	3
4658.0	11.0	321	2.8	186	11.3	11.4	3
4660.0			2.8	186	11.6	12.0	
4662.0	2.0	104	2.8	187	10.7	10.7	3
4664.0	8.9	120	2.8	185	10.6	10.9	1
4666.0			2.9	183	12.0	12.5	
4668.0			2.8	185	13.0	12.9	
4670.0			2.8	188	11.7	11.4	
4672.0			2.9	188	10.8	10.2	
4674.0			2.9	189	10.8	9.8	
4676.0			2.8	190	11.1	11.4	
4678.0			2.8	190	11.5	12.8	
4680.0			2.9	190	11.4	12.1	
4682.0			2.8	189	11.6	11.3	
4684.0			2.8	188	11.9	12.1	
4686.0	5.2	53	2.8	185	11.7	13.3	2
4688.0	4.1	217	2.7	184	12.2	13.2	4
4690.0	4.3	356	2.7	187	11.8	11.3	4
4692.0	7.8	28	2.8	188	10.5	9.0	4
4694.0	1.7	58	2.9	188	10.4	8.7	4
4696.0	7.8	164	2.9	187	10.1	8.7	4
4698.0	6.5	169	2.9	186	10.2	8.8	4
4700.0	2.5	196	3.0	186	10.1	8.8	4
4702.0	5.5	115	3.0	185	10.0	8.7	4
4704.0	6.0	105	2.9	185	10.7	9.7	4
4706.0	7.5	294	2.9	187	11.2	10.2	1
4708.0	12.6	2	2.9	187	11.1	10.1	3
4710.0	6.4	28	2.8	188	11.3	10.4	1

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
4712.0	5.3	48	2.8	189	11.2	9.9	1
4714.0			2.8	189	10.9	9.0	
4716.0	2.4	3	2.7	189	11.0	9.1	1
4718.0	4.3	94	2.8	190	11.3	10.4	1
4720.0			2.8	189	11.4	10.7	
4722.0	5.5	357	2.7	188	11.1	9.9	3
4724.0	5.8	360	2.7	186	11.0	9.7	3
4726.0	5.4	83	2.8	186	11.5	10.4	1
4728.0	7.0	277	2.9	186	12.2	11.0	1
4730.0	7.9	293	2.8	186	11.8	10.7	1
4732.0	9.0	152	2.8	188	10.8	9.9	3
4734.0	11.5	151	2.8	189	11.0	10.9	3
4736.0			2.8	188	12.0	13.0	
4738.0	16.2	45	2.9	187	12.2	12.3	3
4740.0	13.6	57	2.9	187	12.2	11.5	1
4742.0	15.2	139	2.9	188	11.8	11.5	1
4744.0			2.9	187	11.4	11.4	
4746.0			2.8	186	11.3	11.5	
4748.0			2.9	187	11.3	11.3	
4750.0			2.8	190	11.5	11.0	
4752.0			2.7	192	11.7	11.7	
4754.0			2.8	190	11.7	12.3	
4756.0			3.0	188	11.2	12.0	
4758.0	12.7	190	3.2	188	10.7	10.4	1
4760.0	6.1	204	3.1	189	10.2	9.1	3
4762.0	4.5	195	3.0	188	11.1	10.3	3
4764.0	15.1	185	3.0	188	12.3	11.8	1
4766.0	15.1	101	3.0	188	11.7	11.8	1
4768.0			3.0	188	11.4	11.2	
4770.0	10.3	316	3.0	189	11.2	10.6	2
4772.0	10.2	149	3.0	191	10.6	9.9	2
4774.0	3.4	108	2.9	192	10.5	9.3	2
4776.0	5.0	346	3.0	193	10.8	10.5	4
4778.0	3.9	176	2.9	194	11.3	11.9	4
4780.0	2.9	289	2.8	193	11.3	11.9	4
4782.0	2.5	354	2.9	192	10.7	10.6	4
4784.0	2.6	334	2.9	191	10.1	9.1	4
4786.0	3.1	321	3.1	190	9.9	9.0	4
4788.0	2.7	2	3.0	190	10.0	9.2	4
4790.0	3.4	39	2.9	191	10.0	9.3	4
4792.0	3.8	336	2.9	192	10.3	9.8	4
4794.0	3.3	319	2.8	191	11.0	11.0	4
4796.0	1.8	41	2.9	190	11.0	11.5	4
4798.0	0.8	248	3.0	192	10.5	10.2	4
4800.0	3.3	317	3.0	192	10.0	9.0	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
4802.0	4.1	328	2.9	192	10.4	10.0	4
4804.0			2.8	191	11.2	11.4	
4806.0	2.7	312	2.8	193	11.1	11.2	2
4808.0	3.5	342	2.9	196	10.5	10.2	4
4810.0	1.6	19	2.9	196	10.1	9.9	4
4812.0	0.7	327	2.8	195	9.9	9.9	4
4814.0	4.4	91	2.9	192	10.5	11.1	2
4816.0	4.0	327	2.9	191	10.8	11.3	4
4818.0	3.1	242	2.9	191	10.2	9.9	4
4820.0	1.8	351	2.9	191	9.7	9.1	4
4822.0	2.5	360	3.0	190	9.9	9.3	4
4824.0	5.3	15	3.1	189	9.9	9.4	4
4826.0	4.5	5	3.1	189	9.9	9.4	4
4828.0	1.5	257	3.0	191	10.0	9.3	4
4830.0	4.8	6	3.0	191	10.1	9.4	4
4832.0	2.9	338	3.0	190	10.0	9.5	4
4834.0	3.7	238	2.9	194	10.1	9.7	2
4836.0	2.3	121	3.0	195	10.5	10.4	4
4838.0	4.0	192	3.0	194	10.4	10.2	4
4840.0	0.6	159	2.9	194	10.4	10.0	4
4842.0	2.2	26	3.0	193	10.2	9.8	4
4844.0	1.1	216	3.0	193	9.8	9.4	4
4846.0	0.8	228	3.0	193	9.8	9.3	4
4848.0	0.9	112	3.0	193	9.8	9.4	4
4850.0	3.0	204	3.0	195	10.0	9.6	4
4852.0	3.3	341	3.0	195	10.0	9.6	4
4854.0	2.4	351	3.0	193	9.9	9.4	4
4856.0	1.3	26	3.0	193	9.7	9.2	4
4858.0	5.6	351	3.0	194	9.7	9.2	4
4860.0	1.4	272	3.0	194	9.9	9.4	4
4862.0	1.6	331	3.0	196	10.6	10.2	4
4864.0	3.3	79	3.0	196	10.4	10.3	4
4866.0	6.8	124	2.9	194	9.5	9.7	4
4868.0	2.4	111	2.9	194	9.6	9.9	4
4870.0	3.2	295	2.9	196	10.0	10.6	4
4872.0	0.6	256	2.9	197	9.7	10.4	4
4874.0	0.6	112	2.9	194	9.4	9.7	4
4876.0	2.8	116	2.9	194	9.5	9.7	4
4878.0	0.4	123	2.9	197	9.3	9.5	4
4880.0	8.6	230	3.0	199	9.3	9.3	4
4882.0	6.6	204	3.0	198	9.7	9.8	4
4884.0	5.4	129	2.9	196	9.8	10.0	4
4886.0	1.5	143	3.0	198	9.3	9.5	4
4888.0	0.3	28	3.0	199	9.3	9.3	4
4890.0	1.2	173	3.0	201	9.3	9.3	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
4892.0	1.6	13	2.9	199	9.4	9.4	4
4894.0	0.5	61	3.0	195	9.5	9.3	4
4896.0	1.2	111	3.0	195	10.3	9.8	4
4898.0	1.7	36	3.0	196	10.4	9.8	4
4900.0	1.9	35	2.9	195	9.7	9.2	4
4902.0	2.2	28	2.9	194	9.4	8.9	4
4904.0	1.9	66	3.0	194	9.1	8.8	4
4906.0	2.8	86	3.0	195	9.3	9.2	4
4908.0	3.4	110	3.0	194	10.0	9.9	4
4910.0	2.9	124	3.0	195	10.3	10.4	4
4912.0	1.9	137	3.0	195	9.9	10.1	4
4914.0	2.8	49	2.9	196	9.5	9.6	4
4916.0	3.7	45	3.0	195	9.2	9.3	4
4918.0	3.4	56	3.1	194	8.9	9.1	4
4920.0	2.6	28	3.0	194	8.8	9.0	4
4922.0	3.3	26	3.0	194	9.1	9.3	4
4924.0	2.8	33	3.0	195	9.2	9.7	4
4926.0	2.0	38	3.0	195	9.1	9.7	4
4928.0	2.4	31	3.1	195	8.9	9.4	4
4930.0	2.5	40	3.1	197	8.8	9.3	4
4932.0	3.3	50	3.1	197	8.8	9.2	4
4934.0	3.7	45	3.1	195	8.8	9.4	4
4936.0	2.2	89	3.0	195	8.8	9.7	4
4938.0	2.5	75	3.0	198	8.9	9.7	4
4940.0	2.9	70	3.0	200	8.9	9.5	4
4942.0	1.9	29	3.0	199	8.9	9.3	4
4944.0	1.8	63	3.0	195	8.9	9.2	4
4946.0	4.0	100	3.0	194	8.8	9.0	4
4948.0	4.3	71	3.0	196	8.8	8.9	4
4950.0	4.6	89	3.0	198	8.8	8.6	4
4952.0			3.0	199	8.2	8.2	
4954.0			3.0	199	7.8	8.0	
4956.0			3.0	197	7.8	7.9	
4958.0			3.0	194	7.8	8.0	
4960.0	2.6	350	3.0	193	7.8	7.9	2
4962.0	2.6	18	3.0	192	7.9	8.0	4
4964.0	1.6	51	3.0	192	8.5	8.5	4
4966.0	1.8	38	3.0	191	9.3	8.9	4
4968.0	1.5	49	3.0	191	9.7	9.1	4
4970.0	1.2	67	2.9	191	9.7	9.0	4
4972.0	1.6	358	2.9	192	9.6	8.9	4
4974.0	5.1	98	2.9	192	9.6	9.0	4
4976.0	13.8	27	2.9	193	9.7	9.3	2
4978.0	6.8	56	2.9	193	9.9	9.5	4
4980.0	7.1	59	3.0	193	10.8	9.7	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST
4982.0	1.2	23	3.0	194	10.5	9.5	4
4984.0	1.4	360	2.9	195	9.4	9.1	4
4986.0	2.2	352	3.0	196	9.4	9.1	4
4988.0	1.6	309	3.0	198	10.1	9.3	2
4990.0	2.1	291	3.1	198	10.8	9.3	4
4992.0	2.9	81	3.1	196	10.4	8.9	4
4994.0	1.6	65	3.0	196	9.7	8.9	4
4996.0	1.2	43	3.0	197	9.7	9.2	4
4998.0	1.8	6	3.1	197	9.9	9.5	4
5000.0	1.6	350	3.0	196	10.1	9.5	4
5002.0			3.0	196	10.0	9.5	
5004.0	1.9	6	2.9	196	9.9	9.5	4
5006.0	2.2	4	2.9	198	9.8	9.6	4
5008.0	1.5	355	3.0	197	9.6	9.4	4
5010.0	1.4	359	3.0	195	9.3	9.1	4
5012.0	2.1	340	3.0	195	9.2	9.2	4
5014.0	2.2	10	3.0	195	9.2	9.3	4
5016.0	2.3	33	3.0	195	9.2	9.3	4
5018.0	2.1	9	3.0	194	9.3	9.4	4
5020.0	2.8	9	3.1	194	9.5	9.5	4
5022.0	2.5	15	3.0	194	9.7	9.6	4
5024.0	2.2	16	3.0	195	9.7	9.6	4
5026.0	2.2	15	3.0	194	9.8	9.7	4
5028.0	2.0	20	3.0	194	9.7	9.7	4
5030.0	2.0	19	3.0	195	9.7	9.8	4
5032.0			3.0	196	9.5	9.5	
5034.0	4.3	42	3.0	196	9.2	9.3	4
5036.0	3.9	41	3.0	195	9.2	9.4	4
5038.0	3.0	25	3.0	195	9.3	9.5	4
5040.0	3.0	21	3.0	196	9.1	9.3	4
5042.0	2.3	18	3.0	195	9.1	9.3	4
5044.0	1.7	33	3.0	195	9.1	9.4	4
5046.0	1.7	73	3.0	196	9.2	9.5	4
5048.0	1.9	45	3.0	197	9.3	9.6	4
5050.0	2.8	48	3.0	197	9.3	9.6	4
5052.0	3.3	55	3.0	198	9.4	9.6	4
5054.0	2.5	84	3.0	197	9.4	9.6	4
5056.0	1.8	57	3.0	197	9.3	9.6	4
5058.0	1.9	8	3.1	197	9.3	9.6	4
5060.0	1.4	23	3.0	197	9.4	9.7	4
5062.0	2.2	17	3.0	197	9.4	9.7	4
5064.0	2.7	29	3.0	197	9.2	9.6	4
5066.0	3.5	58	3.0	197	8.9	9.3	4
5068.0	1.5	95	3.0	197	9.1	9.4	4
5070.0	1.2	65	3.0	196	9.3	9.6	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
5072.0	1.7	12	3.1	197	9.5	9.7	4
5074.0	1.5	35	3.1	196	9.3	10.0	4
5076.0	1.1	30	3.1	195	8.9	10.4	4
5078.0	0.8	323	3.0	196	8.8	9.9	4
5080.0	2.6	267	3.0	196	8.8	9.3	4
5082.0	0.3	115	3.0	196	8.9	9.4	4
5084.0	2.1	31	3.0	196	9.1	9.7	4
5086.0	2.7	19	3.0	196	9.3	9.7	4
5088.0	3.4	9	3.0	195	9.3	9.7	4
5090.0	4.7	360	3.1	195	9.4	10.2	4
5092.0	3.7	25	3.1	196	9.7	10.4	4
5094.0	4.4	4	3.1	196	9.7	10.2	4
5096.0	4.4	14	3.1	196	9.6	10.0	4
5098.0	5.5	282	3.0	196	9.6	9.9	4
5100.0	2.0	7	3.1	197	9.8	10.1	4
5102.0	2.4	25	3.2	198	9.9	10.3	4
5104.0	3.7	42	3.1	198	9.9	10.2	4
5106.0	3.4	67	3.2	197	9.8	10.0	4
5108.0	7.0	53	3.3	197	9.6	10.0	4
5110.0	2.6	7	3.3	197	9.5	9.9	4
5112.0	2.5	360	3.3	196	9.6	9.8	4
5114.0	1.8	15	3.2	196	9.6	9.8	4
5116.0	0.9	64	3.2	195	9.7	9.9	4
5118.0	1.1	80	3.2	194	9.8	10.2	4
5120.0	2.9	10	3.3	194	9.8	10.9	4
5122.0	3.0	357	3.3	193	9.9	11.5	4
5124.0	1.4	101	3.3	194	9.9	11.4	2
5126.0	3.5	70	3.2	196	9.9	11.1	2
5128.0	1.1	251	3.2	197	9.9	10.9	4
5130.0			3.2	197	10.0	10.6	
5132.0	2.8	26	3.3	197	9.9	10.2	4
5134.0	9.4	165	3.3	197	9.8	9.9	4
5136.0	4.2	192	3.3	198	9.9	10.0	4
5138.0	4.2	200	3.3	197	9.9	10.1	4
5140.0	5.0	132	3.3	196	9.9	10.1	4
5142.0	5.0	148	3.4	196	9.9	10.1	4
5144.0	2.0	180	3.3	196	9.8	10.0	4
5146.0	0.8	121	3.3	195	9.8	9.9	4
5148.0	1.1	47	3.3	194	9.9	10.9	4
5150.0	7.3	6	3.3	194	10.0	12.2	4
5152.0	7.6	360	3.3	196	10.3	12.5	2
5154.0	3.4	72	3.4	196	11.0	12.3	2
5156.0	7.8	23	3.4	196	11.2	12.0	2
5158.0	6.7	4	3.3	197	10.8	11.4	4
5160.0	4.0	333	3.3	196	10.9	11.0	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
5162.0	4.9	343	3.3	197	10.7	10.6	4
5164.0	3.4	249	3.3	199	10.3	10.2	4
5166.0	2.4	332	3.2	200	10.2	9.9	4
5168.0	3.0	308	3.4	199	10.2	9.8	4
5170.0	1.5	262	3.5	197	10.2	9.9	4
5172.0	3.7	150	3.5	193	10.2	9.9	3
5174.0			3.5	193	10.6	9.9	
5176.0	7.7	166	3.4	193	10.8	9.9	1
5178.0	12.7	144	3.4	193	10.5	9.9	1
5180.0			3.4	192	10.7	9.9	
5182.0	4.9	133	3.4	193	11.1	10.0	3
5184.0	7.5	163	3.4	195	11.4	10.4	3
5186.0	8.1	97	3.5	194	12.5	11.5	1
5188.0	7.3	149	3.5	196	12.4	12.0	3
5190.0			3.4	199	11.1	11.2	
5192.0	8.9	360	3.4	200	10.2	10.6	3
5194.0	2.9	7	3.4	200	10.3	10.4	1
5196.0	5.8	78	3.4	199	10.3	10.2	1
5198.0	8.5	59	3.4	196	10.2	10.0	4
5200.0	9.2	49	3.5	194	10.5	10.3	4
5202.0			3.5	195	11.4	11.4	
5204.0			3.5	198	11.5	11.7	
5206.0	9.7	17	3.5	199	10.9	10.8	2
5208.0	4.3	309	3.5	198	10.5	10.2	4
5210.0	4.3	351	3.5	196	10.4	10.1	4
5212.0	5.5	9	3.4	195	10.4	10.0	4
5214.0	2.2	287	3.4	197	10.3	9.9	2
5216.0	9.9	7	3.4	199	10.1	9.8	2
5218.0	10.1	49	3.4	200	10.0	9.8	4
5220.0	7.5	51	3.4	199	10.1	9.9	4
5222.0	1.4	86	3.5	198	10.1	9.8	4
5224.0	3.1	131	3.5	198	10.0	9.7	4
5226.0	1.9	302	3.5	199	10.0	9.7	4
5228.0	2.0	304	3.4	199	10.2	9.7	4
5230.0			3.4	199	10.3	9.8	
5232.0	1.3	169	3.4	197	10.2	9.8	4
5234.0	5.7	323	3.4	196	10.2	9.9	4
5236.0	5.2	224	3.4	195	10.1	9.9	4
5238.0	4.2	227	3.4	194	10.0	9.8	4
5240.0	2.3	176	3.4	194	10.0	9.7	4
5242.0	5.1	253	3.5	194	10.0	9.7	4
5244.0	1.7	319	3.5	195	9.9	9.7	4
5246.0	1.0	343	3.4	195	10.0	9.7	4
5248.0	1.6	279	3.4	194	10.0	9.8	4
5250.0	2.2	254	3.5	194	10.0	9.8	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
5252.0	1.8	21	3.5	194	10.1	9.8	4
5254.0	2.5	46	3.5	194	10.1	9.8	4
5256.0	1.8	42	3.5	193	10.0	9.8	4
5258.0	4.3	299	3.5	194	9.9	9.7	4
5260.0	3.7	255	3.5	194	10.0	9.7	4
5262.0	2.4	65	3.5	194	10.0	9.7	4
5264.0	2.6	68	3.4	194	10.0	9.8	2
5266.0	5.7	73	3.5	194	10.0	9.8	4
5268.0	5.9	81	3.5	196	10.0	9.8	4
5270.0	5.7	208	3.4	196	10.0	9.8	2
5272.0	10.7	188	3.4	196	10.1	9.9	3
5274.0	11.6	195	3.4	196	10.3	9.9	3
5276.0	3.1	38	3.4	196	10.8	9.9	4
5278.0	3.9	29	3.4	195	10.9	10.0	4
5280.0	4.8	117	3.4	195	10.4	10.0	4
5282.0	9.1	342	3.4	195	10.3	10.0	2
5284.0	4.6	340	3.4	195	10.4	10.0	4
5286.0	3.8	54	3.4	196	10.4	10.0	4
5288.0	2.4	55	3.4	196	10.4	9.9	4
5290.0	5.6	340	3.4	195	10.4	9.9	4
5292.0	2.2	57	3.4	193	10.9	10.0	4
5294.0	5.7	75	3.4	193	11.2	10.0	4
5296.0	5.6	12	3.5	195	11.0	10.0	2
5298.0	6.9	334	3.5	195	11.3	10.2	4
5300.0	7.5	339	3.4	196	13.0	10.8	4
5302.0	7.4	19	3.5	197	13.4	10.9	2
5304.0			3.5	197	11.6	10.2	
5306.0			3.5	195	10.7	10.0	
5308.0	5.3	272	3.5	196	11.0	10.0	4
5310.0	3.7	293	3.5	197	11.3	10.0	4
5312.0	11.1	8	3.5	197	10.9	10.0	2
5314.0	10.6	5	3.6	196	12.0	10.5	2
5316.0	3.2	281	3.6	195	12.8	10.5	4
5318.0			3.6	195	12.6	10.1	
5320.0			3.7	194	13.2	11.1	
5322.0	6.6	154	3.6	195	12.8	11.3	2
5324.0	9.4	123	3.5	196	11.9	10.2	1
5326.0	2.2	302	3.6	196	11.0	9.9	4
5328.0	1.6	62	3.5	197	10.6	9.9	4
5330.0	4.7	34	3.5	197	10.5	10.0	4
5332.0	2.5	72	3.6	197	11.0	10.1	4
5334.0	4.1	312	3.7	197	12.1	10.9	2
5336.0			3.7	196	13.2	11.7	
5338.0			3.5	196	13.2	11.8	
5340.0			3.7	196	12.9	11.9	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
5342.0			3.7	198	13.0	11.8	
5344.0	0.3	237	3.7	200	12.9	11.1	2
5346.0	2.6	26	3.6	199	12.4	10.7	4
5348.0	4.9	238	3.6	199	12.0	10.3	4
5350.0	3.8	271	3.5	199	12.1	10.1	4
5352.0	2.1	349	3.7	199	12.1	10.1	4
5354.0	3.1	322	3.7	199	12.0	10.1	4
5356.0	3.4	321	3.7	198	12.2	10.8	4
5358.0	6.9	169	3.8	197	12.3	11.4	1
5360.0	5.5	167	3.9	197	12.2	11.1	1
5362.0	9.0	178	3.9	197	12.2	11.1	3
5364.0	4.3	189	3.8	198	12.5	11.1	3
5366.0	1.8	310	3.8	198	12.8	10.7	3
5368.0	3.3	77	3.7	201	12.0	10.5	1
5370.0	7.3	80	3.7	202	11.7	10.8	1
5372.0	5.3	166	3.7	197	12.4	11.0	1
5374.0	6.7	7	3.7	196	11.8	10.6	1
5376.0			3.8	197	11.0	10.2	
5378.0	3.0	183	3.8	199	11.5	10.4	4
5380.0	4.4	251	3.7	198	12.1	10.6	4
5382.0	4.5	301	3.7	195	11.7	10.3	2
5384.0	10.0	21	3.9	195	11.9	10.5	4
5386.0	7.9	349	4.0	195	12.3	11.1	2
5388.0	1.6	295	3.8	195	12.4	10.6	4
5390.0	2.9	6	3.8	194	12.5	10.2	4
5392.0	3.4	323	3.8	195	11.7	10.2	4
5394.0	3.9	123	3.7	196	11.0	10.2	4
5396.0	3.7	335	3.7	197	11.0	10.2	4
5398.0	4.7	6	3.7	198	11.0	10.1	1
5400.0	2.1	9	3.7	199	10.9	10.1	3
5402.0	2.2	9	3.7	200	11.6	10.8	3
5404.0	3.8	52	3.7	197	12.5	11.5	3
5406.0	9.7	47	3.7	195	12.6	11.1	1
5408.0			3.7	196	11.9	10.4	
5410.0	12.9	174	3.6	195	11.1	10.1	1
5412.0	3.5	46	3.6	195	10.8	10.1	3
5414.0	4.8	198	3.7	195	10.9	10.1	1
5416.0	5.6	207	3.6	195	10.9	10.1	1
5418.0	12.0	242	3.6	196	11.3	10.1	4
5420.0	5.3	261	3.7	196	11.5	10.2	2
5422.0	2.6	237	3.8	195	11.8	10.4	2
5424.0	0.8	9	3.8	195	12.0	10.8	4
5426.0	2.3	230	3.8	196	11.4	10.7	4
5428.0	3.6	292	3.8	198	11.0	10.3	4
5430.0	3.7	291	3.7	200	11.3	10.3	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
5432.0	6.0	16	3.6	200	12.2	10.8	2
5434.0	4.2	157	3.6	200	12.0	10.9	2
5436.0	1.2	257	3.7	198	11.1	10.4	4
5438.0	1.2	31	3.7	200	11.1	10.4	4
5440.0	1.7	7	3.8	203	11.6	11.8	4
5442.0	8.0	290	3.7	202	11.5	12.3	2
5444.0	5.0	336	3.7	201	11.2	11.5	2
5446.0			3.7	199	11.2	11.3	
5448.0	9.9	332	3.7	198	10.9	11.1	4
5450.0	7.9	333	3.7	198	10.3	10.6	4
5452.0	2.2	78	3.8	197	9.9	10.2	4
5454.0	5.2	19	3.7	198	10.1	10.4	4
5456.0	5.1	8	3.7	200	10.7	11.0	4
5458.0	0.6	63	3.7	199	11.2	11.5	2
5460.0			3.8	198	11.2	11.5	
5462.0			3.8	197	11.2	11.8	
5464.0	6.6	116	3.8	197	11.2	11.8	4
5466.0	5.7	94	3.7	197	11.0	11.4	4
5468.0	3.4	88	3.7	196	10.3	10.9	4
5470.0	1.6	37	3.6	197	9.8	10.6	4
5472.0	3.6	346	3.6	198	9.8	10.7	4
5474.0	3.1	348	3.5	198	9.9	10.9	2
5476.0	3.2	164	3.6	198	9.9	10.9	4
5478.0	1.3	97	3.7	198	9.8	10.9	4
5480.0	4.6	103	3.6	200	9.7	10.6	4
5482.0	8.0	103	3.6	199	9.4	10.3	4
5484.0	0.4	95	3.6	197	9.6	10.4	2
5486.0	1.2	30	3.5	196	9.8	10.6	4
5488.0	2.2	341	3.5	197	9.9	10.9	4
5490.0	1.7	326	3.5	197	10.0	11.0	4
5492.0	2.2	295	3.5	197	10.1	11.0	4
5494.0	0.6	334	3.5	197	10.1	11.0	2
5496.0	0.7	263	3.5	197	10.1	11.0	4
5498.0	3.2	247	3.4	197	10.0	11.0	3
5500.0	3.3	273	3.4	197	10.0	10.9	3
5502.0	11.2	262	3.5	197	10.1	10.9	1
5504.0	11.1	264	3.5	198	11.0	11.2	1
5506.0	6.3	289	3.5	199	11.8	11.5	1
5508.0	6.5	108	3.6	201	11.3	11.4	1
5510.0	5.1	142	3.6	200	10.3	11.0	1
5512.0	3.8	267	3.6	201	10.4	10.6	3
5514.0	3.0	323	3.5	201	11.0	10.4	3
5516.0			3.5	199	11.4	10.5	
5518.0	6.0	222	3.5	199	11.6	10.9	4
5520.0	3.0	190	3.5	199	11.1	11.1	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
5522.0	19.3	84	3.5	200	10.3	11.1	3
5524.0	0.5	198	3.5	200	10.1	11.0	4
5526.0	1.8	204	3.6	198	10.2	11.0	4
5528.0	3.0	234	3.5	198	10.1	10.9	4
5530.0	2.5	272	3.5	200	10.0	10.9	4
5532.0	6.1	342	3.6	200	10.1	10.9	4
5534.0	1.7	236	3.6	200	10.1	10.9	4
5536.0	2.6	248	3.6	199	10.0	10.9	4
5538.0	7.6	71	3.7	197	10.1	10.9	4
5540.0	3.8	89	3.6	199	10.1	10.9	4
5542.0	10.2	67	3.6	201	9.8	10.7	4
5544.0	1.3	360	3.6	201	9.8	10.5	4
5546.0	3.8	66	3.6	200	9.8	10.5	4
5548.0	7.9	48	3.6	199	9.9	10.6	4
5550.0	6.9	354	3.5	199	9.9	10.6	4
5552.0	5.5	351	3.5	199	9.9	10.7	4
5554.0	6.9	360	3.5	199	9.9	10.7	4
5556.0	4.5	13	3.5	199	10.0	10.7	4
5558.0	2.7	100	3.6	198	10.0	10.5	4
5560.0	3.0	85	3.6	199	10.0	10.6	4
5562.0	2.8	73	3.5	199	10.1	10.6	4
5564.0	3.6	200	3.5	200	10.0	10.5	4
5566.0	1.9	193	3.5	200	10.0	10.6	4
5568.0	3.3	249	3.5	200	10.0	10.8	4
5570.0	2.4	334	3.6	201	10.0	10.5	4
5572.0	0.6	336	3.6	200	10.3	10.2	4
5574.0	2.2	120	3.6	199	10.7	10.2	4
5576.0	0.4	82	3.6	197	10.4	10.2	4
5578.0	7.5	167	3.5	197	11.1	10.3	1
5580.0	7.7	219	3.5	200	11.2	10.6	1
5582.0			3.5	199	10.0	10.6	
5584.0	1.6	62	3.5	199	10.7	11.3	1
5586.0	6.4	187	3.6	198	11.2	11.7	1
5588.0	18.8	177	3.6	198	10.5	11.0	3
5590.0	15.9	174	3.6	198	10.2	10.7	3
5592.0	3.4	328	3.5	198	10.1	10.7	3
5594.0	8.8	159	3.5	198	10.5	10.8	1
5596.0	14.4	188	3.5	198	11.3	11.1	1
5598.0	3.0	293	3.6	198	12.0	11.4	2
5600.0	6.0	229	3.6	199	11.1	11.4	2
5602.0			3.6	199	10.1	10.9	
5604.0	0.7	258	3.6	200	9.9	10.6	4
5606.0	0.6	83	3.6	201	9.9	10.6	4
5608.0	3.1	147	3.6	201	9.9	10.7	4
5610.0	1.0	118	3.6	200	9.9	10.9	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
5612.0	4.4	301	3.6	201	9.9	10.9	4
5614.0	5.2	273	3.6	200	9.8	10.8	4
5616.0	5.9	285	3.6	199	9.6	10.7	4
5618.0	4.7	293	3.6	198	9.5	10.6	4
5620.0	1.7	326	3.5	197	9.6	10.6	4
5622.0	2.1	286	3.5	197	9.5	10.6	4
5624.0	3.0	264	3.5	198	9.4	10.5	4
5626.0	1.8	76	3.5	198	9.7	10.6	4
5628.0	2.5	59	3.5	197	9.7	10.7	4
5630.0	4.1	88	3.5	198	9.7	10.8	4
5632.0	13.6	84	3.4	198	9.6	10.8	4
5634.0	15.2	72	3.4	198	9.5	10.5	4
5636.0	13.3	89	3.5	200	9.4	10.3	4
5638.0	12.9	74	3.5	200	9.4	10.4	4
5640.0	12.1	64	3.5	198	9.5	10.6	4
5642.0	15.3	131	3.5	198	9.6	10.8	1
5644.0	16.8	83	3.4	198	9.5	10.8	1
5646.0	9.6	61	3.4	198	9.4	10.8	3
5648.0	9.4	59	3.5	198	9.4	10.7	1
5650.0	8.1	37	3.5	198	9.5	10.6	1
5652.0	14.7	98	3.5	199	9.6	10.6	3
5654.0	14.6	108	3.5	199	9.6	10.5	1
5656.0			3.5	199	9.9	10.6	
5658.0	8.3	41	3.5	198	10.5	11.0	1
5660.0	11.4	72	3.4	198	10.8	11.1	3
5662.0	6.9	240	3.5	199	10.9	11.2	4
5664.0	7.0	242	3.5	200	10.5	11.0	4
5666.0	4.5	326	3.5	202	10.0	10.6	4
5668.0	4.3	318	3.5	201	9.9	10.5	4
5670.0	7.7	296	3.6	201	10.1	10.5	4
5672.0	11.5	290	3.5	202	11.2	10.8	2
5674.0	6.6	276	3.5	202	11.4	11.0	4
5676.0	7.6	224	3.5	203	10.8	11.0	4
5678.0	8.3	230	3.5	201	11.0	11.0	4
5680.0	6.3	236	3.6	200	11.1	10.6	4
5682.0	4.3	221	3.5	200	11.3	10.8	4
5684.0	3.5	180	3.5	201	11.1	11.2	4
5686.0	5.2	136	3.5	202	10.4	10.9	4
5688.0	2.1	156	3.6	202	10.1	10.6	4
5690.0	7.8	174	3.6	203	10.2	10.6	4
5692.0	8.0	203	3.5	204	10.2	10.7	4
5694.0	5.9	187	3.6	204	10.1	10.6	4
5696.0	1.1	139	3.6	204	10.0	10.3	4
5698.0	0.8	325	3.6	205	9.9	10.2	4
5700.0	3.0	206	3.7	205	9.9	10.2	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
5702.0	5.1	246	3.6	204	9.9	10.4	3
5704.0	3.6	203	3.5	204	10.0	10.5	3
5706.0	6.8	180	3.5	205	10.3	10.7	1
5708.0	7.3	150	3.5	203	11.4	11.3	1
5710.0			3.5	201	12.0	11.2	
5712.0	4.0	217	3.5	201	11.9	10.4	1
5714.0	9.5	275	3.5	200	11.4	10.2	1
5716.0	4.6	225	3.6	202	11.1	10.3	3
5718.0	5.2	180	3.6	204	10.9	10.4	3
5720.0	15.3	185	3.6	204	10.4	10.2	1
5722.0	3.3	345	3.6	203	10.2	10.0	4
5724.0	3.9	174	3.6	203	10.1	9.9	4
5726.0	2.2	130	3.6	203	10.1	10.0	4
5728.0	2.9	310	3.7	202	10.2	10.0	4
5730.0	4.6	320	3.7	201	10.2	10.0	4
5732.0	6.8	321	3.7	200	10.2	10.0	4
5734.0			3.6	199	10.6	10.0	
5736.0	10.1	307	3.7	200	11.7	10.2	2
5738.0	11.9	256	3.7	202	13.4	11.2	2
5740.0			3.6	203	12.9	11.0	
5742.0			3.6	202	11.0	10.0	
5744.0	7.5	227	3.6	202	10.9	9.9	4
5746.0	4.1	261	3.6	203	11.5	10.0	4
5748.0	6.3	360	3.6	202	11.3	10.1	2
5750.0	5.8	327	3.6	201	10.6	10.1	4
5752.0	6.4	329	3.6	203	10.6	10.1	4
5754.0	7.6	40	3.6	205	10.6	10.1	2
5756.0	6.2	193	3.8	204	10.4	10.0	2
5758.0	4.0	226	3.8	203	10.4	10.0	4
5760.0	3.9	251	3.7	204	10.3	10.0	4
5762.0	3.7	303	3.6	204	10.2	9.9	4
5764.0	8.4	355	3.7	204	10.3	9.9	2
5766.0	8.9	336	3.7	204	10.3	9.9	2
5768.0	4.1	15	3.7	204	10.4	9.8	2
5770.0	7.1	332	3.6	205	10.4	9.8	4
5772.0	7.2	323	3.6	206	10.2	9.7	4
5774.0	2.2	181	3.6	206	10.2	9.8	4
5776.0	5.9	188	3.6	205	10.3	9.8	2
5778.0	6.2	355	3.6	206	10.2	9.9	2
5780.0	1.3	90	3.6	208	10.2	9.9	2
5782.0	13.4	83	3.5	205	10.2	9.9	3
5784.0	4.1	27	3.6	203	10.3	9.9	4
5786.0	4.3	10	3.6	205	10.3	10.0	4
5788.0	2.2	352	3.6	205	10.2	10.0	4
5790.0	2.7	10	3.7	205	10.2	9.9	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
5792.0	2.9	65	3.6	206	10.1	9.9	4
5794.0	2.8	349	3.6	207	10.1	9.8	4
5796.0	5.3	241	3.6	209	10.1	9.8	4
5798.0	2.3	320	3.6	208	10.1	9.8	2
5800.0	1.2	10	3.6	206	10.1	9.7	4
5802.0	1.5	241	3.6	206	10.1	9.7	4
5804.0	4.4	244	3.6	206	10.1	9.7	4
5806.0	3.9	234	3.7	207	10.0	9.7	4
5808.0	3.9	225	3.7	207	10.0	9.8	2
5810.0	1.9	327	3.6	207	10.0	9.8	4
5812.0	2.5	329	3.6	206	10.1	9.8	4
5814.0	5.6	321	3.6	205	10.5	9.9	2
5816.0			3.6	204	10.4	9.9	
5818.0	7.7	222	3.6	204	10.2	9.9	2
5820.0	4.8	282	3.7	204	10.2	9.9	4
5822.0	3.3	275	3.7	204	10.1	9.8	4
5824.0	2.9	291	3.6	204	10.1	9.8	4
5826.0	3.2	328	3.7	204	10.0	9.7	4
5828.0	2.8	312	3.6	206	10.0	9.6	4
5830.0	2.4	334	3.6	206	10.0	9.6	4
5832.0	4.3	10	3.6	205	10.5	9.7	2
5834.0	4.2	305	3.6	205	11.5	9.8	2
5836.0	13.5	277	3.6	205	11.3	9.8	2
5838.0	5.4	302	3.6	206	10.4	9.8	4
5840.0	4.6	278	3.7	208	10.0	9.8	2
5842.0	3.6	306	3.6	208	10.0	9.8	4
5844.0	3.9	312	3.7	204	10.1	9.8	4
5846.0	5.9	317	3.7	204	10.1	9.7	4
5848.0	5.9	314	3.6	206	10.1	9.7	4
5850.0	5.9	316	3.6	206	10.1	9.7	4
5852.0	7.5	5	3.6	205	10.1	9.6	4
5854.0	8.0	4	3.8	205	10.0	9.5	4
5856.0	3.6	341	3.8	205	10.0	9.3	4
5858.0	2.9	356	3.6	206	10.1	9.4	4
5860.0	2.9	13	3.6	205	10.2	9.5	4
5862.0	6.3	23	3.6	205	10.2	9.4	4
5864.0	10.1	346	3.6	205	10.1	9.2	4
5866.0	12.1	347	3.6	204	10.1	9.2	4
5868.0	11.9	357	3.6	205	10.0	9.2	4
5870.0	7.6	356	3.6	205	10.0	9.2	4
5872.0	8.8	20	3.6	205	10.0	9.2	4
5874.0			3.6	205	10.0	9.3	
5876.0	1.0	158	3.6	204	10.1	9.4	4
5878.0	3.8	113	3.6	204	10.2	9.3	4
5880.0	5.9	93	3.6	204	10.4	9.5	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
5882.0	2.8	25	3.6	205	10.5	9.6	4
5884.0	0.8	5	3.6	205	10.4	9.6	4
5886.0	7.1	18	3.6	205	10.3	9.5	4
5888.0	7.1	17	3.6	205	10.3	9.4	4
5890.0			3.5	205	10.5	9.5	
5892.0			3.5	205	10.8	9.6	
5894.0			3.6	206	10.8	9.6	
5896.0	3.5	54	3.6	206	10.5	9.4	3
5898.0	7.6	334	3.6	206	10.3	9.3	1
5900.0			3.7	206	10.2	9.2	
5902.0			3.7	206	10.1	9.2	
5904.0	17.7	261	3.7	206	10.6	9.5	3
5906.0	16.7	263	3.6	206	11.2	10.1	3
5908.0	13.3	219	3.6	205	11.2	10.1	1
5910.0	6.9	242	3.6	206	11.0	9.9	3
5912.0	3.1	135	3.6	206	11.1	10.0	3
5914.0	2.4	27	3.6	206	11.1	10.0	4
5916.0	1.7	22	3.6	206	10.8	9.8	4
5918.0	7.7	51	3.6	205	10.8	9.7	4
5920.0	2.8	22	3.6	205	10.9	9.7	2
5922.0			3.6	205	11.1	9.7	
5924.0	12.0	160	3.6	205	11.1	9.7	2
5926.0	5.7	20	3.6	205	11.0	9.7	2
5928.0	3.3	248	3.6	205	10.7	9.6	2
5930.0	12.1	53	3.6	204	10.6	9.6	2
5932.0	6.3	293	3.7	205	10.4	9.6	2
5934.0	8.3	217	3.6	206	10.3	9.4	4
5936.0	9.5	207	3.6	205	10.3	9.5	4
5938.0	9.8	252	3.6	205	10.6	9.6	2
5940.0	3.7	16	3.6	205	10.8	9.6	4
5942.0	2.4	32	3.6	205	10.9	9.5	4
5944.0	2.4	263	3.6	205	11.0	9.6	4
5946.0	2.0	9	3.5	205	10.9	9.7	4
5948.0	7.1	350	3.5	205	10.7	9.5	4
5950.0	4.9	342	3.6	205	10.7	9.3	4
5952.0	4.0	298	3.5	205	11.0	9.5	4
5954.0	4.4	324	3.4	204	11.2	9.7	4
5956.0	10.0	27	3.5	204	11.2	9.7	4
5958.0			3.6	204	11.1	9.7	
5960.0	1.3	299	3.6	204	10.9	9.7	4
5962.0	1.5	317	3.5	204	10.9	9.7	4
5964.0	3.5	14	3.5	204	10.7	9.7	4
5966.0	5.8	258	3.6	204	10.7	9.8	4
5968.0	4.7	323	3.5	204	10.8	9.8	4
5970.0	2.7	335	3.5	204	10.9	9.8	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
5972.0	3.7	346	3.5	204	11.0	9.7	4
5974.0	5.5	318	3.5	204	11.1	9.8	4
5976.0	4.3	289	3.5	204	11.0	9.8	2
5978.0			3.5	204	10.8	9.8	
5980.0	8.5	30	3.5	205	10.6	9.7	2
5982.0	3.7	87	3.5	205	10.7	9.7	4
5984.0	0.8	330	3.5	206	11.0	9.7	4
5986.0	0.4	350	3.4	205	11.1	9.7	4
5988.0			3.4	205	11.0	9.8	
5990.0	6.5	35	3.5	205	11.0	9.9	4
5992.0	3.4	23	3.5	205	11.3	9.9	4
5994.0			3.5	205	11.3	10.0	
5996.0			3.5	204	10.9	10.0	
5998.0	3.3	294	3.4	204	10.6	9.9	4
6000.0	0.6	104	3.4	204	10.7	9.8	4
6002.0	0.4	59	3.4	204	10.9	9.8	4
6004.0	2.1	14	3.5	204	10.9	9.8	4
6006.0	7.6	73	3.5	205	10.9	9.9	4
6008.0	7.0	76	3.5	205	10.8	9.9	2
6010.0	6.1	337	3.5	205	10.6	9.8	4
6012.0	5.5	348	3.5	206	10.4	9.8	4
6014.0	1.4	50	3.5	207	10.3	9.7	4
6016.0	4.3	299	3.5	207	10.5	9.7	4
6018.0	9.5	349	3.5	206	11.1	9.8	2
6020.0	5.7	302	3.5	206	11.2	9.8	2
6022.0	0.9	312	3.6	205	10.8	9.8	2
6024.0	6.5	208	3.6	204	10.5	9.8	2
6026.0	1.4	343	3.6	203	10.5	9.9	4
6028.0	3.0	192	3.5	203	10.5	9.9	4
6030.0	1.4	170	3.5	203	10.5	9.9	4
6032.0	6.7	280	3.5	204	10.6	9.8	2
6034.0	6.1	282	3.5	204	10.5	9.7	2
6036.0	3.4	110	3.5	205	10.5	9.7	4
6038.0	3.4	12	3.6	205	10.5	9.7	4
6040.0	3.4	335	3.6	205	10.3	9.7	4
6042.0	4.9	354	3.6	204	10.2	9.5	2
6044.0	7.2	356	3.5	204	10.1	9.4	4
6046.0	3.8	47	3.5	203	10.1	9.4	4
6048.0	1.8	83	3.4	203	10.2	9.5	4
6050.0	3.9	94	3.5	202	10.3	9.6	4
6052.0	10.2	351	3.5	203	10.4	9.7	4
6054.0	8.3	8	3.6	204	10.4	9.8	3
6056.0	5.7	66	3.7	205	10.5	9.9	3
6058.0	6.1	80	3.6	204	10.8	10.1	1
6060.0	2.2	81	3.6	204	11.7	10.1	1

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
6062.0	4.3	239	3.6	203	12.4	10.0	3
6064.0	6.7	246	3.5	202	11.9	10.1	1
6066.0	5.8	40	3.6	203	11.8	10.5	1
6068.0	10.0	64	3.6	203	11.9	10.7	1
6070.0			3.6	201	11.2	10.1	
6072.0	7.0	71	3.6	202	10.5	9.9	1
6074.0	1.7	323	3.6	203	10.3	9.7	4
6076.0	3.6	321	3.6	203	10.2	9.6	4
6078.0	4.7	313	3.5	203	10.3	9.7	4
6080.0	4.4	353	3.6	203	10.5	9.8	4
6082.0	13.3	355	3.6	204	11.0	10.0	2
6084.0			3.5	205	11.0	10.1	
6086.0	13.3	342	3.6	203	10.5	10.0	2
6088.0	3.9	18	3.7	203	10.3	9.9	4
6090.0	5.3	359	3.7	203	10.4	9.9	4
6092.0	4.9	317	3.6	203	10.4	9.9	4
6094.0	8.1	8	3.6	204	10.4	9.8	3
6096.0	7.8	359	3.6	203	10.5	9.8	3
6098.0			3.6	203	10.7	9.9	
6100.0	8.7	293	3.5	203	10.8	9.9	1
6102.0	3.1	29	3.6	203	10.7	10.0	3
6104.0	3.2	47	3.6	203	10.6	10.0	3
6106.0	4.9	139	3.6	203	10.5	9.9	1
6108.0			3.5	203	10.4	9.6	
6110.0	10.3	254	3.6	203	10.5	9.8	1
6112.0	12.6	252	3.6	203	10.5	9.7	3
6114.0	2.3	121	3.6	203	10.4	9.7	4
6116.0			3.7	203	10.4	9.8	
6118.0	8.1	240	3.7	203	10.3	9.8	2
6120.0	3.4	88	3.6	203	10.3	9.7	2
6122.0			3.6	202	10.3	9.8	
6124.0	4.1	168	3.6	203	10.4	9.8	2
6126.0	8.0	156	3.6	203	10.3	9.7	4
6128.0	6.9	235	3.6	203	10.2	9.7	4
6130.0	8.1	232	3.6	202	10.3	9.7	4
6132.0	8.8	244	3.6	202	10.4	9.7	4
6134.0	14.5	217	3.6	202	10.5	9.8	2
6136.0	18.1	211	3.5	202	10.5	9.8	3
6138.0	4.6	234	3.6	202	10.5	9.7	4
6140.0	3.6	248	3.6	202	10.7	9.7	4
6142.0	3.8	115	3.6	202	10.8	9.8	4
6144.0	5.1	110	3.6	201	10.8	9.8	4
6146.0	0.6	213	3.6	201	10.6	9.8	4
6148.0	0.2	126	3.6	201	10.6	9.8	4
6150.0	6.3	234	3.6	201	10.6	9.9	2

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
6152.0	5.9	236	3.6	201	10.6	9.9	2
6154.0	9.1	225	3.6	201	10.6	9.9	2
6156.0			3.6	201	10.5	9.8	
6158.0	1.2	39	3.5	200	10.4	9.7	2
6160.0	2.3	261	3.5	200	10.5	9.7	4
6162.0	2.2	264	3.5	200	10.6	9.7	4
6164.0	9.9	219	3.5	201	10.5	9.7	4
6166.0	10.4	242	3.6	201	10.4	9.6	4
6168.0	5.3	192	3.6	200	10.4	9.3	4
6170.0	4.8	189	3.5	200	10.7	9.3	4
6172.0	3.7	32	3.6	201	10.9	9.5	4
6174.0	2.9	97	3.6	201	10.9	9.6	4
6176.0	6.4	80	3.6	200	10.7	9.6	4
6178.0	9.3	77	3.6	201	10.6	9.6	4
6180.0	2.5	13	3.6	202	10.7	9.7	4
6182.0	4.2	237	3.6	201	10.7	9.7	4
6184.0	2.2	125	3.6	201	10.7	9.7	4
6186.0	7.6	70	3.5	201	10.7	9.7	4
6188.0	3.0	323	3.5	200	10.7	9.7	4
6190.0	2.4	230	3.5	200	10.7	9.6	4
6192.0	1.1	55	3.5	200	10.7	9.6	4
6194.0	7.2	246	3.5	200	10.7	9.6	4
6196.0	7.6	229	3.5	201	10.7	9.5	4
6198.0	2.4	147	3.5	201	10.7	9.4	4
6200.0	2.4	122	3.5	200	10.9	9.4	4
6202.0	1.7	338	3.5	201	11.1	9.6	4
6204.0	1.7	284	3.5	201	11.1	9.6	4
6206.0	2.0	122	3.5	201	11.1	9.5	2
6208.0	4.3	239	3.5	201	10.9	9.5	4
6210.0	4.3	224	3.5	201	10.7	9.5	4
6212.0	13.8	359	3.6	201	10.8	9.6	3
6214.0	5.9	43	3.6	201	10.8	9.7	4
6216.0	1.5	93	3.5	201	10.8	9.7	4
6218.0	4.3	117	3.6	201	10.8	9.6	4
6220.0	8.8	95	3.6	201	10.8	9.6	2
6222.0	4.6	218	3.5	201	10.7	9.4	4
6224.0	3.7	219	3.6	201	10.5	9.1	4
6226.0	1.0	214	3.6	201	10.5	9.2	4
6228.0	1.3	357	3.5	201	10.5	9.2	4
6230.0	4.5	9	3.5	202	10.7	9.1	4
6232.0	6.6	10	3.5	202	10.8	9.2	4
6234.0	6.8	345	3.5	202	10.9	9.3	2
6236.0	3.6	300	3.6	201	11.0	9.4	2
6238.0	6.8	353	3.5	201	11.0	9.6	4
6240.0	7.8	342	3.6	200	10.9	9.7	4

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
6242.0	0.8	84	3.6	200	10.8	9.6	4
6244.0	0.7	119	3.6	200	10.7	9.4	4
6246.0	2.3	60	3.5	201	10.6	9.3	4
6248.0	4.6	65	3.5	201	10.6	9.3	4
6250.0	4.7	67	3.5	201	10.7	9.3	4
6252.0	4.9	63	3.5	201	10.7	9.2	4
6254.0	7.5	87	3.5	200	10.6	9.2	4
6256.0	7.7	95	3.5	201	10.6	9.2	4
6258.0	3.9	52	3.6	201	10.6	9.1	4
6260.0	4.8	52	3.6	200	10.5	9.1	4
6262.0	5.4	84	3.5	201	10.7	9.1	4
6264.0			3.5	202	10.8	9.1	
6266.0			3.6	201	10.9	9.2	
6268.0	9.2	76	3.5	202	10.9	9.2	4
6270.0	5.2	48	3.5	202	10.9	9.3	4
6272.0	4.9	21	3.6	202	10.9	9.4	4
6274.0	3.9	98	3.6	202	10.8	9.4	2
6276.0	5.7	65	3.5	202	10.8	9.4	4
6278.0	4.4	75	3.5	202	10.8	9.4	4
6280.0	9.4	332	3.5	202	10.9	9.3	3
6282.0	10.5	342	3.5	202	11.1	9.5	3
6284.0	14.6	341	3.5	202	11.1	9.6	3
6286.0			3.6	203	11.7	10.0	
6288.0			3.6	203	12.1	10.1	
6290.0	2.6	51	3.5	203	12.5	10.6	1
6292.0	4.9	32	3.4	203	12.7	10.9	1
6294.0			3.4	203	11.8	9.9	
6296.0			3.5	202	11.1	9.4	
6298.0	4.1	18	3.7	203	11.3	9.6	1
6300.0	3.0	75	3.6	202	11.4	9.6	3
6302.0			3.5	202	11.1	9.5	
6304.0			3.6	205	11.0	9.5	
6306.0	8.4	318	3.5	207	11.2	9.7	3
6308.0	5.9	324	3.5	207	12.2	10.7	3
6310.0			3.5	206	12.9	11.9	
6312.0	6.4	212	3.5	204	12.1	11.0	1
6314.0	12.7	345	3.5	204	11.3	9.6	1
6316.0			3.5	205	10.9	9.3	
6318.0	1.6	317	3.6	202	10.9	9.5	3
6320.0	2.2	321	3.6	202	10.9	9.7	4
6322.0	1.3	283	3.6	205	11.0	9.6	4
6324.0	1.4	359	3.6	206	11.0	9.6	4
6326.0	2.5	357	3.5	206	11.6	10.5	4
6328.0			3.6	205	12.6	11.2	
6330.0	2.6	8	3.7	205	12.8	10.4	4

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
6332.0	4.1	184	3.7	204	12.6	11.0	4
6334.0			3.7	203	12.3	11.2	
6336.0	3.0	108	3.6	204	11.4	10.1	4
6338.0	0.8	119	3.6	203	11.1	9.8	4
6340.0	2.0	314	3.6	203	11.4	10.2	3
6342.0			3.5	204	11.8	10.9	
6344.0			3.5	203	11.8	11.1	
6346.0			3.6	204	11.9	11.1	
6348.0	3.3	290	3.6	206	11.5	10.1	1
6350.0	4.0	341	4.0	206	11.0	9.5	3
6352.0	7.1	3	4.1	205	11.3	10.1	1
6354.0	1.0	212	3.6	206	11.2	9.9	3
6356.0	3.1	317	3.5	205	11.0	9.7	1
6358.0			3.6	204	11.6	10.0	
6360.0	8.6	332	3.5	204	11.9	10.0	2
6362.0			3.6	204	11.6	9.7	
6364.0	2.6	82	3.7	204	11.3	9.7	2
6366.0	2.9	128	3.7	205	11.1	9.7	4
6368.0	1.6	29	3.6	204	11.1	9.7	4
6370.0	2.7	21	3.5	202	11.5	9.8	4
6372.0	3.5	36	3.4	205	12.0	9.9	4
6374.0	6.6	329	3.5	207	11.6	9.8	4
6376.0	7.4	343	3.5	207	11.5	9.9	4
6378.0	2.9	352	3.6	207	11.8	10.0	4
6380.0	7.6	319	3.7	208	11.5	9.8	1
6382.0	20.3	11	3.7	207	10.9	9.6	3
6384.0	6.2	324	3.7	207	10.7	9.5	1
6386.0	1.3	128	3.6	207	10.8	9.7	3
6388.0	3.4	24	3.4	206	11.2	9.7	3
6390.0	4.3	23	3.5	206	11.3	9.7	3
6392.0	7.6	19	3.7	205	11.2	9.7	1
6394.0	8.2	22	3.7	205	12.2	10.9	1
6396.0			3.7	205	13.1	12.2	
6398.0	7.2	12	3.6	202	12.5	11.5	1
6400.0	3.6	20	3.6	202	11.8	10.2	2
6402.0			3.6	205	11.4	9.8	
6404.0	11.3	200	3.5	206	11.2	9.7	4
6406.0	6.4	174	3.6	206	11.3	9.8	4
6408.0	7.1	155	3.6	205	11.2	9.7	4
6410.0	3.0	227	3.6	203	11.0	9.6	4
6412.0	2.6	221	3.6	201	11.7	9.8	4
6414.0	11.3	175	3.6	202	12.2	10.6	2
6416.0	11.2	185	3.6	205	12.7	12.0	2
6418.0	8.6	194	3.6	206	12.7	11.8	4
6420.0	8.4	141	3.6	205	11.7	10.2	2

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
6422.0	3.8	19	3.6	205	11.1	9.4	2
6424.0	0.7	123	3.6	206	11.2	9.6	4
6426.0	0.9	146	3.6	205	11.5	9.8	4
6428.0	2.2	131	3.6	205	11.7	10.0	4
6430.0	2.5	185	3.6	206	11.3	9.8	4
6432.0	1.5	230	3.7	206	11.1	9.7	4
6434.0	2.3	91	3.8	209	11.1	9.6	4
6436.0	3.2	86	3.7	208	11.4	9.7	4
6438.0	3.4	12	3.7	204	11.4	9.8	4
6440.0	5.4	346	3.6	204	11.1	9.5	4
6442.0	7.0	335	3.5	204	10.7	9.1	4
6444.0	0.9	302	3.6	204	10.6	9.0	4
6446.0	0.9	314	3.7	203	10.6	9.2	4
6448.0	3.4	38	3.6	205	10.5	9.2	4
6450.0	2.0	44	3.6	206	10.7	9.2	4
6452.0	2.4	4	3.6	206	10.9	9.4	4
6454.0	12.4	8	3.6	206	11.1	9.6	2
6456.0	8.2	23	3.5	207	11.2	9.6	2
6458.0	4.3	253	3.5	206	11.2	9.6	4
6460.0	2.3	70	3.5	206	11.1	9.6	4
6462.0	1.3	82	3.5	206	11.1	9.6	4
6464.0	1.8	309	3.5	205	11.1	9.5	4
6466.0	1.4	315	3.5	205	11.0	9.4	4
6468.0	2.9	56	3.5	205	11.0	9.3	4
6470.0			3.5	205	11.1	9.5	
6472.0	3.7	178	3.5	205	11.1	9.6	2
6474.0	1.7	32	3.5	204	10.9	9.6	4
6476.0	4.9	25	3.6	204	10.6	9.6	4
6478.0	0.9	356	3.6	204	10.6	9.7	4
6480.0	0.6	187	3.6	204	10.5	9.6	4
6482.0	1.7	350	3.6	204	10.5	9.4	4
6484.0	3.8	339	3.5	203	10.7	9.5	4
6486.0	2.0	219	3.5	203	10.9	9.6	4
6488.0	2.0	219	3.5	203	11.1	9.7	4
6490.0	0.8	346	3.5	204	11.0	9.8	2
6492.0	2.5	55	3.5	203	10.8	9.8	4
6494.0			3.4	201	11.3	10.1	
6496.0	6.4	244	3.4	202	12.0	10.5	2
6498.0	5.6	14	3.3	203	12.0	10.1	4
6500.0	2.6	20	3.3	204	11.6	9.6	4
6502.0			3.4	204	11.1	9.8	
6504.0	5.6	7	3.5	204	10.7	9.6	4
6506.0	5.4	248	3.5	204	10.5	9.6	4
6508.0	2.7	77	3.5	204	10.4	9.6	4
6510.0	5.9	51	3.5	204	10.3	9.5	4

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
6512.0	5.7	340	3.5	204	10.3	9.4	4
6514.0	5.8	335	3.5	204	10.4	9.6	4
6516.0	16.0	216	3.6	204	10.6	9.7	3
6518.0	5.2	80	3.6	204	10.7	9.6	1
6520.0			3.5	203	10.7	9.6	
6522.0			3.5	204	10.7	9.7	
6524.0	6.5	269	3.5	204	10.8	9.6	1
6526.0	7.9	251	3.4	204	10.8	9.6	1
6528.0	12.2	258	3.4	204	10.7	9.6	1
6530.0	5.2	327	3.4	204	10.5	9.6	1
6532.0	4.7	337	3.4	204	10.5	9.6	1
6534.0	8.3	290	3.4	204	10.5	9.7	3
6536.0	13.2	290	3.4	203	10.5	9.8	1
6538.0	8.1	344	3.5	203	10.5	9.8	1
6540.0			3.5	204	10.5	9.8	
6542.0	7.6	108	3.5	203	10.4	9.7	1
6544.0			3.5	203	10.6	9.7	
6546.0			3.5	203	10.8	9.8	
6548.0			3.5	203	10.8	9.8	
6550.0	4.1	2	3.5	203	10.8	9.8	1
6552.0	8.6	5	3.5	204	10.8	9.8	3
6554.0	7.4	3	3.4	205	11.1	9.9	3
6556.0	10.5	2	3.3	204	11.2	9.8	3
6558.0	5.1	328	3.4	204	10.9	9.6	4
6560.0	4.4	303	3.5	204	10.6	9.5	4
6562.0	3.1	5	3.4	203	10.4	9.6	4
6564.0	2.8	26	3.4	203	10.3	9.6	4
6566.0	2.7	54	3.4	202	10.3	9.6	4
6568.0	2.7	358	3.5	202	10.3	9.7	2
6570.0	1.8	25	3.5	203	10.7	9.8	4
6572.0	4.0	74	3.5	204	10.8	9.9	2
6574.0			3.5	203	10.5	9.7	
6576.0			3.5	203	10.4	9.7	
6578.0	5.8	17	3.5	203	10.5	9.7	4
6580.0	3.8	294	3.5	202	10.5	9.7	4
6582.0	1.2	301	3.5	203	10.5	9.7	4
6584.0	3.5	45	3.4	203	10.8	9.7	4
6586.0	5.8	71	3.4	204	11.0	9.8	4
6588.0	6.1	22	3.4	204	11.1	9.7	4
6590.0	5.5	320	3.4	203	10.9	9.7	4
6592.0	7.0	319	3.5	203	10.7	9.8	4
6594.0	7.5	316	3.4	203	10.6	9.8	2
6596.0	5.5	275	3.5	203	10.4	9.8	4
6598.0	1.9	319	3.4	202	10.3	9.7	4
6600.0	1.5	2	3.4	202	10.3	9.6	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
6602.0	1.7	151	3.5	203	10.2	9.4	4
6604.0	0.6	60	3.5	203	10.2	9.3	4
6606.0	5.2	39	3.5	203	10.3	9.4	4
6608.0	4.2	27	3.5	203	10.3	9.4	4
6610.0	2.5	93	3.5	203	10.2	9.3	4
6612.0	4.2	70	3.5	203	10.2	9.2	4
6614.0	5.4	59	3.5	202	10.3	9.4	4
6616.0	3.3	85	3.5	203	10.7	9.9	4
6618.0			3.5	204	11.2	10.1	
6620.0	11.5	41	3.4	204	11.1	9.9	2
6622.0	4.7	41	3.3	204	10.8	9.9	4
6624.0	0.9	59	3.4	204	10.5	9.8	4
6626.0	4.3	112	3.4	203	10.3	9.6	4
6628.0	2.1	47	3.5	203	10.3	9.7	4
6630.0	4.9	357	3.5	203	10.3	9.8	4
6632.0	3.5	51	3.5	203	10.3	9.8	4
6634.0	5.8	58	3.4	203	10.3	9.7	4
6636.0	3.9	90	3.5	203	10.3	9.6	4
6638.0	0.9	79	3.5	204	10.3	9.6	4
6640.0	0.7	43	3.5	203	10.3	9.7	4
6642.0	1.5	187	3.5	203	10.3	9.7	4
6644.0	1.2	257	3.5	204	10.3	9.7	4
6646.0	4.4	4	3.5	203	10.3	9.7	4
6648.0	4.1	58	3.5	203	10.3	9.5	4
6650.0	3.3	135	3.5	202	10.4	9.5	4
6652.0	1.7	152	3.4	203	10.8	9.8	4
6654.0	8.1	138	3.4	204	10.8	9.9	4
6656.0	9.3	154	3.4	204	10.5	9.9	4
6658.0	3.3	142	3.4	204	10.6	9.9	2
6660.0	7.0	274	3.4	202	10.6	10.0	4
6662.0	16.5	254	3.4	201	10.4	9.9	3
6664.0	1.5	311	3.4	203	10.9	9.9	2
6666.0	5.9	107	3.4	202	11.2	9.9	4
6668.0	3.6	39	3.4	201	11.1	9.9	4
6670.0	9.2	9	3.5	204	10.6	9.9	2
6672.0	8.0	332	3.5	205	10.3	9.8	4
6674.0	8.4	2	3.5	205	10.3	9.7	4
6676.0	3.2	74	3.5	205	10.4	9.8	4
6678.0	2.7	103	3.4	205	10.4	9.8	4
6680.0	10.3	348	3.5	205	10.3	9.8	4
6682.0	11.2	335	3.5	205	10.3	9.8	4
6684.0	10.5	316	3.5	205	10.4	9.7	4
6686.0	11.6	345	3.5	206	10.4	9.7	4
6688.0	5.1	268	3.5	205	10.3	9.8	2
6690.0	3.8	352	3.5	205	10.3	9.8	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
6692.0	2.8	3	3.4	206	10.2	9.7	4
6694.0	12.9	20	3.4	206	10.2	9.7	4
6696.0	12.8	21	3.5	206	10.2	9.7	4
6698.0	8.9	43	3.5	206	10.2	9.7	2
6700.0	6.0	29	3.6	204	10.1	9.6	2
6702.0	9.6	340	3.6	202	10.2	9.7	4
6704.0	7.6	359	3.5	203	10.4	9.9	4
6706.0	5.3	9	3.4	205	10.4	10.0	4
6708.0	7.6	32	3.5	206	10.5	9.9	4
6710.0	5.0	71	3.5	207	10.6	9.9	4
6712.0	2.7	150	3.5	206	10.6	9.9	4
6714.0	2.7	321	3.4	207	11.1	9.9	4
6716.0	3.6	216	3.4	206	11.0	9.9	2
6718.0	4.1	252	3.5	206	10.3	9.8	4
6720.0	4.1	345	3.6	207	10.3	9.9	4
6722.0	10.1	22	3.6	207	10.3	9.8	4
6724.0	2.8	107	3.5	207	10.2	9.7	4
6726.0	3.9	38	3.5	207	10.1	9.6	4
6728.0	3.5	32	3.5	207	10.0	9.6	4
6730.0	2.7	21	3.5	208	10.0	9.4	4
6732.0	2.5	6	3.5	209	10.0	9.3	4
6734.0	2.7	349	3.5	209	10.1	9.4	4
6736.0	7.5	320	3.6	207	10.2	9.6	4
6738.0	6.2	351	3.7	205	10.3	9.7	4
6740.0	1.9	47	3.6	206	10.3	9.7	4
6742.0	2.5	49	3.4	206	10.3	9.8	4
6744.0	6.0	54	3.5	206	10.5	10.0	4
6746.0	5.9	53	3.4	208	10.3	9.9	4
6748.0	1.6	66	3.4	209	10.2	9.8	4
6750.0	3.2	204	3.5	208	10.4	9.9	4
6752.0	2.2	207	3.5	210	10.5	9.9	4
6754.0	2.2	24	3.5	213	10.2	9.8	4
6756.0	0.5	70	3.5	210	10.1	9.8	4
6758.0	0.2	154	3.5	210	10.2	9.8	4
6760.0	3.5	324	3.5	210	10.1	9.8	4
6762.0	4.1	289	3.5	207	10.1	9.7	4
6764.0	3.4	281	3.6	208	10.3	9.8	4
6766.0	1.9	338	3.5	208	10.6	10.0	4
6768.0	3.0	247	3.5	206	10.6	10.0	2
6770.0	7.8	141	3.5	205	10.4	10.0	2
6772.0	2.1	79	3.5	206	10.3	9.9	4
6774.0	3.5	360	3.5	207	10.1	9.6	4
6776.0	3.5	6	3.4	206	10.1	9.6	4
6778.0	4.3	8	3.4	207	10.1	9.4	4
6780.0	3.6	22	3.5	206	10.0	9.3	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
6782.0	3.1	14	3.5	205	10.1	9.5	4
6784.0	3.0	55	3.5	205	10.1	9.6	4
6786.0	2.5	147	3.5	205	10.0	9.6	4
6788.0	1.1	55	3.4	205	10.0	9.6	4
6790.0	4.1	14	3.5	205	10.0	9.5	4
6792.0	4.0	5	3.5	206	10.0	9.6	4
6794.0	2.0	331	3.5	206	10.1	9.6	4
6796.0	3.5	359	3.5	207	10.1	9.6	4
6798.0	3.7	54	3.5	207	10.2	9.6	4
6800.0	5.9	42	3.5	206	10.3	9.7	4
6802.0	6.2	274	3.5	205	10.4	9.7	4
6804.0	3.1	304	3.5	205	10.3	9.7	4
6806.0	1.8	351	3.5	204	10.2	9.6	4
6808.0	2.5	5	3.5	205	10.1	9.6	4
6810.0	3.8	5	3.4	205	10.1	9.7	4
6812.0	4.0	39	3.4	205	10.2	9.7	4
6814.0	3.5	65	3.4	205	10.1	9.7	4
6816.0	0.5	341	3.5	205	10.1	9.7	4
6818.0	6.4	243	3.5	205	10.1	9.6	4
6820.0	5.8	97	3.5	204	10.2	9.6	4
6822.0	5.4	101	3.5	205	10.2	9.6	4
6824.0	2.5	302	3.5	205	10.1	9.4	4
6826.0	2.7	339	3.5	205	10.1	9.4	4
6828.0	4.7	357	3.4	205	10.2	9.4	4
6830.0	2.8	129	3.3	205	10.5	9.4	4
6832.0	3.7	133	3.4	205	10.7	9.6	4
6834.0	4.0	38	3.4	205	10.6	9.7	4
6836.0	2.8	206	3.4	206	10.3	9.7	4
6838.0	5.1	116	3.5	206	10.2	9.6	4
6840.0	2.9	354	3.5	205	10.1	9.5	4
6842.0	5.8	28	3.4	205	10.2	9.7	4
6844.0	5.5	36	3.4	204	10.3	9.8	4
6846.0	3.5	357	3.4	204	10.2	9.8	4
6848.0	4.3	30	3.5	205	10.2	9.8	4
6850.0	2.7	192	3.6	205	10.3	9.9	4
6852.0	1.1	175	3.5	205	10.5	10.0	4
6854.0	9.5	277	3.5	205	10.4	9.8	2
6856.0	5.3	227	3.5	205	10.2	9.5	4
6858.0	1.7	315	3.5	207	10.3	9.5	4
6860.0	2.3	356	3.3	207	10.7	9.6	4
6862.0	1.0	106	3.3	205	11.0	9.7	4
6864.0	1.7	76	3.4	205	10.9	9.8	4
6866.0	3.6	94	3.5	206	10.7	9.8	4
6868.0			3.5	207	10.4	9.7	
6870.0			3.5	206	10.3	9.8	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
6872.0	2.1	219	3.6	203	10.4	10.0	2
6874.0	0.4	274	3.6	204	10.3	9.9	4
6876.0	2.6	318	3.5	206	10.2	9.7	4
6878.0	2.2	325	3.4	206	10.2	9.7	4
6880.0	7.4	351	3.4	205	10.2	9.8	4
6882.0	6.2	20	3.5	206	10.2	9.8	4
6884.0	3.4	305	3.6	207	10.3	9.8	4
6886.0	3.8	290	3.6	208	10.4	9.7	4
6888.0	2.3	323	3.6	209	10.4	9.7	4
6890.0	2.7	357	3.5	209	10.7	9.7	4
6892.0	1.5	155	3.4	208	11.0	9.8	4
6894.0	2.5	224	3.5	207	10.9	9.9	4
6896.0	9.1	264	3.4	205	11.2	10.2	4
6898.0	6.3	269	3.5	205	11.9	10.7	4
6900.0	6.5	318	3.5	207	11.5	10.4	4
6902.0	6.9	146	3.5	206	10.7	10.0	4
6904.0	6.3	59	3.6	205	10.4	10.0	4
6906.0	2.5	100	3.6	205	10.2	9.8	4
6908.0	2.4	13	3.5	207	10.2	9.8	4
6910.0	2.5	321	3.6	208	10.2	9.8	4
6912.0	3.4	22	3.6	209	10.2	9.7	4
6914.0	2.1	84	3.6	210	10.2	9.6	4
6916.0	1.5	89	3.6	207	10.5	9.7	4
6918.0	3.0	344	3.5	207	10.6	9.7	4
6920.0	10.9	20	3.5	206	10.8	9.6	2
6922.0	2.1	161	3.5	208	10.9	9.6	2
6924.0	1.0	193	3.5	204	10.8	9.4	4
6926.0	2.6	47	3.4	203	10.9	9.5	4
6928.0	5.7	7	3.4	203	10.7	9.5	4
6930.0	4.8	27	3.4	202	10.5	9.5	4
6932.0	4.8	80	3.4	202	10.4	9.5	4
6934.0	5.1	10	3.4	202	10.3	9.5	4
6936.0	4.2	27	3.5	202	10.2	9.4	4
6938.0	2.1	327	3.6	203	10.2	9.4	4
6940.0	2.5	323	3.5	203	10.2	9.4	4
6942.0	15.2	217	3.6	203	10.2	9.6	3
6944.0	0.7	4	3.5	203	10.3	9.6	4
6946.0	3.8	269	3.6	205	10.4	9.6	2
6948.0	5.6	282	3.5	208	11.1	9.8	2
6950.0	1.2	111	3.4	208	11.7	10.1	4
6952.0	2.9	358	3.5	206	11.3	9.8	4
6954.0	0.6	245	3.4	207	11.1	9.7	4
6956.0	1.7	214	3.4	206	11.5	9.9	4
6958.0	5.6	124	3.4	205	11.4	10.0	2
6960.0	6.0	270	3.4	205	10.9	9.9	2

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
6962.0	6.6	285	3.4	206	10.7	9.9	4
6964.0	3.5	283	3.5	207	10.9	10.0	2
6966.0	8.8	317	3.4	206	10.7	10.0	4
6968.0	3.8	52	3.5	207	10.4	9.9	2
6970.0	3.7	337	3.6	206	10.2	9.8	4
6972.0	5.5	331	3.5	205	10.4	9.9	4
6974.0	4.7	341	3.5	206	10.8	10.0	4
6976.0	1.1	183	3.6	206	10.7	10.0	4
6978.0	3.3	126	3.5	206	10.3	9.9	4
6980.0	2.8	280	3.4	206	10.2	9.5	4
6982.0	1.2	121	3.4	207	10.5	9.5	4
6984.0	2.5	140	3.4	207	11.5	9.7	4
6986.0	7.5	110	3.4	206	11.6	9.7	2
6988.0	6.9	147	3.4	206	11.1	9.6	4
6990.0	6.3	206	3.4	206	10.6	9.7	2
6992.0	3.2	360	3.4	206	10.1	9.6	4
6994.0	3.0	11	3.4	206	10.0	9.5	4
6996.0	4.2	11	3.4	204	10.0	9.5	4
6998.0	4.1	4	3.5	204	10.0	9.6	4
7000.0	4.8	346	3.5	207	10.5	9.7	4
7002.0	4.9	351	3.5	207	10.7	9.8	4
7004.0	4.3	343	3.5	206	10.3	9.8	4
7006.0	4.5	359	3.6	206	10.2	9.8	4
7008.0	8.3	12	3.5	206	10.3	9.8	4
7010.0	7.6	18	3.5	206	10.5	9.8	4
7012.0	6.8	97	3.4	208	11.3	9.8	4
7014.0	5.0	147	3.4	208	11.7	9.8	4
7016.0	3.4	177	3.4	207	11.9	9.9	4
7018.0	5.3	301	3.4	207	11.4	10.1	4
7020.0	7.6	275	3.5	207	10.6	9.9	4
7022.0	4.8	319	3.5	206	10.2	9.7	4
7024.0	4.8	1	3.5	206	10.1	9.6	4
7026.0	5.7	18	3.5	206	10.1	9.5	4
7028.0	4.5	318	3.5	209	10.1	9.7	4
7030.0	1.3	276	3.5	208	10.2	9.8	4
7032.0	1.4	352	3.5	207	10.0	9.7	4
7034.0	1.5	278	3.5	207	9.9	9.5	4
7036.0	2.1	162	3.5	206	9.9	9.4	4
7038.0	4.7	55	3.5	207	10.0	9.5	4
7040.0	2.2	58	3.4	208	10.1	9.4	4
7042.0	2.5	13	3.4	208	10.0	9.3	4
7044.0	1.7	6	3.5	206	9.7	9.0	4
7046.0	9.8	131	3.4	205	9.7	9.0	2
7048.0	3.3	292	3.4	206	10.4	9.4	4
7050.0	5.7	45	3.4	207	10.6	9.6	2

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
7052.0	3.2	73	3.4	205	10.1	9.6	4
7054.0	6.7	353	3.4	206	10.0	9.6	4
7056.0	5.1	345	3.3	207	10.1	9.7	4
7058.0	2.1	1	3.3	207	10.2	9.8	4
7060.0	8.1	325	3.3	206	10.2	9.8	4
7062.0	6.5	320	3.4	207	10.1	9.7	4
7064.0	3.2	111	3.4	207	10.0	9.6	4
7066.0	1.5	107	3.4	209	10.0	9.5	4
7068.0	2.5	78	3.4	209	10.1	9.5	4
7070.0	4.6	177	3.4	208	10.2	9.7	4
7072.0	6.1	175	3.4	207	10.1	9.6	4
7074.0	2.7	356	3.4	207	10.0	9.3	4
7076.0	5.5	20	3.3	206	10.0	9.3	4
7078.0	4.7	358	3.3	206	10.0	9.3	4
7080.0	8.6	61	3.4	207	10.1	9.2	4
7082.0	8.8	68	3.4	207	10.1	9.3	4
7084.0	1.4	218	3.4	207	10.1	9.4	4
7086.0	2.3	288	3.4	206	10.2	9.6	4
7088.0	3.4	287	3.4	207	10.2	9.7	4
7090.0	5.9	227	3.4	207	10.2	9.6	4
7092.0	9.3	259	3.4	206	10.2	9.5	4
7094.0	5.6	301	3.4	207	10.2	9.6	4
7096.0	3.0	356	3.3	208	10.1	9.6	4
7098.0	8.3	68	3.3	206	10.0	9.5	4
7100.0	8.4	72	3.4	206	10.1	9.5	4
7102.0	4.1	29	3.4	206	10.1	9.5	4
7104.0	3.0	34	3.4	207	10.0	9.3	4
7106.0	5.3	113	3.4	207	9.9	9.2	4
7108.0	13.1	99	3.3	206	9.9	9.3	4
7110.0	3.6	343	3.4	206	10.0	9.3	4
7112.0	3.8	342	3.4	206	10.1	9.5	4
7114.0	3.9	339	3.3	206	10.2	9.6	4
7116.0	3.5	336	3.3	206	10.2	9.6	4
7118.0	4.9	359	3.3	206	10.1	9.5	4
7120.0	6.2	359	3.4	207	10.2	9.5	4
7122.0	2.9	220	3.3	206	10.2	9.5	4
7124.0	4.6	142	3.3	206	10.1	9.4	4
7126.0	5.1	137	3.3	206	9.9	9.3	4
7128.0	2.8	14	3.4	205	9.8	9.2	4
7130.0	2.1	321	3.4	206	10.1	9.5	4
7132.0	3.3	41	3.3	206	10.3	9.7	4
7134.0	4.9	44	3.3	205	10.4	9.7	4
7136.0	3.2	18	3.3	204	10.2	9.7	4
7138.0	12.3	202	3.3	202	10.0	9.6	1
7140.0	2.4	356	3.3	201	10.1	9.6	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
7142.0	2.4	312	3.3	201	10.2	9.7	4
7144.0	5.8	343	3.3	202	10.2	9.7	4
7146.0	5.1	350	3.3	202	10.2	9.7	4
7148.0	3.1	21	3.3	203	10.2	9.7	4
7150.0	12.2	243	3.3	202	10.7	10.0	2
7152.0	3.2	220	3.3	202	11.1	10.4	4
7154.0	7.6	10	3.3	201	10.6	10.1	4
7156.0	2.4	7	3.3	200	10.2	9.7	4
7158.0	2.5	35	3.3	200	10.1	9.6	4
7160.0	2.8	49	3.3	200	10.1	9.6	4
7162.0	1.6	43	3.3	200	10.0	9.5	4
7164.0	2.0	178	3.3	200	10.0	9.4	4
7166.0	7.1	147	3.3	201	10.0	9.4	4
7168.0	8.2	141	3.3	201	10.0	9.5	4
7170.0	2.1	23	3.3	201	10.0	9.4	2
7172.0	2.8	357	3.3	201	10.2	9.6	4
7174.0	2.7	354	3.3	201	10.4	9.7	4
7176.0	1.3	151	3.3	200	10.4	9.8	4
7178.0	1.6	260	3.3	202	10.4	9.8	4
7180.0	3.2	226	3.3	203	10.8	9.8	4
7182.0	6.0	59	3.3	201	11.0	9.9	2
7184.0			3.3	200	10.8	9.8	
7186.0	3.0	356	3.3	200	10.6	9.9	4
7188.0	2.2	318	3.3	201	10.5	10.0	4
7190.0	3.9	333	3.3	201	10.4	9.9	4
7192.0	2.3	349	3.4	202	10.2	9.8	4
7194.0	2.4	9	3.4	201	10.2	9.7	4
7196.0	3.2	14	3.5	200	10.2	9.6	4
7198.0			3.4	201	10.1	9.6	
7200.0			3.5	201	10.1	9.5	
7202.0	6.2	21	3.5	200	10.2	9.6	4
7204.0	8.5	13	3.4	201	10.3	9.7	4
7206.0	4.3	325	3.4	201	10.3	9.6	4
7208.0	4.8	194	3.4	200	10.5	9.7	4
7210.0	2.7	201	3.3	200	10.8	9.8	4
7212.0	2.0	336	3.3	200	10.9	9.8	4
7214.0	3.6	1	3.3	201	10.9	9.8	4
7216.0	6.9	20	3.3	201	10.9	9.9	4
7218.0			3.3	199	10.6	9.9	
7220.0	1.8	7	3.3	199	10.3	9.8	4
7222.0	1.0	64	3.3	199	10.3	9.8	4
7224.0	6.3	57	3.4	200	10.4	9.9	4
7226.0	6.2	60	3.4	200	10.5	9.9	4
7228.0	1.4	63	3.4	200	10.2	9.8	4
7230.0	3.2	360	3.4	200	10.1	9.8	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
7232.0	8.8	25	3.5	200	10.2	9.8	4
7234.0	5.6	295	3.4	203	10.2	9.8	4
7236.0	3.1	318	3.4	204	10.6	9.9	2
7238.0	3.0	166	3.4	203	10.9	10.0	4
7240.0	8.5	112	3.4	203	10.9	10.0	2
7242.0	3.0	222	3.4	202	11.0	9.9	2
7244.0	10.0	356	3.4	201	10.6	9.8	2
7246.0	5.4	325	3.4	201	10.3	9.8	4
7248.0	2.7	314	3.3	201	10.2	9.8	4
7250.0	3.0	304	3.3	201	10.2	9.8	4
7252.0	3.7	289	3.3	202	10.2	9.8	4
7254.0	28.0	51	3.4	202	10.1	9.8	3
7256.0	7.4	26	3.4	202	10.0	9.6	4
7258.0	6.3	22	3.4	204	9.9	9.5	4
7260.0	4.6	28	3.5	204	9.8	9.4	4
7262.0	9.4	360	3.5	202	9.8	9.4	4
7264.0	9.4	357	3.4	200	9.9	9.6	4
7266.0	9.5	336	3.3	200	10.0	9.7	2
7268.0	10.3	316	3.3	202	10.0	9.6	4
7270.0	5.6	74	3.4	203	10.0	9.6	2
7272.0	7.8	26	3.4	204	10.1	9.7	2
7274.0	9.9	16	3.3	205	10.1	9.6	4
7276.0	12.7	349	3.4	205	10.0	9.6	2
7278.0	7.7	339	3.4	206	10.0	9.7	4
7280.0	4.9	339	3.3	206	10.0	9.7	4
7282.0	11.8	32	3.3	205	10.0	9.8	4
7284.0	17.1	11	3.3	204	10.0	9.8	4
7286.0			3.4	205	10.0	9.8	
7288.0	12.1	14	3.4	206	10.0	9.8	4
7290.0	15.3	24	3.4	206	9.9	9.7	4
7292.0	15.5	28	3.4	206	9.8	9.7	4
7294.0	9.1	29	3.4	206	9.9	9.7	2
7296.0	8.2	35	3.4	207	9.9	9.7	4
7298.0	4.9	30	3.4	207	9.9	9.7	4
7300.0	4.8	10	3.3	207	9.9	9.7	4
7302.0	4.5	1	3.3	207	10.0	9.7	4
7304.0	5.9	10	3.3	207	9.9	9.6	4
7306.0	0.2	146	3.4	207	9.9	9.5	4
7308.0	0.3	327	3.3	208	9.9	9.7	4
7310.0	3.2	352	3.4	208	9.9	9.7	4
7312.0			3.4	208	9.9	9.7	
7314.0	3.1	349	3.4	207	9.8	9.6	4
7316.0	3.5	289	3.4	208	9.7	9.6	4
7318.0	4.1	45	3.3	208	9.8	9.7	4
7320.0	4.0	29	3.3	207	9.8	9.6	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST
7322.0	1.1	283	3.4	207	9.8	9.6	4
7324.0	2.4	260	3.4	207	9.8	9.7	4
7326.0	2.6	48	3.3	207	9.9	9.7	4
7328.0	2.8	14	3.3	208	10.1	9.8	4
7330.0	5.2	52	3.3	207	10.1	9.8	4
7332.0	5.7	41	3.3	204	10.3	9.9	4
7334.0	3.8	32	3.3	204	10.3	9.9	4
7336.0	6.4	74	3.3	206	10.1	9.8	4
7338.0	3.7	52	3.3	206	10.1	9.8	4
7340.0	4.7	45	3.3	205	10.0	9.9	4
7342.0	3.9	348	3.3	204	9.9	9.8	4
7344.0	15.9	55	3.3	203	9.8	9.7	2
7346.0	9.4	51	3.2	202	9.8	9.7	4
7348.0	3.2	17	3.3	202	9.9	9.8	4
7350.0	3.5	15	3.3	201	10.0	9.8	4
7352.0	6.6	8	3.3	201	9.9	9.7	4
7354.0	7.2	1	3.3	201	9.8	9.7	4
7356.0	8.1	2	3.3	202	9.8	9.6	4
7358.0	5.6	318	3.3	203	9.8	9.6	2
7360.0	5.5	308	3.3	203	9.9	9.6	2
7362.0	7.6	39	3.3	203	9.9	9.6	4
7364.0	8.8	19	3.2	203	9.9	9.5	4
7366.0	5.7	18	3.3	204	9.8	9.5	4
7368.0	6.9	25	3.3	205	9.9	9.6	2
7370.0	10.4	94	3.3	207	9.9	9.6	4
7372.0	1.6	22	3.3	207	9.9	9.6	4
7374.0	4.2	138	3.3	207	10.1	9.7	4
7376.0	4.1	138	3.3	207	10.2	9.9	4
7378.0	8.3	73	3.3	207	10.3	10.0	4
7380.0	3.8	86	3.3	207	10.3	9.9	4
7382.0	1.8	71	3.4	207	10.2	9.9	4
7384.0	2.7	98	3.3	206	10.2	9.8	4
7386.0	2.9	351	3.3	205	10.2	9.8	4
7388.0	3.3	334	3.3	205	10.2	9.8	4
7390.0	2.2	166	3.3	203	10.2	9.7	4
7392.0	1.9	17	3.3	203	10.2	9.6	4
7394.0	2.2	13	3.3	205	10.3	9.6	4
7396.0	2.5	295	3.3	206	10.2	9.6	2
7398.0	5.6	318	3.3	205	10.2	9.7	4
7400.0	6.6	344	3.4	205	10.1	9.7	4
7402.0	1.9	332	3.3	206	10.2	9.7	4
7404.0	2.3	317	3.3	206	10.2	9.7	4
7406.0	1.8	333	3.3	205	10.4	9.7	4
7408.0	1.9	83	3.2	205	10.3	9.6	4
7410.0	4.5	347	3.3	205	10.2	9.5	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
7412.0	3.5	47	3.3	205	10.2	9.5	4
7414.0	2.9	57	3.2	205	10.2	9.4	4
7416.0	3.8	72	3.2	205	10.3	9.5	4
7418.0	5.7	86	3.3	205	10.2	9.4	4
7420.0	2.6	360	3.3	204	10.1	9.4	4
7422.0	3.9	95	3.3	204	10.3	9.5	4
7424.0	3.6	76	3.3	205	10.5	9.6	2
7426.0	6.7	335	3.3	204	10.6	9.7	4
7428.0	11.1	335	3.3	203	10.4	9.6	2
7430.0	3.6	9	3.3	202	10.1	9.4	4
7432.0	2.4	15	3.3	203	10.0	9.3	4
7434.0	2.7	1	3.3	203	10.1	9.4	4
7436.0	5.8	32	3.3	203	10.4	9.7	2
7438.0	5.8	34	3.3	203	10.5	9.8	2
7440.0	2.5	360	3.3	203	10.3	9.7	4
7442.0	2.7	39	3.3	201	10.2	9.6	4
7444.0	6.4	52	3.3	199	10.3	9.6	4
7446.0	5.7	41	3.3	199	10.4	9.5	4
7448.0	6.6	34	3.3	201	10.4	9.6	4
7450.0	5.4	285	3.2	203	10.4	9.7	4
7452.0	4.4	305	3.2	202	10.2	9.6	4
7454.0	4.5	355	3.3	200	10.4	9.6	4
7456.0	5.8	345	3.3	199	10.5	9.8	4
7458.0	0.7	262	3.3	198	10.6	9.8	4
7460.0	1.1	198	3.3	198	10.4	9.8	4
7462.0	2.5	265	3.3	198	10.2	9.7	4
7464.0	3.8	341	3.3	198	10.2	9.6	4
7466.0	5.9	2	3.3	198	10.1	9.6	4
7468.0	9.8	337	3.3	199	10.2	9.6	4
7470.0	11.8	343	3.4	201	10.2	9.6	4
7472.0	11.1	40	3.3	202	10.4	9.7	4
7474.0	5.9	335	3.3	201	10.9	9.8	4
7476.0	4.6	232	3.2	203	11.2	9.7	4
7478.0	4.3	198	3.3	202	10.8	9.6	4
7480.0	3.4	244	3.4	199	10.2	9.6	4
7482.0	6.7	330	3.3	199	10.0	9.6	4
7484.0	7.6	329	3.3	200	10.0	9.6	4
7486.0			3.3	201	10.1	9.6	
7488.0	7.6	19	3.3	202	10.1	9.7	2
7490.0	4.5	310	3.3	205	10.2	9.7	4
7492.0	3.0	359	3.3	207	10.2	9.7	4
7494.0	8.1	321	3.4	206	10.2	9.7	4
7496.0	6.9	289	3.4	204	10.1	9.6	4
7498.0	5.7	99	3.3	204	10.4	9.6	4
7500.0	3.1	59	3.2	205	11.1	9.8	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
7502.0	2.2	16	3.3	206	10.6	9.6	4
7504.0	1.6	279	3.2	207	10.3	9.4	4
7506.0	5.3	337	3.2	206	10.3	9.4	4
7508.0	7.7	20	3.3	205	9.6	9.0	2
7510.0	4.2	344	3.3	204	9.3	8.9	4
7512.0	5.4	318	3.3	203	9.5	9.2	4
7514.0	5.9	307	3.2	202	9.7	9.4	4
7516.0	7.4	275	3.2	202	9.4	9.1	4
7518.0	7.7	272	3.2	200	9.2	8.9	4
7520.0	3.0	267	3.2	202	9.6	9.0	4
7522.0	3.5	301	3.3	207	9.8	9.2	4
7524.0	2.8	32	3.3	208	9.4	9.1	4
7526.0	2.1	58	3.3	208	9.3	9.1	4
7528.0	3.3	74	3.3	209	9.4	9.2	4
7530.0	4.5	344	3.2	209	9.3	9.1	2
7532.0	5.4	329	3.2	209	9.4	9.2	4
7534.0	5.2	323	3.3	209	9.7	9.5	4
7536.0	2.8	290	3.2	209	9.8	9.5	4
7538.0	5.4	194	3.1	209	10.3	9.6	4
7540.0			3.1	207	10.4	9.6	
7542.0	7.9	179	3.2	205	9.8	9.5	4
7544.0	11.9	160	3.2	204	9.6	9.5	4
7546.0	6.7	322	3.2	206	9.8	9.6	4
7548.0	7.2	324	3.2	208	9.7	9.5	4
7550.0	1.1	66	3.2	210	9.7	9.4	4
7552.0	2.5	5	3.1	210	9.8	9.5	4
7554.0	3.8	322	3.1	207	9.8	9.6	4
7556.0	3.8	243	3.2	205	9.6	9.4	4
7558.0	5.0	208	3.2	205	9.2	9.1	4
7560.0	5.6	65	3.2	207	9.0	8.9	4
7562.0	6.1	74	3.1	209	9.4	9.3	4
7564.0	6.6	68	3.1	210	9.8	9.7	2
7566.0	12.4	44	3.1	207	9.4	9.5	2
7568.0	0.8	2	3.2	205	9.1	9.3	4
7570.0	2.2	71	3.2	207	9.0	9.3	4
7572.0	3.7	60	3.2	212	9.1	9.3	4
7574.0	9.3	62	3.2	213	9.2	9.3	4
7576.0	5.6	125	3.1	210	9.3	9.6	4
7578.0	5.9	124	3.1	208	9.4	9.7	4
7580.0	6.0	9	3.1	210	9.5	9.7	4
7582.0	6.1	34	3.1	210	9.8	10.0	4
7584.0	5.0	38	3.1	209	9.8	9.9	2
7586.0	4.6	72	3.1	211	9.7	9.8	4
7588.0	4.4	98	3.1	211	9.7	9.7	4
7590.0	1.7	53	3.1	211	9.5	9.4	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
7592.0	4.6	30	3.2	210	9.6	9.4	4
7594.0	4.4	22	3.2	210	9.6	9.4	4
7596.0	2.3	43	3.2	210	9.5	9.2	4
7598.0	9.0	28	3.2	209	10.0	9.4	2
7600.0	2.5	162	3.2	209	11.1	10.0	4
7602.0			3.2	210	10.8	9.9	
7604.0	1.0	353	3.3	210	9.7	9.3	4
7606.0	1.7	174	3.3	211	9.5	9.2	2
7608.0	16.0	202	3.3	211	9.5	9.2	3
7610.0	8.2	106	3.3	212	9.5	9.2	4
7612.0	7.4	83	3.3	213	9.5	9.3	4
7614.0	6.7	341	3.3	211	9.5	9.2	3
7616.0	5.9	331	3.3	210	9.7	9.3	3
7618.0	5.0	6	3.3	212	9.8	9.5	1
7620.0	6.4	310	3.3	212	9.9	9.9	1
7622.0			3.2	208	10.0	10.1	
7624.0			3.2	206	10.0	10.0	
7626.0			3.2	209	10.1	10.4	
7628.0	1.8	306	3.3	212	10.0	10.2	1
7630.0	7.6	14	3.3	209	9.4	9.3	1
7632.0	8.3	357	3.3	208	9.1	9.1	3
7634.0	9.0	341	3.3	210	9.4	9.5	4
7636.0	2.4	347	3.3	212	9.6	10.1	4
7638.0	4.5	54	3.3	211	9.7	10.8	4
7640.0	6.1	36	3.4	209	9.7	10.5	4
7642.0	7.9	19	3.4	211	9.6	9.8	4
7644.0	2.9	303	3.3	212	9.5	9.7	4
7646.0	1.9	84	3.4	211	9.5	9.7	4
7648.0	5.7	57	3.3	210	9.5	9.7	4
7650.0	7.4	28	3.3	210	9.6	9.9	2
7652.0			3.3	211	9.5	9.8	
7654.0	1.1	222	3.3	212	9.2	9.3	4
7656.0	2.5	119	3.4	212	9.1	9.1	4
7658.0	7.3	51	3.5	211	9.2	9.4	4
7660.0	8.3	47	3.6	211	9.3	9.5	4
7662.0	5.2	44	3.6	211	9.3	9.4	4
7664.0	3.2	345	3.4	211	9.3	9.2	4
7666.0	3.0	318	3.3	211	9.4	9.2	4
7668.0	2.1	333	3.3	211	9.4	9.3	4
7670.0	1.4	85	3.3	210	9.5	9.3	4
7672.0	2.1	43	3.4	211	9.8	9.4	4
7674.0	1.6	27	3.3	211	9.8	9.5	4
7676.0	2.3	213	3.3	211	9.7	9.5	4
7678.0	2.3	218	3.2	211	9.6	9.4	4
7680.0	5.3	41	3.3	210	9.4	9.2	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
7682.0	6.2	34	3.3	207	9.2	9.1	4
7684.0	10.5	12	3.2	206	9.1	8.9	2
7686.0	17.3	53	3.2	208	9.0	8.8	3
7688.0	18.0	59	3.3	210	9.0	8.9	3
7690.0	1.9	301	3.3	212	9.1	8.9	2
7692.0	6.6	259	3.3	212	9.3	9.1	4
7694.0	4.7	264	3.3	211	9.5	9.3	4
7696.0	4.0	13	3.3	209	9.4	9.2	4
7698.0	2.7	70	3.3	209	9.4	9.2	4
7700.0	1.7	174	3.3	212	9.4	9.3	2
7702.0	4.5	34	3.2	213	9.5	9.5	4
7704.0	8.0	265	3.2	211	9.8	9.7	2
7706.0	7.5	38	3.2	207	9.8	9.7	4
7708.0	1.0	9	3.1	207	9.6	9.8	4
7710.0	2.3	14	3.2	212	9.5	9.8	4
7712.0	9.2	35	3.2	214	9.3	9.6	2
7714.0	3.7	226	3.2	215	9.1	9.6	4
7716.0	3.3	231	3.2	215	9.2	9.8	4
7718.0	1.3	329	3.3	213	9.4	9.7	4
7720.0	1.6	265	3.2	210	9.6	9.9	4
7722.0	1.4	253	3.2	211	9.6	9.8	4
7724.0	4.4	14	3.2	214	9.2	9.3	4
7726.0	1.8	93	3.2	213	9.0	9.1	4
7728.0	2.3	179	3.3	212	9.2	9.1	4
7730.0	2.3	177	3.3	214	9.5	9.4	4
7732.0	2.0	293	3.2	214	9.5	9.4	4
7734.0	3.4	225	3.2	213	9.4	9.2	4
7736.0	2.8	211	3.2	213	9.4	9.2	4
7738.0	4.5	344	3.2	212	9.7	9.3	4
7740.0	5.5	185	3.2	213	10.1	9.4	2
7742.0	2.4	53	3.2	214	10.5	9.5	2
7744.0	8.2	180	3.2	217	10.5	9.6	4
7746.0	9.8	168	3.2	217	10.1	9.5	4
7748.0	10.1	158	3.3	213	9.7	9.4	4
7750.0	6.5	142	3.3	212	9.6	9.5	4
7752.0	5.9	128	3.3	215	9.7	9.6	4
7754.0	2.4	143	3.3	213	9.6	9.6	4
7756.0	10.9	163	3.4	210	9.2	9.3	4
7758.0	4.5	30	3.4	209	9.2	9.6	4
7760.0	5.0	343	3.4	208	9.6	10.4	4
7762.0	4.0	309	3.3	208	9.7	10.2	4
7764.0	5.5	94	3.4	211	9.5	9.7	2
7766.0	4.9	36	3.4	214	9.4	9.6	4
7768.0	5.9	27	3.3	214	9.6	10.0	4
7770.0	5.4	29	3.3	212	9.7	10.6	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	GOAL. INDEX BEST =4
7772.0			3.4	209	9.5	10.4	
7774.0	4.4	60	3.4	208	9.4	9.7	4
7776.0	8.0	24	3.3	210	9.5	9.9	4
7778.0	7.6	27	3.3	212	9.5	9.8	4
7780.0	5.5	111	3.4	214	9.5	9.6	4
7782.0	4.3	103	3.5	215	9.4	9.5	4
7784.0	6.5	34	3.5	214	9.3	9.4	4
7786.0	4.3	25	3.4	213	9.4	9.5	3
7788.0	1.8	98	3.3	213	9.5	9.6	1
7790.0			3.3	213	9.2	9.3	
7792.0	11.5	302	3.3	214	9.0	9.1	1
7794.0	14.0	310	3.3	214	9.0	9.1	3
7796.0	13.1	307	3.3	214	9.2	9.3	3
7798.0	12.5	51	3.3	214	9.2	9.2	3
7800.0	10.9	49	3.3	212	9.1	9.1	3
7802.0	3.5	11	3.3	211	9.2	9.1	3
7804.0	4.4	347	3.2	210	9.3	9.0	3
7806.0	6.9	21	3.3	210	9.4	9.2	4
7808.0	2.8	36	3.3	211	9.3	9.1	2
7810.0	7.9	2	3.3	210	9.2	9.0	4
7812.0	6.4	41	3.2	208	9.0	8.9	4
7814.0	5.3	55	3.2	207	8.9	8.8	2
7816.0	4.9	35	3.2	209	9.0	9.0	4
7818.0	6.8	7	3.3	211	9.3	9.2	4
7820.0	3.0	52	3.2	210	9.6	9.3	4
7822.0	0.7	67	3.2	208	9.8	9.3	4
7824.0	3.0	20	3.2	209	9.6	9.3	4
7826.0	9.4	321	3.2	209	9.3	9.2	4
7828.0	9.8	327	3.3	206	9.2	9.1	4
7830.0	10.6	322	3.3	206	9.1	9.0	4
7832.0	11.8	317	3.2	209	8.9	8.9	4
7834.0	6.2	285	3.2	212	8.8	8.8	4
7836.0	5.6	208	3.2	211	8.9	8.8	4
7838.0	3.5	265	3.2	209	8.9	9.0	4
7840.0	2.0	184	3.3	211	8.9	9.0	2
7842.0	2.5	160	3.3	212	8.9	9.1	4
7844.0	12.1	106	3.3	211	8.9	9.1	2
7846.0	4.1	87	3.3	211	8.9	9.0	2
7848.0	8.9	285	3.3	212	8.9	8.9	4
7850.0	10.2	280	3.3	212	8.9	8.9	4
7852.0	1.8	360	3.2	211	9.1	9.0	4
7854.0	3.7	38	3.2	211	9.2	9.1	4
7856.0	1.5	55	3.2	212	9.4	9.2	4
7858.0	5.0	88	3.3	214	9.7	9.5	4
7860.0	5.3	74	3.2	212	9.8	9.5	4

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
7862.0	2.2	277	3.2	211	9.7	9.4	4
7864.0	2.4	234	3.3	212	9.4	9.2	4
7866.0	4.3	252	3.3	210	9.4	9.2	4
7868.0	4.0	65	3.2	206	9.5	9.3	4
7870.0	4.5	61	3.2	209	9.5	9.3	4
7872.0	4.0	44	3.3	211	9.4	9.3	4
7874.0	4.2	212	3.3	210	9.4	9.6	4
7876.0	2.9	198	3.3	207	9.6	10.0	4
7878.0	3.7	9	3.3	208	9.6	10.2	4
7880.0	4.7	34	3.4	211	9.4	9.7	4
7882.0	1.4	44	3.4	211	9.3	9.3	4
7884.0	3.3	136	3.3	209	9.2	9.3	4
7886.0	0.2	275	3.3	208	9.3	9.3	4
7888.0	1.4	305	3.3	209	9.4	9.5	4
7890.0	12.7	22	3.3	210	9.5	9.6	4
7892.0	11.7	23	3.3	210	9.5	9.6	4
7894.0	6.3	54	3.3	209	9.2	9.4	4
7896.0	4.7	100	3.3	209	9.0	9.1	4
7898.0	5.9	104	3.3	208	9.2	9.2	4
7900.0	6.9	23	3.3	207	9.4	9.4	4
7902.0	4.8	360	3.3	207	9.4	9.3	4
7904.0	3.1	233	3.3	208	9.7	9.4	2
7906.0	1.3	346	3.3	208	10.3	9.5	4
7908.0	4.0	1	3.3	207	10.2	9.6	4
7910.0	6.1	354	3.3	206	10.1	9.5	4
7912.0	2.9	239	3.3	203	9.9	9.6	4
7914.0	1.7	195	3.2	201	9.7	9.6	4
7916.0	2.9	134	3.2	204	9.6	9.4	4
7918.0	2.4	124	3.2	206	9.5	9.2	4
7920.0	0.6	132	3.2	207	9.5	9.3	4
7922.0	1.9	323	3.3	206	9.7	9.5	4
7924.0	3.4	121	3.3	203	9.6	9.4	4
7926.0	5.0	87	3.3	203	9.4	9.2	2
7928.0	10.1	265	3.3	203	9.2	9.2	2
7930.0			3.3	205	9.3	9.3	
7932.0	5.6	29	3.3	205	9.6	9.5	4
7934.0	3.8	355	3.2	204	9.5	9.5	4
7936.0	2.2	303	3.3	203	9.4	9.5	4
7938.0	2.0	301	3.2	204	9.5	9.6	4
7940.0	7.6	355	3.2	206	9.5	9.6	4
7942.0	7.7	3	3.2	207	9.5	9.6	4
7944.0	5.4	97	3.3	206	9.4	9.5	4
7946.0	5.1	352	3.2	206	9.2	9.3	4
7948.0	2.1	138	3.2	207	9.1	9.4	4
7950.0	2.3	143	3.2	207	9.4	9.7	4

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
7952.0	4.4	124	3.3	208	9.3	9.5	4
7954.0	3.7	60	3.3	208	9.2	9.2	4
7956.0	1.5	54	3.4	208	9.1	9.2	4
7958.0	9.4	236	3.4	208	9.1	9.2	4
7960.0	1.8	236	3.3	209	9.1	9.2	4
7962.0	0.5	313	3.3	209	9.3	9.3	4
7964.0	0.3	343	3.3	210	9.6	9.4	4
7966.0	2.4	69	3.3	211	9.7	9.4	4
7968.0	4.8	73	3.3	210	9.5	9.3	4
7970.0	3.8	11	3.4	210	9.1	9.1	4
7972.0	3.4	5	3.4	211	9.1	9.1	4
7974.0	1.8	118	3.4	209	9.2	9.2	4
7976.0	3.6	137	3.4	210	9.1	9.1	4
7978.0	6.0	159	3.4	210	9.2	9.7	4
7980.0			3.4	206	9.3	10.0	
7982.0	1.7	283	3.4	207	9.2	9.6	4
7984.0	1.1	244	3.4	209	9.1	9.4	3
7986.0	1.6	16	3.4	209	9.0	9.3	3
7988.0			3.4	208	8.9	9.1	
7990.0	11.5	37	3.4	208	8.9	9.0	3
7992.0	10.4	5	3.4	209	8.9	8.9	1
7994.0	6.4	195	3.4	209	8.9	8.9	3
7996.0	7.7	192	3.4	207	8.9	8.9	3
7998.0	4.8	262	3.4	206	8.9	8.9	1
8000.0	13.7	44	3.4	206	8.9	8.8	1
8002.0	14.6	56	3.4	207	8.9	8.9	3
8004.0	13.5	49	3.4	207	9.1	9.0	4
8006.0	5.4	7	3.3	206	9.3	9.3	4
8008.0	1.7	122	3.3	205	9.2	9.3	4
8010.0	8.7	119	3.4	205	9.0	9.1	2
8012.0	7.9	14	3.3	205	9.0	8.9	2
8014.0	4.0	40	3.3	204	9.4	9.1	4
8016.0	4.6	32	3.3	202	10.0	9.4	4
8018.0	3.8	10	3.3	200	9.8	9.4	4
8020.0	4.0	9	3.3	199	9.6	9.4	4
8022.0	4.5	9	3.3	200	9.7	9.4	4
8024.0	6.7	344	3.3	200	9.7	9.4	4
8026.0	5.0	61	3.4	200	9.7	9.4	2
8028.0	6.0	58	3.3	199	9.5	9.4	4
8030.0	3.5	354	3.3	198	9.2	9.1	4
8032.0	3.9	360	3.3	199	9.0	9.0	4
8034.0	6.1	6	3.3	199	9.3	9.3	4
8036.0	8.7	22	3.3	199	9.6	9.4	2
8038.0	6.8	41	3.3	201	9.4	9.3	4
8040.0	6.4	43	3.4	203	9.4	9.3	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8042.0	6.0	316	3.4	203	9.5	9.2	4
8044.0	1.0	67	3.4	203	9.6	9.2	4
8046.0	7.7	74	3.4	201	9.6	9.2	4
8048.0	1.2	119	3.4	202	9.3	9.1	2
8050.0	11.4	254	3.4	204	9.1	9.0	3
8052.0	12.9	65	3.4	203	9.1	9.0	4
8054.0	12.8	60	3.4	202	9.0	9.0	4
8056.0	4.8	99	3.4	204	9.0	9.1	4
8058.0	5.4	93	3.3	205	9.3	9.4	4
8060.0	2.5	261	3.3	204	9.5	9.5	4
8062.0	4.8	330	3.4	203	9.2	9.3	2
8064.0	5.4	345	3.4	205	9.1	9.2	2
8066.0	3.4	348	3.4	206	9.1	9.2	4
8068.0	1.4	251	3.4	207	9.0	9.1	4
8070.0	3.1	31	3.3	207	9.0	9.1	4
8072.0	3.4	22	3.3	206	9.1	9.4	4
8074.0	2.6	286	3.3	206	9.2	10.1	4
8076.0	6.1	11	3.5	206	9.3	10.3	2
8078.0	5.3	47	3.5	207	9.4	9.9	4
8080.0	4.4	37	3.4	208	9.4	9.5	4
8082.0	4.9	33	3.4	208	9.1	9.2	4
8084.0	3.7	180	3.4	208	9.1	9.0	4
8086.0	3.5	170	3.4	208	9.6	9.2	4
8088.0	1.2	99	3.4	209	9.9	9.4	4
8090.0	1.5	37	3.3	209	9.4	9.1	4
8092.0	2.0	139	3.3	210	9.0	8.9	4
8094.0	2.2	128	3.4	211	9.2	9.0	4
8096.0	2.1	280	3.5	209	9.2	9.0	4
8098.0	3.3	29	3.5	208	9.1	9.0	4
8100.0	2.6	38	3.4	210	9.0	9.0	4
8102.0	3.6	59	3.3	208	9.0	9.0	4
8104.0	7.4	33	3.5	205	9.1	9.3	4
8106.0	4.6	44	3.5	207	9.2	9.6	4
8108.0	1.5	199	3.5	209	9.1	9.7	2
8110.0	1.1	155	3.4	207	9.2	9.9	2
8112.0	7.3	34	3.4	207	9.1	9.6	4
8114.0	6.6	21	3.4	210	9.0	9.2	4
8116.0	6.1	13	3.4	207	8.9	9.0	4
8118.0	7.0	21	3.4	206	9.0	9.1	4
8120.0	5.7	29	3.4	208	9.2	9.4	4
8122.0	3.7	43	3.3	209	9.7	9.7	4
8124.0	4.5	42	3.4	209	9.9	9.9	4
8126.0			3.4	209	9.8	9.7	
8128.0	5.7	209	3.4	208	9.6	9.7	2
8130.0			3.4	207	9.2	9.4	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8132.0	3.0	328	3.4	207	9.0	9.2	4
8134.0	2.4	327	3.4	206	9.1	9.1	4
8136.0	5.2	1	3.4	206	9.3	9.2	4
8138.0	10.5	14	3.4	207	9.7	9.3	4
8140.0	4.4	323	3.4	207	10.1	9.3	4
8142.0	6.6	354	3.4	204	10.1	9.3	4
8144.0	0.5	335	3.4	203	10.0	9.4	4
8146.0	0.8	199	3.4	205	10.2	9.4	4
8148.0	0.5	185	3.5	204	9.8	9.3	4
8150.0	3.1	20	3.4	202	9.2	9.1	2
8152.0	7.3	182	3.4	204	9.3	9.1	4
8154.0	1.3	266	3.4	207	9.4	9.1	4
8156.0	2.4	21	3.4	208	9.5	9.1	4
8158.0	6.0	143	3.5	206	9.4	9.0	2
8160.0	20.9	116	3.5	204	9.1	9.0	1
8162.0	23.2	109	3.5	204	9.1	8.9	3
8164.0	22.1	110	3.4	206	9.0	8.9	3
8166.0	16.8	104	3.5	204	8.9	8.9	3
8168.0	3.9	93	3.7	201	8.9	9.0	2
8170.0	2.5	132	3.7	202	9.0	9.1	4
8172.0	3.3	81	3.7	203	9.0	9.1	4
8174.0	2.1	52	3.7	205	9.0	9.2	4
8176.0	3.6	85	3.6	207	8.9	9.0	4
8178.0	8.3	70	3.6	207	8.9	8.9	2
8180.0			3.6	207	8.9	8.9	
8182.0	3.4	287	3.6	208	8.9	8.9	4
8184.0	2.1	256	3.6	208	9.1	9.2	4
8186.0	1.9	18	3.6	209	9.3	10.1	4
8188.0	8.4	245	3.6	208	9.4	10.3	2
8190.0	10.1	354	3.6	207	9.3	9.6	2
8192.0	6.7	4	3.6	207	9.1	9.3	2
8194.0	6.3	318	3.5	208	9.2	10.1	2
8196.0	3.7	27	3.5	207	9.3	10.4	2
8198.0	7.0	26	3.5	205	9.4	9.9	4
8200.0	3.7	37	3.5	205	9.4	9.7	4
8202.0	1.7	325	3.5	206	9.4	9.7	4
8204.0	2.3	308	3.5	205	9.3	10.0	4
8206.0	3.1	318	3.5	205	9.3	10.2	3
8208.0	3.1	22	3.5	206	9.1	9.6	3
8210.0	3.2	24	3.5	206	9.2	9.6	3
8212.0	4.9	27	3.5	205	9.3	9.6	1
8214.0	19.9	2	3.4	205	9.3	9.4	1
8216.0	8.2	5	3.4	206	9.3	9.5	1
8218.0	5.5	87	3.4	207	9.2	9.4	3
8220.0	7.2	93	3.4	207	9.1	9.3	3

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8222.0	12.8	98	3.4	207	9.0	9.2	1
8224.0	13.3	84	3.4	207	8.9	9.0	1
8226.0	14.5	88	3.4	207	8.9	8.9	1
8228.0	8.0	77	3.4	207	8.8	8.7	1
8230.0	14.5	77	3.4	207	8.8	8.7	1
8232.0	15.1	73	3.5	207	8.8	8.7	1
8234.0	11.0	87	3.5	206	8.9	8.8	3
8236.0	13.6	79	3.4	207	8.9	8.8	3
8238.0	12.7	71	3.4	206	8.9	8.7	3
8240.0			3.3	206	8.9	8.8	
8242.0			3.4	209	8.9	8.8	
8244.0			3.4	210	8.9	8.7	
8246.0			3.4	211	8.9	8.8	
8248.0	5.7	65	3.4	208	8.9	8.8	2
8250.0	11.7	77	3.4	206	8.9	8.8	4
8252.0	7.5	55	3.4	205	8.9	8.8	4
8254.0	5.3	39	3.4	202	9.0	8.9	4
8256.0	3.5	14	3.4	201	9.1	9.4	4
8258.0	6.0	50	3.4	202	9.1	9.6	4
8260.0	4.6	46	3.4	202	9.2	9.3	4
8262.0	3.7	42	3.3	203	9.3	9.4	4
8264.0	7.6	360	3.4	203	9.8	10.4	4
8266.0	5.6	38	3.3	203	11.5	12.0	4
8268.0	9.1	326	3.4	203	10.9	11.2	2
8270.0	6.9	357	3.4	202	9.1	9.4	2
8272.0	5.2	37	3.4	205	9.0	9.2	4
8274.0	5.1	12	3.4	206	9.0	9.2	4
8276.0	7.8	5	3.5	203	9.0	9.2	4
8278.0	7.6	360	3.5	203	9.0	9.1	4
8280.0			3.5	204	9.0	8.9	
8282.0	11.0	10	3.4	204	9.1	8.9	2
8284.0	3.3	33	3.4	205	9.5	9.1	2
8286.0	6.2	54	3.5	205	9.4	9.2	2
8288.0	2.9	17	3.4	203	9.1	9.1	4
8290.0	3.2	9	3.5	202	9.2	9.2	4
8292.0	3.4	21	3.5	204	9.2	9.2	4
8294.0	7.8	360	3.4	206	9.2	9.2	4
8296.0	8.3	359	3.4	206	9.3	9.2	4
8298.0	5.8	352	3.5	205	9.3	9.2	2
8300.0	3.0	243	3.4	203	9.4	9.2	2
8302.0	4.9	28	3.4	203	9.8	9.3	4
8304.0	7.3	34	3.4	202	9.7	9.2	4
8306.0	2.3	54	3.4	201	9.4	9.2	4
8308.0	2.8	8	3.4	200	9.5	9.2	4
8310.0	3.9	61	3.4	199	9.6	9.2	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8312.0	6.4	32	3.4	199	9.7	9.3	4
8314.0	6.2	18	3.4	200	10.0	9.3	4
8316.0			3.4	202	10.0	9.3	
8318.0	5.2	45	3.4	202	9.7	9.2	4
8320.0	4.4	346	3.4	201	9.5	9.2	4
8322.0	3.6	336	3.4	203	9.3	9.1	4
8324.0			3.4	204	9.3	9.1	
8326.0	5.7	325	3.4	202	9.4	9.6	4
8328.0	5.6	346	3.4	204	9.4	9.6	2
8330.0	0.4	311	3.4	205	9.4	9.7	4
8332.0	6.3	10	3.3	204	9.7	11.2	4
8334.0	12.0	34	3.3	203	9.7	10.8	2
8336.0	6.6	331	3.4	203	9.3	9.4	4
8338.0			3.4	204	9.4	9.4	
8340.0	9.9	26	3.5	205	9.3	9.6	4
8342.0	9.7	4	3.4	206	9.2	9.8	4
8344.0	1.6	186	3.4	207	9.2	9.7	2
8346.0	1.2	174	3.4	207	9.2	9.8	4
8348.0	2.3	329	3.4	206	9.2	9.8	4
8350.0	3.0	279	3.4	206	9.2	9.7	4
8352.0	3.1	45	3.5	206	9.2	9.7	4
8354.0	6.1	44	3.5	207	9.2	9.9	4
8356.0	3.3	235	3.4	208	9.3	10.1	2
8358.0	3.7	337	3.4	208	9.2	9.9	4
8360.0	4.7	24	3.4	207	9.2	9.6	4
8362.0	4.7	51	3.5	207	9.2	9.4	4
8364.0	3.4	93	3.4	206	9.2	9.4	4
8366.0	4.4	115	3.3	206	9.3	10.0	4
8368.0			3.4	206	9.3	10.0	
8370.0	4.5	313	3.5	206	9.2	9.4	4
8372.0	3.9	215	3.4	206	9.2	9.5	4
8374.0	3.5	225	3.4	205	9.2	10.0	4
8376.0	2.5	15	3.5	205	9.3	10.3	4
8378.0	5.8	24	3.4	205	9.3	10.3	4
8380.0	3.3	33	3.4	206	9.2	10.1	4
8382.0	7.4	50	3.3	206	9.1	9.6	4
8384.0	6.9	20	3.3	206	9.0	9.3	4
8386.0	9.7	272	3.4	206	9.0	9.2	4
8388.0	17.9	259	3.4	206	8.9	9.2	4
8390.0	4.2	253	3.3	206	9.0	9.6	4
8392.0	1.2	299	3.4	206	9.1	9.6	4
8394.0	2.0	335	3.5	206	9.1	9.3	4
8396.0	3.7	12	3.5	206	9.0	9.2	4
8398.0	2.5	22	3.4	207	9.0	9.4	4
8400.0	2.8	1	3.4	207	9.1	9.6	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8402.0	4.2	60	3.4	207	9.2	10.2	2
8404.0	17.1	327	3.4	207	9.3	10.7	2
8406.0	3.2	9	3.3	207	9.3	10.1	4
8408.0	5.0	86	3.3	207	9.2	9.5	4
8410.0	2.7	86	3.3	208	9.2	9.4	4
8412.0	3.1	32	3.4	208	9.2	9.4	4
8414.0	1.5	139	3.3	208	9.2	9.5	4
8416.0	1.3	37	3.3	208	9.3	9.7	4
8418.0	4.3	334	3.3	208	9.3	9.7	4
8420.0	4.4	277	3.4	208	9.3	9.8	4
8422.0			3.4	208	9.4	10.3	
8424.0	0.8	129	3.4	208	9.3	10.1	4
8426.0	4.7	192	3.5	209	9.3	9.7	4
8428.0	4.9	197	3.4	209	9.3	10.2	4
8430.0	6.4	22	3.3	210	9.3	11.5	2
8432.0	18.6	37	3.3	209	9.3	11.3	2
8434.0	3.9	13	3.4	209	9.2	10.2	4
8436.0	4.2	39	3.4	208	9.2	10.2	4
8438.0	10.9	345	3.4	208	9.2	9.9	4
8440.0	3.4	27	3.5	208	9.1	9.5	2
8442.0	7.4	63	3.4	208	9.0	9.4	4
8444.0	6.7	61	3.4	208	9.0	9.3	4
8446.0	6.2	315	3.4	209	8.9	9.3	4
8448.0	3.7	330	3.4	211	9.0	9.4	4
8450.0	4.3	50	3.5	211	9.1	9.5	4
8452.0	7.2	85	3.5	209	9.3	9.6	4
8454.0	6.4	110	3.4	209	9.4	10.1	4
8456.0	6.4	55	3.3	209	9.9	11.0	4
8458.0	13.5	360	3.4	210	9.9	11.8	2
8460.0	2.8	39	3.3	210	9.5	12.2	4
8462.0	4.1	36	3.3	209	9.3	11.9	4
8464.0	8.4	130	3.3	210	9.3	11.6	2
8466.0	3.4	28	3.3	209	9.4	11.3	2
8468.0	2.7	104	3.3	209	9.4	10.5	4
8470.0	8.2	248	3.3	209	9.5	10.1	4
8472.0	19.2	163	3.4	209	9.5	10.2	3
8474.0	1.6	3	3.3	209	9.4	10.9	2
8476.0	4.4	63	3.4	208	9.4	11.4	4
8478.0	1.0	141	3.6	209	9.3	11.0	4
8480.0	9.1	205	3.6	209	9.3	10.4	4
8482.0			3.6	208	9.3	9.8	
8484.0	6.5	307	3.6	208	9.3	9.6	4
8486.0	3.4	300	3.5	209	9.2	9.4	4
8488.0	2.1	18	3.4	209	9.0	9.2	4
8490.0	2.4	34	3.3	210	9.0	9.5	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8492.0	0.6	337	3.4	211	9.0	9.4	4
8494.0	2.0	288	3.4	210	9.0	9.1	4
8496.0	11.1	79	3.5	208	8.9	9.0	4
8498.0	2.9	143	3.4	209	8.8	8.8	4
8500.0	2.1	166	3.4	209	8.8	8.8	4
8502.0	3.6	15	3.3	209	8.8	8.8	2
8504.0	3.9	75	3.4	208	8.9	9.0	4
8506.0	5.8	69	3.3	208	9.0	9.8	2
8508.0	4.3	359	3.2	209	9.0	10.2	4
8510.0	1.8	129	3.3	208	9.1	9.8	4
8512.0	3.3	194	3.3	206	9.2	9.4	4
8514.0	5.1	195	3.3	206	9.3	9.3	4
8516.0	2.5	169	3.3	207	9.2	9.2	4
8518.0	3.2	69	3.3	210	9.0	9.1	4
8520.0	6.3	281	3.4	210	9.0	9.1	4
8522.0	5.6	253	3.3	210	9.0	9.1	4
8524.0	6.4	85	3.2	210	9.0	10.0	2
8526.0	6.4	58	3.3	210	9.2	11.1	2
8528.0			3.5	209	9.3	10.7	
8530.0	13.0	15	3.5	210	9.3	10.1	1
8532.0	8.3	71	3.4	209	9.3	10.0	3
8534.0	5.3	87	3.3	208	9.3	10.5	3
8536.0	0.8	160	3.3	208	9.7	12.0	1
8538.0	3.3	296	3.3	207	9.9	11.9	1
8540.0	5.6	61	3.4	207	9.6	10.3	1
8542.0	3.2	23	3.4	209	9.3	9.7	1
8544.0	7.0	70	3.4	209	9.3	9.6	3
8546.0	7.4	70	3.5	209	9.4	9.7	3
8548.0	6.9	50	3.5	210	9.4	9.9	1
8550.0	14.8	11	3.4	209	9.4	10.0	3
8552.0	6.4	22	3.4	209	9.4	9.9	1
8554.0	5.8	33	3.4	209	9.3	9.7	1
8556.0	9.6	319	3.6	208	9.2	9.3	1
8558.0	8.5	307	3.6	209	9.2	9.1	1
8560.0	4.3	43	3.5	208	9.1	8.9	3
8562.0	1.6	55	3.5	208	10.4	9.7	1
8564.0	2.4	25	3.3	209	11.6	10.5	1
8566.0	5.6	342	3.3	209	10.6	9.8	1
8568.0			3.3	208	11.8	9.8	
8570.0			3.3	209	14.6	12.0	
8572.0	11.4	293	3.4	210	13.2	11.3	3
8574.0	17.4	51	3.4	211	10.4	9.1	1
8576.0	10.8	285	3.4	213	9.7	9.0	1
8578.0	9.6	60	3.4	213	9.4	9.0	1
8580.0	12.2	63	3.4	212	9.1	8.9	3

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
8582.0	10.3	73	3.4	211	9.0	8.9	3
8584.0	11.8	66	3.5	209	8.9	8.9	1
8586.0	12.7	332	3.5	210	8.9	8.9	1
8588.0	12.2	322	3.5	211	8.9	8.9	1
8590.0			3.6	207	8.9	8.8	
8592.0	6.4	76	3.6	205	8.9	8.8	2
8594.0	2.9	343	3.5	205	8.8	8.8	2
8596.0	5.1	264	3.4	206	8.8	8.9	2
8598.0	11.6	34	3.4	208	8.8	9.0	4
8600.0	4.4	353	3.4	210	8.9	9.1	4
8602.0	6.5	15	3.4	211	8.9	9.3	4
8604.0	7.2	7	3.4	209	9.0	10.1	4
8606.0	1.9	320	3.3	206	9.0	10.2	2
8608.0	4.0	88	3.4	206	8.9	9.4	4
8610.0	3.6	17	3.4	206	8.8	9.0	4
8612.0	4.9	5	3.4	206	8.8	8.9	4
8614.0	4.8	339	3.4	207	8.8	8.8	4
8616.0	1.8	6	3.4	210	8.4	8.1	4
8618.0	3.9	48	3.3	212	7.7	6.6	4
8620.0	1.9	322	3.3	211	7.8	6.5	4
8622.0	2.3	290	3.3	209	8.7	7.8	4
8624.0	5.2	84	3.3	208	9.6	8.7	2
8626.0	6.4	323	3.3	205	10.5	8.9	4
8628.0	5.4	157	3.3	201	10.3	8.9	2
8630.0	10.0	309	3.3	201	9.6	8.9	4
8632.0	7.2	334	3.3	201	9.6	8.9	4
8634.0	17.2	78	3.3	202	9.7	8.9	1
8636.0	17.1	86	3.2	202	9.9	8.9	1
8638.0			3.2	203	10.1	8.9	
8640.0	16.0	85	3.2	204	9.8	9.0	1
8642.0	13.5	78	3.2	205	10.8	9.0	1
8644.0			3.2	205	11.4	9.0	
8646.0	17.6	67	3.3	201	10.4	9.0	1
8648.0			3.4	201	9.7	9.0	
8650.0			3.3	202	9.6	9.1	
8652.0			3.3	204	10.5	9.2	
8654.0	7.0	45	3.3	204	10.7	9.2	1
8656.0	7.6	47	3.4	202	10.0	9.1	3
8658.0	3.0	46	3.4	204	9.9	9.1	3
8660.0	17.2	32	3.2	207	11.3	9.8	1
8662.0	8.3	13	3.0	208	12.7	10.6	3
8664.0	9.3	18	3.2	206	12.9	10.1	3
8666.0			3.4	207	12.8	9.4	
8668.0	9.4	34	3.1	206	13.2	9.9	1
8670.0	12.9	20	3.1	206	13.8	10.4	1

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8672.0	12.8	326	3.2	205	12.6	9.8	1
8674.0	5.4	77	3.4	202	10.7	9.2	4
8676.0	4.8	96	3.5	201	10.2	9.2	2
8678.0	4.0	73	3.3	202	10.0	9.2	4
8680.0	3.0	69	3.4	204	10.0	9.2	4
8682.0	8.7	292	3.4	206	9.8	9.2	4
8684.0	3.4	282	3.4	206	9.7	9.2	4
8686.0	2.8	220	3.4	206	10.4	9.1	4
8688.0	6.3	260	3.5	205	11.0	9.1	4
8690.0	4.3	221	3.5	201	10.9	9.1	2
8692.0	2.9	156	3.4	199	10.1	9.0	2
8694.0	8.3	180	3.4	200	9.5	9.0	4
8696.0	2.1	21	3.3	200	9.4	9.0	4
8698.0	4.6	35	3.2	203	9.5	9.0	4
8700.0	1.2	180	3.3	208	9.5	9.0	4
8702.0			3.3	209	9.9	9.1	
8704.0	3.6	228	3.2	207	10.6	9.2	4
8706.0	8.4	75	3.2	205	10.3	9.2	1
8708.0	1.7	242	3.3	203	9.9	9.1	3
8710.0	6.1	170	3.3	203	9.6	9.2	1
8712.0	6.2	179	3.3	207	9.4	9.2	3
8714.0	4.8	313	3.2	208	9.3	9.1	1
8716.0	3.0	194	3.2	207	9.2	9.1	3
8718.0	6.0	195	3.2	210	9.0	9.0	3
8720.0	10.6	193	3.2	211	8.9	9.0	1
8722.0	15.4	177	3.2	210	8.9	8.9	3
8724.0	13.8	193	3.3	210	8.9	8.9	1
8726.0	0.4	352	3.3	210	8.9	8.9	1
8728.0	2.1	289	3.3	210	8.9	8.9	3
8730.0	1.5	243	3.3	209	8.9	8.9	1
8732.0	7.9	102	3.3	211	8.9	8.9	1
8734.0	1.4	339	3.2	212	8.9	8.9	3
8736.0	1.4	68	3.1	212	8.9	8.9	1
8738.0	4.5	253	3.1	213	8.9	8.9	1
8740.0	11.7	207	3.1	213	8.9	8.9	1
8742.0	10.4	286	3.2	213	8.9	8.8	1
8744.0	1.0	11	3.2	214	8.9	8.8	3
8746.0			3.2	211	8.9	8.8	
8748.0	4.5	237	3.2	211	8.9	8.8	4
8750.0	2.5	220	3.2	213	8.9	8.8	4
8752.0	5.9	42	3.2	211	8.9	8.9	4
8754.0	4.2	78	3.1	209	9.1	9.1	4
8756.0	5.0	131	3.1	208	9.2	9.5	4
8758.0	4.8	19	3.2	207	9.2	9.4	4
8760.0	3.3	24	3.2	207	9.2	9.3	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8762.0	4.7	139	3.1	207	9.5	9.9	2
8764.0	3.7	237	3.1	209	10.2	11.6	4
8766.0	10.2	298	3.1	212	10.1	11.5	2
8768.0	1.9	338	3.2	213	9.4	10.0	2
8770.0	3.4	255	3.1	214	9.5	11.1	4
8772.0	2.6	161	3.2	214	9.5	11.5	2
8774.0	4.0	107	3.2	213	9.4	10.4	2
8776.0	6.5	10	3.3	213	9.3	9.9	2
8778.0	3.1	253	3.3	211	9.3	10.2	4
8780.0	3.2	287	3.2	210	9.3	10.2	4
8782.0	4.0	219	3.2	209	9.2	9.5	2
8784.0	2.5	27	3.3	209	9.1	9.1	4
8786.0	2.8	30	3.3	209	9.0	9.0	4
8788.0	3.0	35	3.3	209	9.1	8.9	4
8790.0	2.9	8	3.2	210	9.2	9.0	4
8792.0	4.6	328	3.1	210	9.2	9.0	4
8794.0	6.4	333	3.2	209	9.3	9.1	3
8796.0			3.3	209	9.2	9.1	
8798.0	4.6	14	3.3	209	9.1	9.0	3
8800.0	4.3	22	3.3	209	11.0	9.2	3
8802.0	5.3	358	3.2	209	13.8	9.7	1
8804.0	6.0	28	3.1	208	14.4	9.8	1
8806.0	5.4	14	3.1	208	12.5	9.4	4
8808.0	2.5	222	3.2	210	10.0	9.1	2
8810.0	5.3	52	3.2	210	9.3	9.0	2
8812.0	3.3	72	3.3	209	9.2	9.0	4
8814.0	2.8	38	3.3	207	9.2	9.0	2
8816.0	10.7	181	3.2	206	9.1	9.0	2
8818.0			3.2	209	9.1	9.0	
8820.0	5.3	233	3.2	208	9.4	9.1	4
8822.0	4.8	221	3.2	205	9.5	9.3	4
8824.0	5.2	350	3.3	205	9.3	9.4	4
8826.0	3.7	325	3.2	208	9.4	9.6	4
8828.0	2.6	353	3.1	211	9.4	9.8	4
8830.0	3.5	340	3.2	212	9.3	9.5	4
8832.0	6.0	327	3.2	210	9.2	9.2	2
8834.0	6.9	2	3.2	209	9.0	9.1	4
8836.0	7.0	1	3.1	213	9.0	9.1	4
8838.0	18.3	3	3.1	215	9.0	9.0	4
8840.0	12.1	7	3.2	214	8.9	8.9	4
8842.0	9.4	11	3.2	214	8.9	8.9	4
8844.0	9.1	2	3.3	214	8.9	8.8	4
8846.0	5.4	1	3.3	214	8.9	8.8	4
8848.0	4.8	22	3.3	214	8.9	8.8	4
8850.0	5.3	63	3.3	214	8.9	8.8	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8852.0	5.3	59	3.3	214	8.9	8.8	4
8854.0	1.9	225	3.2	214	9.0	8.9	4
8856.0	2.7	360	3.2	216	9.1	9.0	4
8858.0	6.0	358	3.3	215	9.2	9.1	4
8860.0	1.3	303	3.3	216	9.2	9.1	4
8862.0	4.5	355	3.3	215	9.1	9.1	4
8864.0	6.2	13	3.3	213	9.0	9.1	4
8866.0	3.2	6	3.3	214	9.0	9.1	4
8868.0	4.1	340	3.3	214	9.1	9.6	4
8870.0	1.6	92	3.2	214	9.3	9.6	4
8872.0	5.8	268	3.2	214	9.3	9.3	4
8874.0	2.0	328	3.2	213	9.3	9.0	4
8876.0	3.6	4	3.2	213	9.2	9.0	4
8878.0	8.1	20	3.3	212	9.0	8.9	4
8880.0	3.4	46	3.3	209	9.0	8.9	4
8882.0	1.0	355	3.3	209	9.0	9.0	4
8884.0	0.5	130	3.3	210	9.1	9.0	4
8886.0	2.2	360	3.2	208	9.1	9.0	4
8888.0	1.3	8	3.3	207	9.1	9.2	4
8890.0	4.7	301	3.3	211	9.2	9.2	4
8892.0	2.9	337	3.2	210	9.2	9.1	4
8894.0	2.7	24	3.2	208	9.2	9.2	4
8896.0	3.7	6	3.2	211	9.1	9.1	4
8898.0	4.2	332	3.2	214	8.9	8.9	4
8900.0	4.7	327	3.2	214	9.0	9.4	4
8902.0	10.2	324	3.2	213	9.1	9.6	2
8904.0	7.8	35	3.2	214	9.1	9.3	4
8906.0	7.5	30	3.2	216	9.0	9.0	4
8908.0	6.4	28	3.2	216	8.9	8.8	4
8910.0	1.6	56	3.2	214	8.9	8.9	4
8912.0	2.0	62	3.2	216	8.9	8.9	4
8914.0	4.0	136	3.2	215	9.0	8.9	2
8916.0	6.6	40	3.2	215	9.1	9.0	4
8918.0	3.7	13	3.2	217	9.0	9.0	4
8920.0	1.6	246	3.2	216	9.3	9.1	4
8922.0			3.3	217	9.6	9.1	
8924.0	5.3	47	3.3	217	9.3	9.1	4
8926.0	2.1	253	3.3	217	9.0	9.1	4
8928.0	1.2	246	3.3	217	9.0	9.1	4
8930.0	6.9	37	3.3	214	9.0	9.1	4
8932.0	7.1	23	3.3	212	9.1	9.3	4
8934.0	3.6	32	3.3	213	9.1	9.4	4
8936.0	4.3	14	3.4	214	9.1	9.7	4
8938.0	1.5	31	3.4	216	9.5	11.3	4
8940.0	3.4	224	3.4	215	9.4	11.7	2

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8942.0	17.9	4	3.4	212	9.1	10.2	2
8944.0	9.6	16	3.4	213	9.0	9.2	4
8946.0	4.8	17	3.4	214	9.0	9.0	4
8948.0	4.5	15	3.4	214	8.9	8.9	4
8950.0	8.9	26	3.3	215	8.9	8.8	4
8952.0	8.6	20	3.4	214	9.0	8.9	4
8954.0	9.5	286	3.3	212	9.1	9.0	2
8956.0	2.0	132	3.3	211	8.9	8.9	4
8958.0	6.5	3	3.4	208	8.9	8.8	4
8960.0	10.1	1	3.5	208	8.9	8.9	4
8962.0	9.9	360	3.4	211	8.9	8.9	4
8964.0	8.6	272	3.3	212	8.9	8.8	2
8966.0	9.6	346	3.3	210	8.9	8.8	4
8968.0	9.6	338	3.3	209	9.0	8.9	4
8970.0	6.7	38	3.3	212	9.0	9.0	4
8972.0	7.7	54	3.3	214	9.0	9.0	4
8974.0	4.4	75	3.3	214	9.0	9.1	4
8976.0	3.7	77	3.2	214	9.1	9.4	4
8978.0			3.3	215	9.2	9.7	
8980.0			3.3	215	9.1	9.3	
8982.0	4.5	36	3.3	214	8.9	9.0	4
8984.0	2.9	133	3.4	212	9.0	9.1	4
8986.0	6.1	186	3.4	211	9.1	9.2	4
8988.0	6.4	186	3.4	212	9.1	9.2	4
8990.0	8.1	72	3.4	215	9.0	9.1	4
8992.0	1.8	328	3.3	218	9.3	10.0	4
8994.0	1.2	262	3.3	218	9.8	12.1	4
8996.0	3.7	68	3.4	216	9.9	13.2	4
8998.0	6.6	347	3.4	214	9.7	12.8	4
9000.0	7.7	60	3.3	211	10.3	11.9	4
9002.0	8.3	64	3.3	211	10.4	11.0	4
9004.0	5.9	40	3.3	213	9.6	10.1	4
9006.0	7.4	28	3.3	212	9.3	9.5	2
9008.0	4.7	11	3.4	212	9.3	9.9	4
9010.0	1.9	354	3.3	213	9.4	11.5	4
9012.0	7.5	327	3.4	212	9.3	12.0	2
9014.0	3.5	37	3.6	213	9.2	10.4	2
9016.0	3.8	74	3.6	213	9.1	9.2	4
9018.0	1.4	62	3.6	212	9.0	9.0	4
9020.0	3.6	55	3.5	211	8.9	9.0	4
9022.0	6.5	36	3.5	212	8.9	9.0	4
9024.0	6.5	38	3.6	213	8.9	8.9	4
9026.0	6.0	39	3.6	215	8.9	8.9	4
9028.0	4.7	31	3.5	216	9.0	8.9	4
9030.0	5.3	13	3.6	214	8.9	8.8	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
9032.0	3.8	8	3.6	216	8.9	8.8	4
9034.0	8.1	340	3.6	219	8.9	8.8	4
9036.0	8.6	319	3.5	218	8.9	8.8	4
9038.0	4.3	322	3.5	216	8.9	8.9	4
9040.0	1.9	68	3.5	213	9.0	9.1	4
9042.0	1.9	141	3.5	215	9.1	9.7	4
9044.0	3.0	53	3.5	215	9.3	10.3	4
9046.0	7.0	65	3.5	215	9.5	10.7	3
9048.0	9.4	82	3.5	216	9.5	11.0	1
9050.0	11.3	45	3.4	216	9.4	10.9	1
9052.0			3.4	216	9.6	11.4	
9054.0			3.5	216	9.5	11.3	
9056.0			3.5	218	9.3	10.1	
9058.0	13.4	49	3.6	217	9.1	9.2	3
9060.0	17.0	75	3.5	215	9.0	9.0	3
9062.0	12.2	65	3.5	215	8.9	8.9	3
9064.0	10.7	63	3.6	216	8.8	8.8	3
9066.0			3.8	216	8.8	8.8	
9068.0			3.8	217	8.8	8.8	
9070.0	2.2	229	3.6	215	8.8	8.7	3
9072.0	3.5	217	3.6	213	8.7	8.7	3
9074.0			3.6	214	8.8	8.7	
9076.0	1.5	105	3.6	215	8.8	8.7	1
9078.0	9.1	277	3.5	216	8.8	8.7	3
9080.0	8.7	259	3.4	216	8.8	8.7	1
9082.0	2.3	356	3.4	216	8.8	8.7	1
9084.0	1.1	36	3.5	218	8.9	9.0	3
9086.0	6.2	96	3.5	218	9.0	9.3	2
9088.0			3.5	218	9.0	9.3	
9090.0			3.4	219	9.0	9.2	
9092.0	3.2	110	3.4	220	9.0	9.0	4
9094.0	3.4	34	3.4	221	8.9	8.9	4
9096.0	1.2	61	3.4	221	9.0	8.8	2
9098.0	3.6	240	3.5	222	8.9	8.8	2
9100.0	4.2	75	3.5	221	8.8	8.8	2
9102.0	7.7	19	3.5	220	8.9	8.8	4
9104.0	4.9	16	3.5	220	9.0	9.0	4
9106.0	4.2	24	3.6	219	9.3	9.1	3
9108.0			3.6	221	10.5	9.4	
9110.0			3.4	221	12.5	10.0	
9112.0			3.5	222	12.3	9.8	
9114.0			3.6	223	10.3	9.2	
9116.0			3.6	223	9.3	9.1	
9118.0			3.6	222	9.1	9.1	
9120.0	0.7	142	3.6	220	8.9	9.0	3

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
9122.0	7.9	258	3.5	219	9.1	9.3	3
9124.0	7.5	259	3.7	219	9.7	10.8	3
9126.0			4.0	220	9.6	11.0	
9128.0	7.2	242	3.7	219	9.0	9.4	2
9130.0	7.3	198	3.6	218	8.9	9.0	2
9132.0	4.3	64	3.7	220	8.9	8.8	4
9134.0	4.7	51	3.7	219	8.8	8.8	4
9136.0	4.1	349	3.7	214	8.8	8.8	2
9138.0	2.0	313	3.6	213	9.5	8.9	4
9140.0	0.8	94	3.7	215	12.0	9.6	4
9142.0	3.4	31	3.6	215	12.3	9.5	2
9144.0	6.1	360	3.6	215	10.6	9.1	2
9146.0	15.5	43	3.8	215	10.0	9.1	1
9148.0	10.6	307	3.6	216	12.5	9.8	1
9150.0			3.6	216	13.8	10.3	
9152.0			3.6	215	10.9	9.6	
9154.0	0.9	355	3.6	215	9.3	9.0	3
9156.0	6.0	309	3.7	216	9.5	9.0	1
9158.0	6.8	312	3.6	215	9.6	8.9	1
9160.0			3.7	214	9.2	8.9	
9162.0	8.3	12	3.8	214	8.9	8.8	1
9164.0	5.2	345	3.7	216	8.9	8.8	1
9166.0	3.9	342	3.6	218	8.9	8.8	4
9168.0	2.8	351	3.6	217	8.9	8.8	4
9170.0	5.6	12	3.8	217	8.9	8.9	4
9172.0	6.4	6	3.8	217	8.9	8.9	4
9174.0	9.9	30	3.7	216	8.8	8.9	4
9176.0	8.7	29	3.7	218	8.8	8.9	4
9178.0	7.0	58	3.8	220	8.8	9.0	4
9180.0	1.7	318	3.9	220	9.0	9.7	4
9182.0	4.1	265	3.8	219	9.1	10.2	4
9184.0	2.0	237	3.8	219	9.1	9.7	4
9186.0	7.9	92	3.8	220	9.2	10.0	1
9188.0	6.0	53	3.7	222	9.2	10.6	1
9190.0	2.3	124	3.8	222	9.2	10.5	1
9192.0	6.4	72	3.9	220	9.2	10.6	1
9194.0			3.6	221	9.1	9.9	
9196.0	8.9	215	3.7	222	9.0	9.2	1
9198.0	6.5	79	3.7	221	8.9	9.0	1
9200.0	7.6	360	3.7	221	8.8	8.8	3
9202.0	9.0	88	3.8	222	8.8	8.8	3
9204.0	9.5	75	3.7	222	8.8	8.8	3
9206.0	4.0	56	3.8	220	9.0	8.9	4
9208.0	2.5	22	3.9	220	9.0	8.9	4
9210.0	6.2	48	3.9	222	8.9	8.8	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
9212.0	7.6	37	3.8	222	9.4	8.9	4
9214.0	12.3	14	3.7	220	9.5	8.9	1
9216.0	8.3	39	3.7	218	10.2	9.6	3
9218.0	2.1	354	3.8	220	11.5	10.1	3
9220.0	3.4	56	3.9	221	11.0	9.8	1
9222.0	5.9	63	3.8	221	10.4	10.0	1
9224.0			3.6	223	10.0	9.8	
9226.0			3.6	224	9.3	9.3	
9228.0	6.0	75	3.7	223	9.1	9.0	1
9230.0	7.7	6	3.7	220	9.0	8.9	1
9232.0	4.8	6	3.8	219	10.5	9.2	3
9234.0	8.5	57	3.8	222	11.6	9.3	1
9236.0			3.8	224	10.4	9.0	
9238.0			3.8	223	9.3	8.9	
9240.0	11.9	348	3.8	223	8.9	8.8	3
9242.0	8.9	19	3.8	222	8.8	8.8	3
9244.0	9.3	35	3.8	224	8.8	8.8	4
9246.0	9.1	34	3.8	223	8.8	8.8	4
9248.0	5.4	312	3.8	215	8.9	8.8	4
9250.0	6.4	32	3.8	217	9.0	8.9	4
9252.0			3.8	218	8.9	8.8	
9254.0	3.4	104	3.8	217	8.8	8.8	2
9256.0	4.4	318	3.8	217	8.9	8.9	4
9258.0	5.3	329	3.8	218	9.0	9.0	4
9260.0	3.8	36	3.7	221	9.1	9.2	2
9262.0	8.2	15	3.7	223	9.5	11.0	4
9264.0	6.0	346	3.7	223	9.5	11.5	2
9266.0	5.1	306	3.7	221	9.0	10.5	4
9268.0	7.0	347	3.8	219	9.0	9.9	2
9270.0	8.0	5	3.9	220	8.9	9.1	2
9272.0	14.0	7	4.0	218	8.8	8.7	4
9274.0			3.9	217	8.7	8.6	
9276.0	9.9	354	3.9	219	8.7	8.5	2
9278.0	11.1	356	3.9	222	8.6	8.5	4
9280.0	4.8	324	3.9	222	8.6	8.4	4
9282.0	4.0	307	3.8	220	8.5	8.3	2
9284.0	4.3	115	3.9	218	8.6	8.3	4
9286.0	9.7	18	4.0	217	8.7	8.3	4
9288.0	14.7	14	4.0	217	8.9	8.3	4
9290.0	13.3	34	3.9	217	9.0	8.3	2
9292.0			3.8	218	8.8	8.3	
9294.0	8.7	348	3.9	219	8.8	8.4	4
9296.0	7.5	341	3.9	219	8.8	8.4	4
9298.0	21.7	154	3.9	218	8.8	8.4	3
9300.0	4.9	38	3.9	217	8.9	8.5	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
9302.0	4.9	33	3.8	218	9.9	8.7	4
9304.0	14.2	338	3.7	219	11.2	8.9	1
9306.0	9.0	87	3.8	218	11.1	8.9	4
9308.0	7.5	99	3.9	217	10.5	8.8	4
9310.0	6.3	69	3.9	216	11.1	8.7	4
9312.0	6.9	57	3.9	218	11.7	8.9	4
9314.0	8.5	318	3.8	220	11.9	9.3	3
9316.0	7.0	56	3.7	222	12.2	9.7	2
9318.0	13.4	42	3.8	221	13.4	10.6	2
9320.0	4.3	191	3.7	219	14.0	11.4	2
9322.0	1.7	353	3.8	219	12.8	10.7	2
9324.0	7.7	302	4.0	218	11.5	9.4	1
9326.0	8.8	301	3.9	218	11.7	9.1	1
9328.0			3.5	221	11.8	9.3	
9330.0	7.8	286	3.7	220	11.4	9.6	1
9332.0	11.9	269	4.0	217	12.4	9.9	1
9334.0	12.4	265	4.0	215	13.3	10.9	1
9336.0	2.8	241	4.0	217	12.9	10.4	1
9338.0	4.9	306	4.2	220	11.1	9.1	3
9340.0	3.4	2	4.3	219	9.2	8.7	1
9342.0	2.6	338	4.2	218	9.8	8.8	1
9344.0	4.8	55	4.0	216	11.8	10.5	2
9346.0			4.0	216	13.6	12.7	
9348.0			4.0	220	12.4	11.3	
9350.0	3.2	291	4.1	222	9.9	9.0	2
9352.0	6.4	183	4.0	224	9.5	8.8	4
9354.0	4.4	103	4.0	223	9.5	8.8	2
9356.0	4.7	326	3.9	220	9.1	8.8	4
9358.0	2.9	324	3.8	219	9.8	8.8	4
9360.0	1.3	278	3.7	220	11.6	9.1	4
9362.0	3.6	120	3.6	221	13.3	9.6	4
9364.0	7.2	74	3.9	223	14.6	11.1	1
9366.0			3.9	223	16.0	12.4	
9368.0	12.7	58	3.9	222	14.3	10.9	3
9370.0	13.6	61	3.9	223	11.5	10.0	3
9372.0	11.8	82	3.8	224	12.5	11.6	1
9374.0			3.7	225	13.1	12.0	
9376.0			3.7	224	11.3	10.2	
9378.0	13.4	93	3.8	222	10.0	9.0	1
9380.0			3.8	221	10.8	9.2	
9382.0	9.6	58	4.0	221	10.4	9.2	1
9384.0	4.0	260	4.1	222	9.1	8.8	2
9386.0	3.3	354	4.1	222	8.9	8.8	4
9388.0	1.3	28	4.1	220	10.0	8.9	4
9390.0	2.3	43	4.1	220	10.6	8.9	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
9392.0	3.2	317	4.0	220	10.0	8.8	4
9394.0	9.5	297	3.9	219	10.6	9.0	4
9396.0	8.1	7	3.9	219	11.4	9.0	2
9398.0	1.4	51	3.8	220	11.5	9.0	4
9400.0	1.6	100	3.9	220	10.7	9.0	4
9402.0	6.8	357	3.9	220	9.4	8.9	4
9404.0	9.6	360	3.9	221	9.1	8.8	4
9406.0	2.8	355	3.9	224	8.9	8.7	2
9408.0	3.7	59	4.0	229	8.7	8.6	2
9410.0	11.1	355	4.0	227	8.7	8.6	2
9412.0	3.8	3	3.9	225	8.7	8.6	4
9414.0	2.0	16	3.9	225	8.9	8.8	4
9416.0	2.7	232	4.0	226	8.9	9.0	4
9418.0	2.6	261	3.9	225	8.9	9.0	4
9420.0	0.9	102	3.9	225	8.8	8.9	4
9422.0	1.6	89	3.9	224	8.7	8.9	4
9424.0	3.1	214	3.9	222	8.7	8.8	4
9426.0			3.8	223	8.8	9.2	
9428.0	6.0	218	3.8	225	8.9	9.7	2
9430.0	6.9	203	3.7	225	8.7	10.2	2
9432.0	1.9	303	3.7	225	8.8	10.7	4
9434.0	3.3	20	4.2	225	9.1	10.9	4
9436.0	4.1	32	4.3	224	9.5	12.2	4
9438.0	1.6	218	3.9	223	10.4	14.3	4
9440.0	2.8	282	3.9	223	12.3	16.3	2
9442.0	4.5	228	3.9	223	11.8	14.1	4
9444.0	4.0	44	3.9	224	9.7	11.2	3
9446.0	6.8	339	3.9	224	11.0	13.6	1
9448.0	6.9	352	3.8	222	11.7	14.8	3
9450.0	6.1	324	3.7	221	9.9	12.6	3
9452.0	0.7	198	3.9	223	9.2	11.3	1
9454.0	0.8	186	3.9	224	9.6	11.3	1
9456.0	3.4	56	4.0	225	9.5	11.3	3
9458.0	6.1	101	4.0	224	9.0	11.6	1
9460.0	3.6	35	4.0	224	9.2	13.0	1
9462.0	7.7	114	4.0	224	9.5	13.1	1
9464.0	2.6	75	3.9	223	9.3	12.3	4
9466.0	1.5	192	3.9	223	9.5	12.2	4
9468.0	4.9	346	4.0	223	9.5	11.2	4
9470.0	1.8	14	4.0	222	8.9	9.8	4
9472.0	2.9	3	3.9	223	9.5	11.3	4
9474.0			3.9	223	10.8	13.8	
9476.0	11.3	191	3.9	222	10.6	13.1	2
9478.0	8.8	231	3.8	222	9.6	11.9	2
9480.0	3.4	199	3.9	222	9.3	12.8	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
9482.0	1.4	114	3.9	222	9.1	12.4	4
9484.0	6.0	347	3.9	222	9.0	10.8	4
9486.0	7.2	16	3.8	222	9.0	10.1	4
9488.0	7.8	17	4.0	225	9.7	10.2	4
9490.0	3.4	341	3.9	226	9.8	10.0	4
9492.0	3.9	265	3.9	224	8.9	9.0	4
9494.0	4.9	332	4.0	225	8.6	8.7	4
9496.0	4.4	335	4.1	225	8.6	8.7	4
9498.0	2.9	355	4.2	224	8.6	8.5	4
9500.0	10.4	251	4.1	223	8.5	8.4	4
9502.0	9.1	309	4.0	222	8.4	8.4	2
9504.0	9.4	340	4.0	222	8.4	8.4	4
9506.0	8.0	34	3.9	222	8.4	8.4	2
9508.0	7.9	37	3.9	222	8.4	8.3	2
9510.0	4.4	234	3.9	222	8.4	8.3	4
9512.0	15.7	76	3.8	221	8.4	8.3	1
9514.0	15.7	301	3.8	220	8.4	8.3	2
9516.0	7.7	295	3.7	219	8.3	8.3	4
9518.0	6.5	292	3.7	218	8.3	8.3	4
9520.0	3.9	287	3.8	217	8.3	8.3	4
9522.0	3.1	314	3.8	217	8.4	8.3	4
9524.0	6.9	21	3.8	217	8.4	8.3	4
9526.0	6.5	19	3.8	216	8.4	8.3	4
9528.0	6.0	21	3.8	214	8.4	8.3	4
9530.0	4.1	62	3.8	214	8.4	8.4	4
9532.0			3.8	215	8.6	8.5	
9534.0	8.1	103	3.8	216	9.1	8.7	2
9536.0	14.3	60	3.7	215	9.3	8.8	2
9538.0			3.7	215	9.1	8.7	
9540.0	10.2	324	3.8	215	8.8	8.5	2
9542.0	11.0	327	3.8	214	8.7	8.4	2
9544.0	9.9	341	3.8	216	8.8	8.5	2
9546.0	10.2	357	3.6	218	9.4	8.8	2
9548.0	15.1	44	3.7	219	10.5	9.0	2
9550.0	7.4	281	3.9	218	10.0	8.9	2
9552.0	8.0	323	3.8	219	9.1	8.8	4
9554.0	5.3	258	3.8	220	9.2	8.9	4
9556.0	6.6	243	3.8	221	9.4	9.0	2
9558.0	2.7	5	3.8	221	9.3	9.0	4
9560.0	6.4	344	3.8	221	9.0	8.9	4
9562.0	5.9	2	3.8	221	9.3	9.0	4
9564.0	2.5	345	3.8	221	9.7	9.1	4
9566.0	7.7	37	3.7	220	10.3	9.2	2
9568.0	12.6	171	3.8	219	10.7	9.2	2
9570.0	2.2	107	3.7	219	11.1	9.6	2

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
9572.0	3.3	229	3.7	217	11.1	9.9	4
9574.0	3.9	173	3.8	217	9.9	9.5	4
9576.0	3.0	348	3.9	219	9.5	9.3	4
9578.0	7.1	343	3.8	219	9.7	9.2	2
9580.0	6.2	347	3.6	216	10.1	9.2	2
9582.0	1.7	347	3.8	218	10.1	9.3	4
9584.0	3.8	345	3.8	217	9.7	9.3	3
9586.0	5.7	301	3.8	213	9.4	9.2	1
9588.0	14.5	72	3.9	213	9.5	9.2	3
9590.0	0.0	0	3.9	215	9.6	9.3	1
9592.0	9.1	279	4.0	218	9.6	9.3	1
9594.0	2.6	303	3.9	216	9.7	9.3	1
9596.0	3.7	345	3.7	215	9.7	9.3	1
9598.0			3.7	216	9.6	9.3	
9600.0			3.7	215	9.6	9.3	
9602.0	17.3	265	3.6	214	9.5	9.3	1
9604.0	14.4	301	3.6	214	9.8	9.3	2
9606.0	12.2	306	3.6	213	9.7	9.3	4
9608.0	12.3	332	3.6	215	10.0	9.8	4
9610.0	11.9	332	3.7	215	10.5	10.0	4
9612.0	12.6	314	3.7	212	10.5	9.4	4
9614.0	8.6	329	3.7	212	10.7	9.3	4
9616.0	14.8	323	3.7	214	10.1	9.3	4
9618.0	8.3	326	3.8	214	9.3	9.0	4
9620.0	2.1	307	3.8	212	9.6	9.2	2
9622.0	2.5	225	3.8	212	10.2	9.4	4
9624.0	6.9	337	3.8	211	10.1	9.4	4
9626.0	7.1	329	3.7	210	9.8	9.4	4
9628.0	6.9	318	3.6	211	9.6	9.3	2
9630.0	7.1	308	3.7	211	9.5	9.3	2
9632.0	6.3	311	3.7	211	9.5	9.2	1
9634.0	4.1	339	3.7	211	9.3	9.2	3
9636.0	3.7	339	3.8	213	9.3	9.1	3
9638.0	9.7	63	3.7	215	9.4	9.2	1
9640.0			3.6	215	9.6	9.5	
9642.0			3.7	213	10.4	10.2	
9644.0			3.7	213	11.2	11.2	
9646.0			3.7	215	11.1	11.7	
9648.0			3.7	215	10.2	10.5	
9650.0	5.6	32	3.6	213	9.3	9.3	3
9652.0	3.7	66	3.7	212	9.1	9.2	3
9654.0	4.7	70	3.6	212	9.1	9.2	3
9656.0			3.7	215	9.2	9.7	
9658.0	5.9	85	3.7	218	9.8	10.6	1
9660.0	4.2	39	3.7	217	9.7	10.1	3

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
9662.0	5.0	39	3.7	218	9.2	9.2	3
9664.0	5.0	43	3.8	219	9.2	9.2	3
9666.0			3.8	219	9.2	9.3	
9668.0	4.3	320	3.8	219	9.3	9.5	1
9670.0			3.7	217	9.4	9.6	
9672.0			3.7	215	9.5	9.6	
9674.0			3.8	214	9.5	9.6	
9676.0	32.7	12	3.7	212	9.4	9.7	1
9678.0	33.2	344	3.8	211	9.4	9.7	3
9680.0	16.6	359	3.7	211	9.4	9.6	3
9682.0	33.6	359	3.7	212	9.4	9.6	3
9684.0	32.3	360	3.6	215	9.4	9.5	3
9686.0	9.8	6	3.6	215	9.3	9.4	1
9688.0			3.7	215	9.2	9.4	
9690.0	29.4	6	3.7	216	9.1	9.3	1
9692.0	22.3	6	3.8	217	9.1	9.3	1
9694.0	15.9	356	3.7	217	9.0	9.2	3
9696.0	3.0	217	3.7	216	9.0	9.3	4
9698.0	2.2	264	3.7	216	9.5	10.1	4
9700.0	1.8	3	3.6	215	9.5	10.5	2
9702.0	5.6	7	3.6	213	9.0	9.6	4
9704.0			3.6	215	8.9	9.2	
9706.0	1.4	117	3.7	218	9.0	9.3	4
9708.0	1.2	222	3.7	218	9.0	9.4	4
9710.0	1.9	146	3.6	216	9.1	9.9	4
9712.0	6.7	156	3.7	215	9.0	10.0	2
9714.0	10.4	10	3.6	217	8.9	9.5	2
9716.0	7.6	355	3.7	216	9.1	9.9	1
9718.0	5.4	291	3.8	217	9.2	10.0	3
9720.0	1.5	194	3.7	217	9.1	9.4	1
9722.0	14.1	89	3.7	217	9.0	9.2	3
9724.0	13.9	84	3.7	217	9.0	9.2	3
9726.0			3.7	215	9.2	9.4	
9728.0	9.6	31	3.7	215	9.2	9.6	1
9730.0	7.4	314	3.7	216	9.2	9.7	1
9732.0	4.2	316	3.7	216	9.2	9.6	3
9734.0	4.1	308	3.6	215	9.1	9.4	3
9736.0	8.0	19	3.6	214	9.2	9.4	2
9738.0	8.2	350	3.7	213	9.1	9.4	2
9740.0	4.5	336	3.7	213	9.1	9.4	4
9742.0	1.9	306	3.6	213	9.5	10.2	2
9744.0	7.0	333	3.6	214	9.8	10.6	4
9746.0	4.9	263	3.6	216	9.3	9.9	4
9748.0	3.6	204	3.7	215	9.0	9.7	4
9750.0	3.9	61	3.7	214	9.0	9.4	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
9752.0	4.6	117	3.8	215	8.9	8.9	4
9754.0	6.7	135	3.8	215	8.9	9.1	4
9756.0	3.0	100	3.7	213	9.1	10.3	2
9758.0	1.4	109	3.7	214	9.1	11.7	2
9760.0	3.5	62	3.8	216	9.0	11.6	4
9762.0	2.8	29	3.8	216	9.0	10.3	4
9764.0	4.4	23	3.8	214	8.9	9.7	4
9766.0	10.0	23	3.7	214	9.0	9.9	4
9768.0	16.7	299	3.6	215	9.0	10.2	3
9770.0	16.6	296	3.7	214	9.0	10.6	3
9772.0	4.8	349	3.6	213	9.1	10.6	4
9774.0	4.5	353	3.7	213	9.1	10.6	4
9776.0	6.0	65	3.7	213	9.1	10.2	4
9778.0	6.2	60	3.7	212	9.0	9.6	4
9780.0	2.5	84	3.7	212	9.0	9.5	4
9782.0	1.9	190	3.6	211	9.1	9.7	4
9784.0	0.7	347	3.7	211	9.2	10.7	4
9786.0	3.4	236	3.7	211	9.2	11.1	4
9788.0	2.6	190	3.7	210	9.0	9.9	4
9790.0	2.4	150	3.8	210	8.9	9.4	4
9792.0	10.8	360	3.8	214	9.3	10.9	4
9794.0	22.6	321	3.7	215	9.8	12.2	3
9796.0	4.7	103	3.7	213	9.5	11.2	4
9798.0	6.8	74	3.8	212	8.8	10.4	4
9800.0	6.1	319	3.7	211	8.7	10.2	4
9802.0	7.1	293	3.7	213	8.9	9.8	4
9804.0	4.2	30	3.7	212	9.1	10.6	2
9806.0	1.5	248	3.7	211	9.1	10.6	4
9808.0	4.3	113	3.6	214	9.0	10.1	4
9810.0	3.5	52	3.5	213	9.0	9.8	4
9812.0	10.6	15	3.8	211	9.4	9.7	2
9814.0	7.9	34	3.9	209	9.4	9.8	4
9816.0	2.9	349	3.9	210	9.0	9.3	4
9818.0	3.0	353	3.9	211	8.9	9.1	4
9820.0	2.9	339	3.7	211	8.9	9.1	4
9822.0	2.8	346	3.7	211	8.9	9.1	4
9824.0	11.4	1	3.7	210	8.9	9.1	4
9826.0	11.2	351	3.8	211	8.9	9.1	2
9828.0			3.8	214	8.9	9.1	
9830.0	6.6	350	3.8	214	9.0	9.1	2
9832.0			3.8	213	9.1	9.4	
9834.0	5.6	68	3.8	213	9.1	9.6	2
9836.0	6.9	308	3.7	212	9.0	9.3	2
9838.0	1.5	341	3.8	212	8.9	9.0	4
9840.0	2.1	52	3.7	210	8.7	8.9	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
9842.0	5.5	342	3.7	207	8.5	8.9	4
9844.0	5.4	349	3.6	207	8.5	8.9	4
9846.0			3.6	209	8.6	9.3	
9848.0	6.2	167	3.7	212	9.2	10.9	2
9850.0	2.4	17	3.7	214	9.3	11.2	4
9852.0	1.4	48	3.7	214	8.8	9.6	4
9854.0	2.4	360	3.7	213	8.8	9.1	4
9856.0			3.8	214	8.8	9.2	
9858.0	0.9	55	3.8	212	8.9	9.3	4
9860.0	1.1	74	3.6	212	9.2	9.9	4
9862.0	10.1	343	3.5	216	9.7	11.3	2
9864.0			3.6	215	9.5	11.5	
9866.0			3.7	209	9.2	11.7	
9868.0	11.8	8	3.8	209	9.4	12.4	2
9870.0	3.9	56	3.9	212	9.3	11.7	3
9872.0	2.3	177	3.7	212	9.1	10.3	3
9874.0	1.3	222	3.7	210	9.6	10.9	3
9876.0			3.7	211	10.6	12.0	
9878.0	4.3	121	3.8	210	10.4	11.6	1
9880.0	1.8	175	3.7	209	9.7	11.1	1
9882.0	1.2	66	3.8	209	9.2	10.7	3
9884.0	8.7	152	3.8	209	8.9	10.5	1
9886.0	6.7	194	3.8	209	9.3	11.4	1
9888.0	2.4	197	3.8	210	9.2	10.8	1
9890.0	3.3	184	3.8	211	8.8	9.7	4
9892.0			3.8	211	8.9	9.6	
9894.0			3.8	209	9.1	9.3	
9896.0			3.8	208	9.0	9.2	
9898.0	1.3	152	3.8	209	8.8	9.2	4
9900.0			3.8	209	8.8	9.2	
9902.0	4.1	10	3.8	210	8.9	9.2	4
9904.0	6.9	26	3.8	212	8.9	9.1	2
9906.0	1.9	360	3.8	213	8.9	9.1	4
9908.0	0.7	188	3.8	244	9.5	9.8	4
9910.0			3.8	278	10.3	11.1	
9912.0	9.1	353	3.7	245	9.7	11.3	1
9914.0	5.0	32	3.7	213	8.9	10.2	1
9916.0	9.6	26	3.7	212	8.8	9.2	1
9918.0	6.7	172	3.7	211	8.8	9.2	1
9920.0	2.5	88	3.7	210	9.6	10.1	3
9922.0	3.7	58	3.7	209	11.6	12.5	3
9924.0			3.7	211	11.6	12.5	
9926.0			3.7	213	9.6	10.0	
9928.0	0.7	54	3.7	215	9.1	9.9	3
9930.0	1.7	14	3.7	214	9.3	10.9	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
9932.0	2.9	20	3.7	212	9.2	11.4	4
9934.0			3.7	212	9.2	11.7	
9936.0	3.4	302	3.7	212	9.1	11.8	4
9938.0	4.0	216	3.7	216	9.0	11.0	2
9940.0	5.0	355	3.7	214	9.1	11.2	4
9942.0	5.9	38	3.7	211	9.2	12.2	4
9944.0	4.1	84	3.7	210	9.1	12.3	4
9946.0	2.9	352	3.7	212	9.0	11.1	4
9948.0	0.7	74	3.7	213	8.9	9.2	4
9950.0	12.5	81	3.7	213	8.8	8.9	4
9952.0	3.3	216	3.7	212	8.9	9.0	2
9954.0	3.0	176	3.7	212	9.6	10.3	2
9956.0	3.4	260	3.7	211	9.7	11.2	4
9958.0	4.6	304	3.7	211	9.0	10.5	4
9960.0	4.4	328	3.7	211	9.0	9.6	4
9962.0	6.4	13	3.7	212	8.9	9.3	4
9964.0	6.3	11	3.7	213	9.1	10.7	4
9966.0	6.9	70	3.7	213	9.2	11.3	4
9968.0	3.1	142	3.7	212	8.9	9.9	4
9970.0	2.5	142	3.7	212	8.9	9.9	4
9972.0	3.3	96	3.8	212	9.0	11.6	4
9974.0	4.8	78	3.8	214	9.0	12.2	4
9976.0	3.0	19	3.8	213	9.0	11.4	4
9978.0	9.4	153	3.8	211	8.8	9.7	2
9980.0	2.4	259	3.8	212	8.7	8.5	4
9982.0	1.2	341	3.8	213	8.9	9.0	4
9984.0	3.3	348	3.8	212	8.9	9.1	4
9986.0	6.5	10	3.8	211	8.9	9.1	4
9988.0	2.5	311	3.8	211	9.0	9.6	4
9990.0	1.8	37	3.8	211	9.1	10.1	4
9992.0	6.6	359	3.8	212	9.0	9.4	4
9994.0	10.9	345	3.8	213	8.8	8.8	4
9996.0	4.8	78	3.8	213	8.9	8.9	2
9998.0	7.7	45	3.8	210	8.9	9.1	4
10000.0	6.8	2	3.8	209	9.0	9.0	4
10002.0	8.1	1	3.8	209	8.9	8.9	2
10004.0	3.4	60	3.8	211	9.0	9.6	2
10006.0	9.9	344	3.8	215	9.0	10.1	2
10008.0	6.9	24	3.8	215	9.3	10.2	4
10010.0	10.4	68	3.8	213	10.1	11.4	2
10012.0	6.8	311	3.8	210	9.7	10.8	4
10014.0	1.9	352	3.8	210	9.0	9.2	4
10016.0	4.4	79	3.8	213	8.9	8.9	4
10018.0	3.4	342	3.8	215	8.9	8.9	4
10020.0	2.9	360	3.8	216	8.9	8.9	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
10022.0	8.3	61	3.8	213	8.9	8.9	4
10024.0	7.7	56	3.8	212	8.9	8.9	4
10026.0	2.4	11	3.8	214	8.9	9.0	4
10028.0	3.6	344	3.8	215	9.0	9.0	4
10030.0	2.1	350	3.8	212	9.0	9.1	4
10032.0			3.9	211	8.9	9.0	
10034.0	4.5	9	3.9	213	8.9	8.9	2
10036.0	3.6	140	3.9	215	9.1	9.0	4
10038.0	4.4	190	3.9	216	9.1	8.9	4
10040.0	5.5	315	3.9	214	8.9	8.8	4
10042.0	3.3	335	3.9	213	8.9	8.8	4
10044.0	5.3	231	3.9	214	8.9	8.8	2
10046.0	4.6	204	3.9	213	9.5	9.0	4
10048.0	6.5	338	3.9	215	12.4	9.4	2
10050.0			3.9	216	14.9	10.4	
10052.0			3.9	214	14.2	10.6	
10054.0	3.6	40	3.9	215	12.8	9.9	4
10056.0	4.4	304	3.9	214	11.9	9.4	4
10058.0	14.8	275	3.9	213	12.2	9.2	4
10060.0	11.3	322	3.9	213	11.5	9.2	4
10062.0	12.3	348	3.8	213	11.1	9.3	2
10064.0	7.2	303	3.8	212	11.1	9.3	2
10066.0	7.0	342	3.9	213	10.0	8.9	2
10068.0	11.6	16	3.9	214	9.5	8.8	2
10070.0	8.7	92	4.0	215	9.4	8.9	4
10072.0	8.8	83	4.1	215	9.4	8.9	4
10074.0	2.9	136	4.1	214	9.5	8.9	2
10076.0	2.4	95	3.9	212	10.0	8.8	2
10078.0	8.2	44	3.9	212	10.0	8.8	4
10080.0	6.0	298	3.9	214	9.6	8.9	3
10082.0	6.0	67	3.9	215	9.3	9.0	2
10084.0	5.2	92	3.9	215	9.3	9.0	4
10086.0			3.9	215	9.4	9.1	
10088.0			3.9	214	9.4	9.1	
10090.0	8.7	352	3.9	214	9.4	9.1	1
10092.0	4.6	267	3.9	214	9.4	9.1	1
10094.0	4.0	257	3.9	213	9.5	9.1	1
10096.0			3.9	213	9.5	9.2	
10098.0			3.9	213	9.5	9.2	
10100.0	11.9	43	3.9	215	9.5	9.2	1
10102.0	4.5	16	3.9	215	9.5	9.2	1
10104.0	4.3	286	3.9	213	9.8	9.2	1
10106.0	3.2	306	3.9	215	10.4	9.3	1
10108.0	4.7	340	3.8	219	10.1	9.2	3
10110.0	2.2	39	3.9	216	9.4	9.1	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
10112.0	2.4	141	4.0	214	9.3	9.1	2
10114.0	11.4	358	3.9	218	9.2	9.1	2
10116.0	12.0	9	3.9	219	9.2	9.1	2
10118.0	1.7	334	3.9	216	9.1	9.1	4
10120.0	3.2	31	4.0	214	8.9	9.0	4
10122.0	7.1	94	4.0	213	8.9	9.1	2
10124.0			4.0	213	8.9	9.0	
10126.0	8.9	12	4.0	212	8.9	8.9	4
10128.0	8.3	18	4.0	210	9.0	9.4	4
10130.0	2.8	26	4.0	211	9.6	10.5	3
10132.0	5.4	44	3.8	213	9.5	11.2	1
10134.0	4.2	20	3.8	212	9.0	11.5	1
10136.0	5.9	337	3.9	212	9.4	11.6	1
10138.0	11.7	33	3.9	213	9.6	11.4	1
10140.0	2.5	325	3.9	215	9.3	10.9	3
10142.0	4.8	21	3.9	215	9.4	11.0	1
10144.0	7.0	89	3.9	215	9.8	11.9	1
10146.0	3.0	50	3.9	215	9.4	10.7	3
10148.0	7.3	297	3.9	215	9.1	10.2	1
10150.0	6.6	78	3.9	214	9.3	11.4	2
10152.0	4.3	27	4.1	213	9.4	11.2	4
10154.0	4.8	34	4.1	214	9.3	10.4	4
10156.0	2.1	115	4.0	216	9.1	10.0	4
10158.0	7.6	135	4.1	216	9.1	9.6	4
10160.0	4.0	315	3.9	215	9.0	9.3	2
10162.0	7.8	8	4.0	214	9.2	10.5	4
10164.0	2.6	303	4.1	214	9.7	12.5	4
10166.0	2.7	217	3.9	213	10.1	13.1	4
10168.0	7.7	250	3.9	210	9.5	11.7	4
10170.0	9.3	262	4.0	211	9.0	10.1	4
10172.0			4.0	214	9.0	9.4	
10174.0	2.4	20	4.0	214	9.1	9.4	4
10176.0	3.1	16	4.0	215	9.1	9.5	4
10178.0	2.1	30	3.9	215	9.2	9.8	4
10180.0	4.4	55	3.8	214	9.2	9.8	4
10182.0	4.5	60	3.9	214	9.1	10.5	4
10184.0	2.0	227	4.0	214	9.1	11.2	4
10186.0	0.9	266	4.0	215	9.2	10.4	4
10188.0	3.7	83	3.9	214	9.2	11.3	4
10190.0	2.5	4	3.8	213	9.2	11.8	3
10192.0	6.7	29	3.9	212	9.5	11.2	1
10194.0			3.9	211	9.9	11.7	
10196.0	7.7	133	3.9	213	9.7	12.3	1
10198.0	6.2	79	4.0	213	10.1	13.3	3
10200.0	4.3	109	3.9	214	10.0	12.5	3

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
10202.0	1.3	53	3.9	214	9.3	10.2	1
10204.0	0.6	130	4.0	213	9.2	9.4	1
10206.0	7.5	118	4.0	214	9.2	9.2	1
10208.0	2.4	65	4.0	214	9.1	9.2	1
10210.0			4.0	213	9.1	9.2	
10212.0			4.0	212	9.0	9.2	
10214.0	8.9	350	4.0	209	9.4	9.9	4
10216.0	7.2	358	4.0	210	9.7	10.9	4
10218.0	5.2	17	4.0	213	9.4	10.7	4
10220.0	4.6	14	4.0	212	9.3	11.0	4
10222.0	6.1	46	3.9	211	9.3	11.2	4
10224.0	12.3	83	4.0	209	9.4	12.3	4
10226.0	12.8	83	4.0	208	10.1	14.5	4
10228.0	11.1	63	3.9	209	10.9	14.1	4
10230.0			3.9	211	11.2	13.4	
10232.0	28.8	161	4.0	210	10.2	11.4	3
10234.0	31.0	158	4.0	207	9.1	9.6	3
10236.0	29.3	162	4.0	206	9.0	9.4	1
10238.0			4.0	206	9.0	9.4	
10240.0			4.0	207	9.0	9.5	
10242.0			4.0	207	9.0	9.8	
10244.0	16.5	327	4.1	207	9.0	9.9	3
10246.0	20.4	329	4.1	207	9.0	9.7	3
10248.0			4.1	206	9.0	9.8	
10250.0			4.1	206	9.1	10.2	
10252.0			4.0	207	9.2	10.5	
10254.0			4.0	209	9.3	10.7	
10256.0			4.0	210	9.6	11.0	
10258.0			4.0	208	9.7	11.2	
10260.0			4.0	206	10.1	12.1	
10262.0			4.0	208	11.4	14.2	
10264.0			3.9	210	12.8	15.5	
10266.0			4.0	209	11.6	13.5	
10268.0			4.1	207	9.2	10.7	
10270.0	5.4	219	4.1	208	8.6	10.2	3
10272.0			4.1	210	8.5	9.7	
10274.0			4.1	210	8.5	9.5	
10276.0	4.0	281	4.2	208	8.5	9.5	3
10278.0	8.3	3	4.2	206	8.5	9.1	1
10280.0	15.0	358	4.2	206	8.6	9.6	3
10282.0			4.2	206	8.7	9.9	
10284.0	4.4	188	4.2	207	8.7	9.8	3
10286.0	4.0	215	4.1	208	8.9	9.8	3
10288.0	3.0	328	4.1	208	8.9	9.8	3
10290.0	2.4	350	4.1	207	9.4	10.8	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
10292.0	9.7	336	4.1	205	9.7	11.9	4
10294.0	11.2	327	4.1	204	9.6	11.4	4
10296.0	10.0	291	4.1	204	9.5	10.6	4
10298.0	10.8	289	4.0	204	9.3	9.6	4
10300.0	1.0	176	4.0	206	9.2	9.2	4
10302.0	1.1	132	4.1	208	9.2	9.1	4
10304.0			4.0	207	9.1	9.1	
10306.0			4.0	205	9.1	9.1	
10308.0	20.1	1	4.0	205	9.1	9.0	2
10310.0	12.5	10	4.0	205	9.0	9.0	4
10312.0			4.1	207	8.9	8.9	
10314.0	5.8	324	4.0	207	8.9	8.8	4
10316.0	5.6	344	4.0	207	8.9	8.8	4
10318.0	7.2	20	4.0	206	8.9	8.8	4
10320.0	7.0	54	4.0	206	9.1	9.0	4
10322.0	8.3	63	4.0	206	9.1	9.0	2
10324.0	8.4	56	4.0	206	9.0	8.9	2
10326.0	5.3	44	4.0	206	9.0	8.9	4
10328.0	5.6	38	4.0	206	9.0	8.9	4
10330.0			3.9	206	9.0	8.9	
10332.0			3.9	206	8.9	8.8	
10334.0			3.9	206	8.9	8.8	
10336.0			3.9	206	8.9	8.8	
10338.0	16.3	9	3.9	205	9.0	8.8	3
10340.0			3.9	204	9.0	8.8	
10342.0			3.9	202	9.0	8.8	
10344.0	9.1	34	3.9	200	9.0	8.8	1
10346.0	14.9	8	3.9	199	9.1	8.9	3
10348.0	16.0	3	3.9	199	9.1	8.9	3
10350.0	16.3	355	3.9	198	9.2	8.9	4
10352.0	15.5	346	3.9	199	9.1	8.8	4
10354.0	8.2	354	3.9	201	9.0	8.8	4
10356.0	13.8	328	3.9	203	9.0	8.8	2
10358.0	4.1	7	3.9	204	9.2	8.9	4
10360.0	3.6	331	3.9	204	9.6	9.1	2
10362.0			3.7	200	10.0	9.1	
10364.0	6.3	262	3.8	197	11.9	9.9	2
10366.0			3.7	199	12.8	10.7	
10368.0	8.2	307	3.8	203	10.8	9.8	2
10370.0	10.2	276	3.9	204	9.7	9.1	3
10372.0	9.0	257	3.9	203	9.3	9.0	3
10374.0	3.6	302	4.0	202	9.2	8.9	1
10376.0	14.2	176	3.9	202	9.1	8.9	3
10378.0			3.9	201	9.2	8.9	
10380.0			3.9	200	9.3	8.9	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
10382.0	9.1	302	3.7	193	9.4	8.9	1
10384.0	2.3	223	3.8	194	9.5	8.9	1
10386.0	4.4	22	4.0	200	9.8	9.0	1
10388.0	3.6	11	4.0	201	9.5	9.0	1
10390.0	10.1	51	4.0	201	9.0	8.9	2
10392.0	1.3	244	4.0	201	9.0	8.9	4
10394.0	0.5	108	3.9	202	9.3	9.0	4
10396.0	3.2	48	3.8	202	10.2	9.0	4
10398.0	4.0	334	3.8	199	9.9	9.0	4
10400.0	4.4	347	3.9	199	9.2	9.1	4
10402.0	6.6	45	3.9	200	9.2	9.1	4
10404.0	6.8	43	3.8	198	9.7	9.1	4
10406.0	2.6	172	3.9	197	9.9	9.1	4
10408.0	5.9	184	3.9	197	9.5	9.1	4
10410.0	3.6	340	3.9	200	9.3	9.1	1
10412.0	6.8	53	3.9	202	9.1	9.1	1
10414.0	4.2	77	3.8	201	9.1	9.1	3
10416.0	4.1	16	3.9	201	9.2	9.1	1
10418.0			4.0	202	9.4	9.2	
10420.0	15.0	328	3.9	203	9.4	9.2	3
10422.0	15.2	306	3.8	202	9.1	9.1	3
10424.0	5.6	39	4.0	200	8.9	9.0	3
10426.0	8.9	58	4.1	199	8.9	8.9	1
10428.0	10.6	30	4.0	199	8.9	8.9	3
10430.0	8.8	358	4.0	199	9.0	8.9	4
10432.0	6.6	356	3.9	199	9.3	9.0	4
10434.0	5.8	8	3.9	200	9.4	9.1	2
10436.0	5.3	12	3.9	202	9.2	9.0	4
10438.0	6.0	54	3.8	201	9.1	9.0	4
10440.0	7.2	38	3.8	199	9.7	9.0	4
10442.0	6.6	344	3.8	198	10.9	9.3	4
10444.0	1.8	307	3.9	197	10.7	9.5	4
10446.0			3.9	197	9.5	9.1	
10448.0	2.5	257	3.9	197	9.2	9.1	2
10450.0	3.1	330	3.9	200	9.2	9.1	2
10452.0	1.0	46	3.9	202	9.2	9.1	2
10454.0	4.1	42	4.0	201	9.2	9.1	2
10456.0	4.0	88	3.9	201	9.4	9.1	4
10458.0	2.9	69	3.8	201	9.4	9.1	4
10460.0	1.4	2	3.8	200	9.7	9.1	4
10462.0	3.8	127	3.9	198	10.6	9.2	4
10464.0	2.0	127	3.9	198	11.3	9.8	4
10466.0	1.8	136	3.9	199	12.4	11.2	4
10468.0	3.4	274	3.9	198	12.1	10.8	2
10470.0	3.3	204	4.0	200	9.9	9.2	1

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
10472.0			4.0	201	9.2	9.1	
10474.0	7.2	70	4.0	200	9.0	9.0	1
10476.0			4.1	198	9.1	9.0	
10478.0			3.9	194	9.1	9.0	
10480.0			3.8	192	9.2	9.0	
10482.0			3.9	195	9.4	9.1	
10484.0	7.2	100	4.0	195	9.4	9.2	3
10486.0	7.8	100	4.0	192	11.2	10.4	3
10488.0			3.9	192	12.9	11.2	
10490.0			3.9	192	11.3	9.9	
10492.0			3.8	193	9.9	9.2	
10494.0	6.7	54	3.8	193	9.6	9.1	3
10496.0	6.3	39	3.8	190	9.3	9.1	4
10498.0	7.6	40	3.8	188	9.5	9.1	4
10500.0	8.8	69	3.8	190	9.8	9.2	2
10502.0	12.3	55	3.9	193	9.5	9.2	2
10504.0	3.6	58	4.0	195	9.2	9.2	4
10506.0	4.1	62	4.0	195	9.2	9.1	4
10508.0	6.0	63	4.1	198	9.1	9.1	4
10510.0	0.8	356	4.1	202	9.1	9.1	2
10512.0			4.1	201	9.0	9.1	
10514.0	2.5	30	4.1	199	9.1	9.1	2
10516.0	4.4	217	4.1	188	9.8	9.4	1
10518.0	9.8	242	4.0	182	10.6	9.6	1
10520.0	7.8	113	4.1	185	10.2	9.3	1
10522.0	8.4	107	4.2	188	9.4	9.0	1
10524.0	8.0	259	4.1	189	9.2	9.0	1
10526.0	2.4	41	4.1	190	9.0	8.8	3
10528.0	2.0	6	4.1	190	8.9	8.8	3
10530.0	12.3	299	4.1	190	8.9	8.7	1
10532.0	21.3	306	4.1	190	8.9	8.8	3
10534.0	4.0	268	4.0	191	8.9	8.8	3
10536.0	3.6	289	4.0	192	8.9	8.8	1
10538.0	5.4	40	4.1	193	8.9	8.8	3
10540.0	5.6	64	4.0	194	8.9	8.8	1
10542.0			4.0	194	8.9	8.9	
10544.0	8.6	360	4.1	195	8.9	8.9	1
10546.0	4.2	75	4.0	195	8.9	9.0	3
10548.0	4.6	105	4.0	195	9.1	9.1	3
10550.0	3.3	35	4.0	196	9.1	9.1	3
10552.0	3.6	237	4.0	196	9.2	9.2	1
10554.0	4.1	234	4.0	196	9.2	9.2	1
10556.0	4.1	348	4.0	196	9.3	9.3	4
10558.0	6.1	360	4.0	195	9.3	9.4	4
10560.0	10.2	327	3.9	197	9.6	10.6	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
10562.0	9.4	328	3.8	197	10.0	12.3	4
10564.0	10.8	17	3.9	197	10.4	12.2	2
10566.0			4.0	198	10.1	10.9	
10568.0	7.5	320	4.0	199	9.5	10.0	2
10570.0	7.9	352	4.1	199	9.3	9.5	2
10572.0	6.9	357	4.1	199	9.3	9.4	4
10574.0	30.0	55	4.1	198	9.8	9.8	3
10576.0	26.6	53	4.1	197	11.0	10.6	3
10578.0	5.7	69	4.1	197	10.5	10.1	4
10580.0	5.7	41	4.1	198	9.3	9.2	4
10582.0	27.3	52	4.2	198	9.3	9.2	1
10584.0	4.4	222	4.3	195	9.5	9.4	4
10586.0	3.8	219	4.2	196	11.2	10.0	4
10588.0	2.6	294	4.1	197	12.4	10.4	4
10590.0	2.7	104	4.1	198	11.4	10.1	2
10592.0	1.5	24	4.1	200	10.1	9.6	4
10594.0	6.3	204	4.1	199	9.3	9.2	4
10596.0	6.9	180	4.1	198	9.2	9.1	4
10598.0	2.7	339	4.1	198	9.1	9.1	4
10600.0	2.8	192	4.1	200	9.0	9.0	4
10602.0	6.8	356	4.1	201	8.9	8.9	2
10604.0	5.7	127	4.1	207	8.9	8.9	2
10606.0			4.1	209	8.8	8.8	
10608.0	8.3	252	4.2	207	8.9	8.9	4
10610.0	6.1	258	4.1	208	9.1	9.0	4
10612.0	3.3	335	4.0	205	9.2	9.1	4
10614.0	8.4	214	4.0	202	9.1	9.0	4
10616.0	9.2	175	4.0	201	9.1	9.1	3
10618.0			4.0	200	9.2	9.1	
10620.0			4.0	199	9.2	9.7	
10622.0	3.2	211	4.1	199	9.3	10.8	1
10624.0	4.8	174	4.0	200	9.3	10.2	3
10626.0			4.0	200	9.2	9.3	
10628.0	3.3	10	4.0	202	9.2	9.2	1
10630.0	2.9	13	4.0	203	9.1	9.1	1
10632.0	8.0	60	4.0	202	9.1	9.1	1
10634.0			4.0	199	9.1	9.1	
10636.0	6.4	43	4.0	200	9.1	9.1	1
10638.0	3.4	16	3.9	201	9.1	9.1	1
10640.0	12.4	193	3.9	200	9.1	9.1	1
10642.0	9.8	52	3.8	199	9.2	9.1	1
10644.0	8.6	180	3.8	201	9.2	9.1	1
10646.0	5.0	303	3.8	202	9.1	9.1	1
10648.0	4.1	32	3.8	201	9.0	9.1	1
10650.0			3.7	200	9.0	9.1	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
10652.0	7.1	60	3.8	201	9.0	9.1	1
10654.0	4.8	158	3.8	204	9.0	9.0	3
10656.0	5.4	130	3.7	206	8.9	9.0	3
10658.0	3.6	96	3.8	206	8.9	9.0	1
10660.0	12.0	144	3.7	204	8.9	9.0	1
10662.0			3.7	201	8.9	8.9	
10664.0			3.7	195	8.9	8.9	
10666.0	4.3	106	3.7	191	8.9	8.9	1
10668.0			3.7	189	9.0	8.9	
10670.0			3.6	190	9.0	8.9	
10672.0			3.7	192	9.0	9.0	
10674.0			3.6	194	9.0	8.9	
10676.0			3.6	195	9.0	8.9	
10678.0			3.6	196	9.0	8.9	
10680.0	59.1	41	3.6	195	9.0	8.9	1
10682.0			3.6	195	9.0	8.9	
10684.0	7.2	93	3.6	197	9.0	8.8	1
10686.0	8.9	159	3.6	198	9.0	8.8	1
10688.0	10.7	162	3.5	198	8.9	8.8	1
10690.0			3.5	197	8.9	8.8	
10692.0	58.2	40	3.5	198	8.9	8.8	3
10694.0	10.4	164	3.5	200	8.9	8.8	1
10696.0			3.5	201	8.9	8.8	
10698.0	14.1	254	3.5	201	8.9	8.9	1
10700.0			3.6	201	8.9	9.0	
10702.0			3.6	201	9.0	9.0	
10704.0			3.5	202	9.0	9.1	
10706.0			3.5	202	9.1	9.1	
10708.0			3.5	202	9.2	9.1	
10710.0			3.5	202	9.2	9.2	
10712.0	4.3	254	3.6	202	9.2	9.2	1
10714.0	7.0	274	3.6	202	9.2	9.2	3
10716.0	7.9	250	3.5	203	9.2	9.2	2
10718.0	16.0	17	3.5	209	9.2	9.2	2
10720.0			3.5	212	9.2	9.1	
10722.0	4.9	331	3.6	208	9.2	9.1	4
10724.0	7.3	356	3.6	207	9.2	9.1	4
10726.0	6.3	354	3.6	207	9.1	9.0	2
10728.0	5.6	352	3.6	204	9.0	9.0	2
10730.0	5.0	40	3.6	206	9.0	9.0	2
10732.0			3.6	207	8.9	9.0	
10734.0			3.7	205	8.9	9.0	
10736.0	14.9	105	3.7	203	8.9	9.0	3
10738.0			3.7	207	8.9	9.0	
10740.0			3.7	208	8.9	9.0	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
10742.0			3.7	206	8.9	9.1	
10744.0	50.9	205	3.5	203	9.0	9.1	3
10746.0	13.2	115	3.6	203	9.0	9.1	1
10748.0	10.5	114	3.6	206	9.0	9.1	1
10750.0			3.6	207	9.0	9.1	
10752.0			3.6	206	9.1	9.1	
10754.0	10.4	111	3.6	204	9.2	9.2	1
10756.0	6.1	126	3.6	205	9.2	9.2	1
10758.0			3.5	206	9.2	9.2	
10760.0			3.6	204	9.2	9.2	
10762.0			3.6	199	9.2	9.2	
10764.0			3.6	194	9.2	9.2	
10766.0	9.0	126	3.6	191	9.2	9.2	1
10768.0			3.7	189	9.2	9.2	
10770.0	9.0	131	3.7	189	9.2	9.1	1
10772.0	13.1	127	3.6	191	9.2	9.1	1
10774.0			3.6	194	9.2	9.1	
10776.0	6.0	353	3.6	195	9.2	9.1	1
10778.0	4.9	19	3.6	195	9.2	9.1	1
10780.0			3.5	196	9.2	9.1	
10782.0	4.8	153	3.6	197	9.2	9.1	1
10784.0	43.2	46	3.6	198	9.2	9.1	3
10786.0	3.6	89	3.6	199	9.2	9.1	1
10788.0	2.9	43	3.6	199	9.2	9.1	3
10790.0	3.2	88	3.6	198	9.2	9.1	3
10792.0	2.8	93	3.6	199	9.2	9.1	1
10794.0	8.4	115	3.6	200	9.2	9.1	1
10796.0	6.8	291	3.6	199	9.2	9.2	4
10798.0	6.3	23	3.5	198	9.2	9.1	2
10800.0	5.9	238	3.6	198	9.2	9.1	4
10802.0	6.5	232	3.5	197	9.2	9.1	4
10804.0	5.5	222	3.5	196	9.2	9.0	4
10806.0	5.5	216	3.6	196	9.2	9.0	4
10808.0	6.4	202	3.6	195	9.2	9.0	4
10810.0	4.8	125	3.6	196	9.1	9.0	2
10812.0			3.6	198	9.1	9.0	
10814.0	6.5	336	3.6	200	9.1	9.0	2
10816.0	4.3	279	3.6	201	9.1	9.0	4
10818.0	7.4	123	3.6	201	9.2	9.0	4
10820.0	8.8	170	3.6	200	9.2	9.0	4
10822.0	55.7	96	3.7	199	9.2	9.1	3
10824.0	54.1	95	3.6	199	9.1	9.1	1
10826.0	7.4	180	3.6	201	9.2	9.1	2
10828.0	8.8	293	3.6	201	9.2	9.1	2
10830.0	5.2	98	3.5	201	9.1	9.0	2

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
10832.0	2.4	283	3.6	202	9.0	8.9	2
10834.0	5.0	306	3.6	202	8.9	8.9	4
10836.0	12.8	28	3.6	203	8.8	8.8	4
10838.0	12.3	15	3.6	203	8.8	8.8	4
10840.0	9.6	5	3.6	203	8.7	8.8	4
10842.0	10.1	360	3.6	204	8.7	8.7	4
10844.0	5.2	220	3.6	208	8.8	8.7	1
10846.0	3.4	271	3.7	212	8.8	8.7	1
10848.0	2.7	337	3.8	214	8.9	8.7	3
10850.0	2.7	351	3.7	212	8.9	8.7	3
10852.0	6.4	2	3.7	208	9.0	8.8	1
10854.0	4.8	14	3.7	207	9.1	8.9	1
10856.0	2.0	193	3.6	206	9.2	9.0	1
10858.0	2.6	338	3.6	204	9.2	9.1	3
10860.0	4.7	338	3.7	201	9.3	9.3	3
10862.0	8.0	50	3.7	202	9.4	9.6	1
10864.0	9.9	325	3.7	202	9.5	10.7	1
10866.0	5.8	268	3.6	202	9.6	10.9	1
10868.0	6.5	281	3.7	202	9.9	11.4	1
10870.0	4.0	313	3.8	202	10.2	12.3	1
10872.0	3.4	293	3.7	201	10.1	11.4	1
10874.0	1.7	140	3.7	201	9.8	10.4	3
10876.0	2.0	119	3.7	201	9.7	10.6	3
10878.0	4.9	28	3.7	203	9.8	10.6	1
10880.0	19.6	175	3.8	204	9.8	10.2	3
10882.0	15.4	170	3.8	202	9.6	10.1	3
10884.0	6.9	25	3.8	201	9.5	10.0	4
10886.0	6.9	23	3.8	202	9.4	10.3	4
10888.0	2.8	311	3.9	204	9.4	10.2	2
10890.0	11.2	280	4.0	203	9.2	9.6	2
10892.0	3.1	81	4.0	203	9.0	9.3	2
10894.0	11.8	8	3.9	204	8.8	9.0	4
10896.0	13.3	2	3.8	202	8.7	8.8	4
10898.0	12.8	355	3.9	200	8.5	8.7	4
10900.0	14.9	352	3.9	201	8.5	8.7	3
10902.0	14.5	2	3.8	203	8.5	8.7	1
10904.0	12.6	357	3.8	204	8.5	8.7	3
10906.0	9.2	340	3.9	204	8.6	8.8	1
10908.0	13.6	36	3.9	201	8.7	8.8	1
10910.0	13.4	31	3.8	200	8.7	8.8	1
10912.0			3.8	203	8.8	8.8	
10914.0	6.4	47	3.7	204	8.9	8.9	1
10916.0	13.5	18	3.7	201	8.9	9.0	1
10918.0			3.6	195	9.0	9.0	
10920.0	6.5	49	3.6	188	9.0	9.0	1

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
10922.0	6.9	203	3.6	186	9.0	9.0	1
10924.0	10.0	218	3.6	188	9.0	9.0	1
10926.0	14.5	26	3.6	190	9.1	9.0	1
10928.0			3.6	192	9.1	9.1	
10930.0			3.6	192	9.2	9.1	
10932.0	1.7	308	3.6	191	9.2	9.1	1
10934.0	9.9	217	3.6	191	9.2	9.1	1
10936.0	1.6	253	3.5	191	9.2	9.1	1
10938.0	5.9	211	3.6	192	9.2	9.1	1
10940.0	6.0	274	3.7	193	9.2	9.1	1
10942.0	4.7	280	3.7	194	9.2	9.0	1
10944.0	9.4	320	3.6	194	9.2	9.0	1
10946.0	8.2	313	3.6	194	9.1	9.0	1
10948.0	1.9	104	3.7	195	9.0	9.0	1
10950.0			3.7	196	8.9	8.9	
10952.0	4.6	324	3.7	196	8.7	8.8	3
10954.0	4.2	310	3.7	195	8.6	8.7	3
10956.0	2.6	259	3.7	195	8.4	8.6	1
10958.0	3.0	284	3.7	196	8.4	8.6	3
10960.0	5.1	262	3.7	196	8.4	8.5	3
10962.0	6.2	275	3.8	194	8.4	8.5	3
10964.0	6.1	285	3.7	196	8.4	8.5	3
10966.0	8.9	341	3.7	203	8.5	8.5	3
10968.0	9.2	329	3.8	204	8.6	8.6	1
10970.0	21.3	95	3.7	201	8.6	8.6	3
10972.0	22.4	84	3.7	200	8.6	8.6	3
10974.0	17.3	87	3.6	200	8.6	8.6	1
10976.0			3.6	199	8.7	8.7	
10978.0			3.6	200	8.7	8.7	
10980.0	4.8	74	3.6	200	8.7	8.7	2
10982.0	5.2	66	3.6	199	8.7	8.7	2
10984.0			3.6	199	8.6	8.7	
10986.0			3.6	197	8.6	8.7	
10988.0	15.2	28	3.6	199	8.6	8.6	2
10990.0	5.8	242	3.7	199	8.6	8.6	4
10992.0	4.1	7	3.7	198	8.6	8.6	4
10994.0	9.9	185	3.7	198	8.6	8.6	2
10996.0	2.0	322	3.6	200	8.8	8.7	2
10998.0	1.4	136	3.6	200	8.9	8.8	4
11000.0	9.9	73	3.6	192	9.0	8.9	2
11002.0	14.8	36	3.6	187	9.0	9.0	2
11004.0	1.6	112	3.6	187	9.0	9.0	2
11006.0	4.6	46	3.6	189	9.0	9.0	4
11008.0	5.9	20	3.5	190	8.9	8.9	2
11010.0	5.2	27	3.5	191	8.8	8.7	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
11012.0	4.3	53	3.4	192	8.6	8.6	2
11014.0	5.3	51	3.4	193	8.5	8.4	2
11016.0	12.9	59	3.4	193	8.4	8.4	2
11018.0	7.2	335	3.5	193	8.3	8.3	2
11020.0	5.6	159	3.5	195	8.3	8.3	1
11022.0			3.5	196	8.3	8.3	
11024.0	4.9	8	3.5	196	8.3	8.3	1
11026.0	2.3	287	3.5	196	8.3	8.3	1
11028.0	3.0	254	3.6	196	8.3	8.3	3
11030.0	13.8	355	3.5	195	8.3	8.3	1
11032.0	6.4	3	3.5	198	8.3	8.3	1
11034.0	6.3	33	3.5	204	8.3	8.3	1
11036.0	7.7	20	3.4	205	8.3	8.3	3
11038.0	12.8	21	3.4	202	8.3	8.3	3
11040.0	13.5	3	3.4	201	8.3	8.4	3
11042.0	7.4	237	3.5	200	8.5	8.6	3
11044.0	6.2	61	3.4	198	8.6	8.8	3
11046.0	10.7	31	3.4	199	8.7	8.9	3
11048.0	12.3	28	3.5	198	8.9	9.2	1
11050.0	5.1	43	3.4	198	8.9	8.9	1
11052.0	7.4	50	3.5	199	8.9	8.8	1
11054.0	12.2	9	3.5	199	8.9	8.9	3
11056.0	7.6	358	3.5	197	8.9	8.9	3
11058.0	5.5	60	3.5	199	8.9	8.8	1
11060.0	4.5	5	3.4	199	8.8	8.8	1
11062.0	1.7	319	3.4	198	8.7	8.8	1
11064.0			3.3	199	8.6	8.6	
11066.0	4.4	323	3.4	193	8.3	8.4	1
11068.0	4.1	307	3.5	187	8.3	8.3	3
11070.0			3.5	187	8.3	8.3	
11072.0			3.4	189	8.3	8.3	
11074.0			3.4	190	8.3	8.3	
11076.0			3.4	192	8.3	8.2	
11078.0			3.4	192	8.3	8.2	
11080.0	7.8	348	3.4	192	8.3	8.2	2
11082.0	16.6	358	3.4	192	8.3	8.2	4
11084.0	16.3	353	3.3	192	8.3	8.3	4
11086.0	8.1	15	3.3	193	8.3	8.4	4
11088.0	15.4	349	3.3	194	8.4	8.5	4
11090.0	6.4	14	3.4	196	8.5	8.5	2
11092.0	12.5	8	3.5	196	8.6	8.7	4
11094.0	13.0	8	3.5	197	8.7	8.7	4
11096.0	9.4	178	3.5	196	8.7	8.7	3
11098.0	10.9	159	3.4	197	8.8	8.8	3
11100.0			3.5	204	8.8	8.7	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
11102.0	4.3	332	3.5	206	8.6	8.6	1
11104.0	7.8	6	3.5	202	8.4	8.5	1
11106.0	4.5	349	3.6	200	8.4	8.4	3
11108.0	5.5	291	3.6	199	8.5	8.5	3
11110.0	6.9	312	3.6	199	8.5	8.6	3
11112.0	4.7	327	3.5	198	8.6	8.6	3
11114.0	6.5	97	3.5	198	8.8	8.7	1
11116.0	7.3	18	3.6	200	8.8	8.7	1
11118.0			3.6	198	8.8	8.7	
11120.0	2.2	25	3.6	198	8.8	8.8	4
11122.0	6.2	360	3.6	200	8.8	8.8	4
11124.0	5.1	341	3.5	199	8.8	8.8	4
11126.0	6.2	11	3.5	198	8.8	8.8	4
11128.0	3.9	23	3.5	200	8.6	8.7	4
11130.0	5.9	173	3.5	197	8.6	8.6	4
11132.0	7.6	195	3.5	188	8.7	8.7	4
11134.0	2.3	258	3.5	187	8.5	8.6	4
11136.0	4.9	215	3.4	188	8.4	8.5	2
11138.0			3.4	189	8.4	8.5	
11140.0	6.0	134	3.4	189	8.4	8.4	2
11142.0	9.0	127	3.4	190	8.4	8.4	2
11144.0			3.4	191	8.4	8.4	
11146.0	13.9	120	3.3	190	8.4	8.4	2
11148.0	9.6	31	3.3	190	8.3	8.4	4
11150.0	7.3	72	3.2	192	8.4	8.4	4
11152.0	8.3	62	3.3	193	8.5	8.5	4
11154.0	7.0	47	3.4	194	8.6	8.6	4
11156.0	10.7	346	3.3	194	8.6	8.6	2
11158.0	2.3	158	3.4	196	8.7	8.7	4
11160.0	3.1	130	3.5	202	8.5	8.5	3
11162.0	7.1	107	3.5	202	8.3	8.3	1
11164.0	4.7	93	3.5	200	8.3	8.3	1
11166.0	4.3	83	3.5	199	8.3	8.3	1
11168.0			3.5	198	8.3	8.3	
11170.0			3.5	197	8.3	8.2	
11172.0	8.9	42	3.5	196	8.3	8.2	1
11174.0	5.9	79	3.5	196	8.3	8.2	1
11176.0	8.6	136	3.5	197	8.3	8.2	1
11178.0	4.1	216	3.5	198	8.3	8.3	1
11180.0	6.1	174	3.4	199	8.3	8.3	4
11182.0	3.5	184	3.4	198	8.3	8.3	4
11184.0	4.7	268	3.4	198	8.5	8.3	4
11186.0			3.3	200	8.5	8.3	
11188.0	14.6	174	3.3	195	8.3	8.3	2
11190.0			3.3	188	8.3	8.4	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
11192.0	4.0	270	3.3	188	8.3	8.4	4
11194.0	1.9	267	3.3	189	8.5	8.5	4
11196.0	2.7	351	3.2	189	8.5	8.7	4
11198.0	2.1	281	3.3	190	8.4	8.6	4
11200.0	3.8	31	3.3	191	8.4	8.4	4
11202.0	5.3	360	3.3	191	8.4	8.3	4
11204.0	7.7	344	3.3	191	8.3	8.2	4
11206.0	7.1	338	3.2	193	8.2	8.2	4
11208.0	2.4	101	3.2	193	8.3	8.2	4
11210.0	4.7	65	3.3	194	8.5	8.4	4
11212.0	3.6	330	3.3	194	8.4	8.4	4
11214.0	2.0	82	3.3	199	8.2	8.2	4
11216.0	6.3	60	3.4	203	8.2	8.2	4
11218.0	4.5	20	3.4	201	8.3	8.3	4
11220.0	3.9	9	3.3	200	8.3	8.3	4
11222.0	5.8	43	3.3	198	8.2	8.2	4
11224.0	7.1	60	3.3	197	8.2	8.1	4
11226.0	8.2	40	3.4	196	8.2	8.1	2
11228.0			3.4	197	8.2	8.2	
11230.0	7.4	32	3.4	198	8.3	8.2	4
11232.0	6.8	29	3.4	198	8.3	8.2	4
11234.0	10.5	1	3.3	198	8.3	8.3	4
11236.0	8.1	325	3.3	198	8.3	8.3	2
11238.0	20.1	175	3.3	195	8.4	8.4	3
11240.0	1.0	244	3.2	189	8.7	8.7	4
11242.0	8.2	351	3.2	189	8.7	8.7	4
11244.0	8.9	334	3.2	190	8.4	8.4	4
11246.0	2.7	40	3.2	191	8.3	8.3	4
11248.0			3.1	192	8.3	8.4	
11250.0	5.6	146	3.1	192	8.5	8.5	2
11252.0	4.6	34	3.1	192	8.6	8.6	4
11254.0	5.3	35	3.1	192	8.6	8.6	4
11256.0	2.7	129	3.2	194	8.5	8.6	4
11258.0	4.7	130	3.2	194	8.4	8.6	4
11260.0	2.0	153	3.3	194	8.4	8.6	4
11262.0	6.6	258	3.3	194	8.4	8.6	4
11264.0	9.7	250	3.3	199	8.5	8.6	3
11266.0	10.5	340	3.3	203	8.4	8.5	4
11268.0	10.8	332	3.3	201	8.3	8.3	4
11270.0	6.5	346	3.3	199	8.3	8.3	4
11272.0	5.6	312	3.3	198	8.4	8.3	4
11274.0	7.8	305	3.2	198	8.3	8.3	2
11276.0	7.6	316	3.3	196	8.3	8.3	4
11278.0	1.3	219	3.3	197	8.5	8.5	2
11280.0	7.4	355	3.3	197	8.5	8.5	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
11282.0	7.3	354	3.3	198	8.4	8.4	4
11284.0	4.5	348	3.2	199	8.4	8.4	4
11286.0	4.6	307	3.2	199	8.5	8.6	4
11288.0	2.4	225	3.1	195	8.5	8.6	4
11290.0	2.1	176	3.2	188	8.3	8.4	4
11292.0	2.6	284	3.2	188	8.3	8.3	4
11294.0	2.2	193	3.1	189	8.3	8.3	2
11296.0	8.9	211	3.1	190	8.3	8.3	4
11298.0	8.7	204	3.1	190	8.3	8.3	4
11300.0	8.6	192	3.2	189	8.3	8.3	4
11302.0	5.6	170	3.1	189	8.3	8.4	4
11304.0	6.1	127	3.1	192	8.4	8.5	4
11306.0	11.2	30	3.2	191	8.6	8.6	2
11308.0	1.5	330	3.2	192	8.6	8.6	4
11310.0	3.5	6	3.2	192	8.6	8.6	4
11312.0	5.3	3	3.1	192	8.7	8.7	4
11314.0	4.7	51	3.2	196	8.6	8.6	4
11316.0	5.7	58	3.3	199	8.6	8.7	4
11318.0	10.0	56	3.3	197	8.6	8.6	4
11320.0	6.5	41	3.3	196	8.4	8.5	4
11322.0	4.0	52	3.3	196	8.3	8.4	4
11324.0	5.4	64	3.2	194	8.4	8.3	4
11326.0	3.9	28	3.3	194	8.4	8.4	4
11328.0	5.5	344	3.2	194	8.6	8.6	4
11330.0	6.0	357	3.2	195	8.7	8.7	4
11332.0	10.3	54	3.2	197	8.8	8.7	4
11334.0	6.9	360	3.3	197	8.8	8.8	4
11336.0	5.2	341	3.2	192	8.8	8.7	4
11338.0	2.5	268	3.2	186	8.6	8.6	4
11340.0	3.0	205	3.3	186	8.5	8.5	4
11342.0	2.6	17	3.2	187	8.7	8.7	2
11344.0	2.2	50	3.2	187	8.6	8.7	4
11346.0	18.4	357	3.2	187	8.6	8.6	3
11348.0	15.1	8	3.2	188	8.6	8.7	4
11350.0	6.1	313	3.2	188	8.6	8.6	4
11352.0	4.8	318	3.2	190	8.4	8.4	4
11354.0	2.4	49	3.3	190	8.5	8.5	4
11356.0	6.2	86	3.2	191	8.6	8.6	4
11358.0	4.9	48	3.2	190	8.6	8.7	2
11360.0	1.0	201	3.2	193	8.6	8.7	4
11362.0	2.1	23	3.2	199	8.6	8.7	4
11364.0	2.9	112	3.3	200	8.5	8.6	4
11366.0	1.1	94	3.3	197	8.4	8.4	2
11368.0	8.1	341	3.2	197	8.4	8.4	4
11370.0	7.5	333	3.2	198	8.4	8.3	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
11372.0	14.9	15	3.2	196	8.3	8.3	4
11374.0	10.8	358	3.2	194	8.3	8.3	4
11376.0	5.7	357	3.2	195	8.3	8.3	4
11378.0	3.8	356	3.3	197	8.3	8.3	4
11380.0	15.7	322	3.3	199	8.3	8.3	4
11382.0	6.9	303	3.3	199	8.3	8.3	4
11384.0	3.7	313	3.3	194	8.3	8.3	4
11386.0	9.4	10	3.3	188	8.3	8.3	4
11388.0	10.1	1	3.3	189	8.3	8.3	4
11390.0	11.2	346	3.3	190	8.3	8.3	4
11392.0	7.8	19	3.3	190	8.3	8.3	4
11394.0	6.4	18	3.3	189	8.3	8.3	4
11396.0	3.0	18	3.2	191	8.5	8.4	4
11398.0	0.6	51	3.3	191	8.5	8.5	2
11400.0	5.6	196	3.3	191	8.4	8.4	4
11402.0	7.5	187	3.4	194	8.3	8.3	4
11404.0	3.1	180	3.4	194	8.4	8.4	2
11406.0	10.7	17	3.5	197	8.4	8.5	2
11408.0	7.4	50	3.5	202	8.4	8.4	2
11410.0	4.2	18	3.4	200	8.3	8.3	4
11412.0	2.0	321	3.5	199	8.4	8.3	4
11414.0	1.6	343	3.6	198	8.4	8.3	4
11416.0	4.1	30	3.6	198	8.4	8.3	4
11418.0	11.2	111	3.6	198	8.4	8.3	2
11420.0	7.7	118	3.6	198	8.3	8.3	2
11422.0	3.8	125	3.6	199	8.3	8.3	4
11424.0	6.3	64	3.5	198	8.3	8.4	4
11426.0	5.7	44	3.5	199	8.4	8.4	4
11428.0	3.8	20	3.6	197	8.4	8.4	4
11430.0	1.5	211	3.5	191	8.3	8.3	4
11432.0	2.7	159	3.5	190	8.3	8.3	4
11434.0	2.4	140	3.4	190	8.3	8.3	4
11436.0	3.2	44	3.4	191	8.3	8.3	4
11438.0	10.1	39	3.4	192	8.3	8.3	4
11440.0	11.4	35	3.4	192	8.3	8.3	4
11442.0	7.9	35	3.4	193	8.3	8.3	4
11444.0	10.2	42	3.4	194	8.3	8.3	2
11446.0	10.7	9	3.5	194	8.3	8.3	1
11448.0	7.0	340	3.5	197	8.3	8.3	1
11450.0	8.9	343	3.6	201	8.4	8.4	1
11452.0			3.6	200	8.4	8.4	
11454.0	7.4	346	3.7	199	8.4	8.5	1
11456.0	7.5	26	3.7	198	8.4	8.4	3
11458.0	14.5	28	3.6	199	8.4	8.4	1
11460.0			3.6	198	8.3	8.3	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
11462.0	7.0	27	3.6	197	8.3	8.3	1
11464.0	7.0	12	3.5	197	8.3	8.4	3
11466.0	5.4	53	3.5	197	8.4	8.5	4
11468.0	10.0	32	3.5	198	8.4	8.5	2
11470.0	7.5	6	3.5	196	8.4	8.5	4
11472.0	11.6	26	3.6	189	8.4	8.4	4
11474.0	11.3	14	3.6	192	8.8	8.4	4
11476.0	7.6	4	3.6	194	8.9	8.4	4
11478.0	5.7	11	3.6	191	8.4	8.4	4
11480.0	3.3	112	3.6	186	8.4	8.4	4
11482.0	4.0	63	3.6	185	8.4	8.4	4
11484.0	8.4	29	3.7	191	8.4	8.4	4
11486.0	10.7	29	3.7	192	8.3	8.4	4
11488.0	8.6	24	3.7	192	8.3	8.3	4
11490.0	3.9	104	3.7	196	8.3	8.4	4
11492.0	3.6	107	3.8	200	8.3	8.4	4
11494.0	2.9	50	3.8	197	8.4	8.4	4
11496.0	6.9	358	3.8	196	8.4	8.4	2
11498.0			3.9	196	8.4	8.4	
11500.0	6.2	322	3.9	196	8.4	8.4	4
11502.0	1.2	309	3.9	195	8.3	8.2	4
11504.0	7.8	41	3.9	196	8.2	8.2	4
11506.0	3.9	5	3.9	197	8.1	8.2	4
11508.0	3.2	4	3.9	195	8.2	8.3	4
11510.0	1.2	329	3.9	189	8.3	8.3	4
11512.0	2.7	10	3.9	185	8.2	8.2	4

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
6924.0	5.0	77	3.5	208	10.9	9.5	4
6926.0	3.4	44	3.5	208	10.9	9.6	4
6928.0	5.9	6	3.4	207	10.7	9.6	4
6930.0	6.4	20	3.5	207	10.5	9.5	4
6932.0	5.2	76	3.5	206	10.4	9.6	4
6934.0	4.5	25	3.5	206	10.3	9.6	4
6936.0	5.8	26	3.5	206	10.2	9.5	4
6938.0	1.9	357	3.7	209	10.2	9.4	4
6940.0	2.1	352	3.6	211	10.2	9.4	4
6942.0	4.9	204	3.7	207	10.2	9.5	4
6944.0	1.4	200	3.7	207	10.3	9.6	4
6946.0	7.8	14	3.7	208	10.4	9.6	2
6948.0	9.0	283	3.7	207	11.2	9.9	2
6950.0	7.6	264	3.7	207	11.8	10.2	2
6952.0	3.4	6	3.7	208	11.3	9.9	4
6954.0	1.0	151	3.7	208	11.0	9.7	4
6956.0	1.8	339	3.7	208	11.5	9.9	4
6958.0	4.3	283	3.7	207	11.4	10.0	2
6960.0	4.0	306	3.7	206	10.8	9.9	4
6962.0	9.3	288	3.7	206	10.7	10.0	4
6964.0	3.8	294	3.7	207	10.9	10.1	2
6966.0	10.7	312	3.7	206	10.7	10.0	4
6968.0	3.5	3	3.7	206	10.4	9.9	2
6970.0	2.9	306	3.7	206	10.2	9.8	4
6972.0	6.1	335	3.6	205	10.4	9.9	4
6974.0	5.1	343	3.6	205	10.8	10.0	4
6976.0	1.1	128	3.6	206	10.7	10.1	4
6978.0	1.8	179	3.6	207	10.3	9.9	4
6980.0	3.4	250	3.6	206	10.2	9.5	4
6982.0	8.3	176	3.6	206	10.5	9.3	2
6984.0	2.5	307	3.6	206	11.6	9.6	4
6986.0	4.5	117	3.6	206	11.6	9.6	2
6988.0	2.4	163	3.6	206	11.1	9.6	4
6990.0	1.6	250	3.6	207	10.6	9.7	4
6992.0	3.3	353	3.6	207	10.1	9.6	4
6994.0	3.2	15	3.6	207	10.0	9.5	4
6996.0	4.1	19	3.6	206	10.0	9.5	4
6998.0	3.8	6	3.6	205	10.0	9.5	4
7000.0	5.4	348	3.6	205	10.4	9.7	4
7002.0	4.8	340	3.5	205	10.7	9.8	4
7004.0	3.9	336	3.6	205	10.3	9.8	4
7006.0	4.6	11	3.6	204	10.1	9.8	4
7008.0	7.7	7	3.6	205	10.2	9.8	4
7010.0	6.8	11	3.7	206	10.7	9.9	4
7012.0	3.8	101	3.6	206	11.5	9.8	2

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
7014.0	3.3	154	3.4	205	11.9	9.8	4
7016.0	3.5	20	3.5	205	12.0	10.1	4
7018.0	7.1	279	3.5	206	11.4	10.1	4
7020.0	7.6	269	3.5	206	10.4	9.8	4
7022.0	4.9	327	3.5	206	10.1	9.7	4
7024.0	4.5	6	3.5	206	10.0	9.6	4
7026.0	5.7	19	3.5	206	10.0	9.6	4
7028.0	2.6	13	3.5	206	10.0	9.7	4
7030.0	0.5	50	3.5	206	10.1	9.8	4
7032.0	2.6	340	3.6	207	10.1	9.7	4
7034.0	1.1	274	3.6	207	10.0	9.6	4
7036.0	2.1	139	3.6	207	9.9	9.4	4
7038.0	4.1	39	3.6	207	10.0	9.5	4
7040.0	5.9	63	3.5	206	10.0	9.5	4
7042.0	4.6	37	3.5	206	10.0	9.3	4
7044.0	2.0	351	3.5	207	9.6	9.0	4
7046.0	8.7	133	3.5	207	9.7	8.9	2
7048.0	3.0	345	3.5	207	10.4	9.3	4
7050.0	4.6	29	3.5	206	10.5	9.6	2
7052.0	3.9	84	3.4	206	10.0	9.6	4
7054.0	3.0	98	3.4	207	10.0	9.6	4
7056.0	5.1	351	3.5	207	10.1	9.7	4
7058.0	6.0	344	3.4	207	10.2	9.8	4
7060.0	8.2	321	3.5	207	10.1	9.8	4
7062.0	6.2	312	3.5	207	10.1	9.7	4
7064.0	3.7	111	3.5	207	10.1	9.6	4
7066.0	1.6	105	3.4	207	10.0	9.5	4
7068.0	3.1	77	3.6	207	10.1	9.5	4
7070.0	7.9	167	3.6	207	10.2	9.7	4
7072.0	6.0	166	3.5	206	10.1	9.6	4
7074.0	3.8	16	3.5	206	10.0	9.4	4
7076.0	5.0	17	3.4	207	10.0	9.3	4
7078.0	5.2	354	3.5	207	10.0	9.3	4
7080.0	10.5	58	3.4	207	10.1	9.2	4
7082.0	8.8	63	3.4	207	10.1	9.3	4
7084.0	5.1	221	3.5	208	10.1	9.4	4
7086.0	1.1	309	3.5	208	10.2	9.6	4
7088.0	2.6	286	3.4	207	10.2	9.8	4
7090.0	5.3	310	3.4	206	10.2	9.7	4
7092.0	6.6	269	3.6	205	10.1	9.6	4
7094.0	5.9	294	3.5	207	10.1	9.7	4
7096.0	4.1	353	3.4	207	10.0	9.7	4
7098.0	3.5	40	3.4	206	9.9	9.6	4

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	DUAL. INDEX BEST =4
9248.0	5.5	308	3.8	222	8.8	8.8	4
9250.0	4.2	300	3.8	221	8.9	9.0	4
9252.0	5.7	72	3.8	220	8.9	9.1	4
9254.0			3.8	219	8.9	8.9	
9256.0			3.8	220	8.8	8.7	
9258.0	7.1	339	3.8	223	8.9	8.8	4
9260.0	6.3	338	3.8	222	9.0	9.0	3
9262.0	3.9	28	3.8	218	9.6	9.2	1
9264.0	4.8	27	3.9	216	11.3	9.6	1
9266.0	8.0	311	3.9	216	11.5	9.3	1
9268.0	6.5	3	3.9	215	10.6	8.9	3
9270.0	7.5	339	3.9	220	10.0	8.9	1
9272.0	6.9	353	3.9	223	9.1	8.8	1
9274.0	8.5	4	3.9	220	8.8	8.6	3
9276.0	9.3	1	3.9	217	8.7	8.6	1
9278.0			3.9	214	8.7	8.6	
9280.0	10.6	360	3.9	214	8.7	8.5	4
9282.0	7.0	336	3.9	216	8.7	8.4	4
9284.0	5.5	322	3.9	217	8.7	8.4	4
9286.0	4.6	129	3.9	216	8.6	8.4	4
9288.0	9.0	5	3.9	215	8.7	8.4	4
9290.0	15.0	12	3.9	215	9.0	8.4	4
9292.0	15.8	11	3.9	216	9.0	8.4	4
9294.0	2.5	257	3.9	216	8.9	8.5	2
9296.0	8.0	351	3.9	216	8.8	8.6	2
9298.0	6.8	155	3.9	216	8.8	8.5	4
9300.0			3.9	217	8.8	8.5	
9302.0	11.0	358	3.9	217	9.1	8.6	4
9304.0	5.2	57	3.9	216	10.4	8.8	4
9306.0	9.1	86	3.9	217	11.5	8.9	2
9308.0	7.2	88	3.9	217	11.0	8.9	4
9310.0	5.7	92	3.9	216	10.5	8.8	4
9312.0	6.3	64	3.9	215	11.2	8.8	4
9314.0	4.3	353	3.9	215	12.0	9.1	4
9316.0	6.0	345	3.9	216	12.3	9.5	4
9318.0	9.7	19	3.9	217	13.1	10.1	4
9320.0	12.6	261	3.9	217	14.0	11.2	1
9322.0	10.3	245	3.9	215	13.8	11.4	3
9324.0	14.7	236	3.9	215	12.9	10.3	1
9326.0	2.6	232	3.9	216	11.9	9.4	1
9328.0			4.0	216	11.7	9.2	
9330.0			4.0	216	12.0	9.5	
9332.0	13.2	239	4.0	217	12.4	9.9	1
9334.0	11.3	249	4.0	217	13.6	11.3	1
9336.0			4.0	217	13.9	10.9	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
9338.0	10.4	233	4.0	216	12.5	9.4	3
9340.0	7.3	110	4.0	216	10.3	9.0	1
9342.0	6.1	38	4.0	218	9.3	8.7	3
9344.0	4.2	52	4.0	221	11.1	9.9	3
9346.0	6.4	28	4.0	221	13.5	12.7	1
9348.0			4.0	219	13.9	13.1	
9350.0			4.0	218	11.6	10.6	
9352.0	9.2	63	4.0	218	9.6	8.9	1
9354.0	5.6	178	4.0	218	9.5	8.9	3
9356.0	3.8	40	4.0	219	9.3	8.8	1
9358.0	3.0	12	4.0	219	9.4	8.8	1

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST #4
11262.0	2.6	7	3.3	198	8.2	8.2	4
11264.0	8.1	245	3.2	193	8.3	8.2	4
11266.0	7.1	299	3.3	192	8.2	8.2	4
11268.0	8.7	304	3.2	193	8.1	8.1	4
11270.0	7.8	326	3.1	191	8.1	8.1	4
11272.0	7.9	306	3.2	190	8.2	8.2	4
11274.0	6.7	24	3.1	190	8.3	8.3	2
11276.0	7.8	345	3.1	191	8.3	8.3	2
11278.0	10.8	247	3.2	192	8.4	8.3	2
11280.0	6.1	216	3.1	194	8.4	8.3	2
11282.0	7.0	348	3.1	194	8.3	8.2	4
11284.0	5.2	337	3.1	195	8.3	8.3	4
11286.0	4.9	311	3.1	198	8.4	8.4	4
11288.0	4.7	225	3.0	201	8.3	8.3	4
11290.0	3.4	213	3.1	201	8.2	8.2	4
11292.0	1.5	185	3.1	198	8.2	8.2	2
11294.0	3.8	189	3.0	197	8.2	8.1	2
11296.0	9.8	216	2.9	194	8.1	8.0	3
11298.0	9.0	207	3.1	196	8.1	8.1	3
11300.0	9.4	198	3.1	195	8.1	8.1	3
11302.0	4.0	182	3.1	189	8.1	8.0	3
11304.0	5.3	106	3.1	186	8.2	8.0	3
11306.0			3.1	184	8.2	8.0	
11308.0	7.2	194	3.2	185	8.2	8.1	1
11310.0	2.3	161	3.1	188	8.3	8.2	1
11312.0	6.9	246	3.0	190	8.3	8.3	1
11314.0	3.8	16	2.9	193	8.3	8.3	1
11316.0	2.8	23	2.9	196	8.3	8.3	1
11318.0	5.3	77	2.8	199	8.3	8.3	4
11320.0	7.9	61	2.9	201	8.2	8.3	4
11322.0	9.7	57	2.9	202	8.2	8.1	4
11324.0	5.9	44	3.0	200	8.1	8.1	2
11326.0	4.8	59	3.1	198	8.1	8.1	4
11328.0	3.6	3	3.0	195	8.2	8.1	4
11330.0	5.2	319	3.1	193	8.3	8.3	4
11332.0	4.8	346	3.1	193	8.4	8.4	4
11334.0	7.7	11	3.1	192	8.4	8.4	4
11336.0	7.6	353	3.1	190	8.5	8.5	4
11338.0	3.6	345	3.1	186	8.4	8.4	4
11340.0	2.6	249	3.0	185	8.2	8.3	4
11342.0	3.1	62	3.0	186	8.3	8.3	4
11344.0	6.0	24	3.0	188	8.4	8.4	4
11346.0	0.7	277	3.0	190	8.3	8.3	4
11348.0	14.6	31	3.0	193	8.3	8.3	2
11350.0	12.7	4	3.0	196	8.3	8.3	4

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
11352.0	7.1	340	3.1	199	8.2	8.2	4
11354.0	1.2	360	3.0	201	8.1	8.1	4
11356.0	7.2	113	3.1	201	8.2	8.2	4
11358.0	5.6	74	3.0	201	8.3	8.3	4
11360.0	3.6	77	3.0	199	8.3	8.3	4
11362.0	0.8	201	3.1	197	8.4	8.3	4
11364.0	0.7	165	3.1	196	8.3	8.2	4
11366.0	7.1	126	3.1	194	8.2	8.2	4
11368.0	2.7	97	3.1	194	8.1	8.1	2
11370.0	4.6	23	3.1	191	8.1	8.2	4
11372.0	6.7	338	3.0	188	8.1	8.1	4
11374.0	13.8	5	3.0	188	8.1	8.1	4
11376.0	7.8	351	2.9	188	8.1	8.0	4
11378.0	6.1	347	2.9	190	8.1	8.0	4
11380.0			2.8	192	8.1	8.1	
11382.0	6.8	344	3.0	195	8.2	8.1	2
11384.0	11.0	2	3.1	198	8.2	8.1	2
11386.0	5.3	336	3.0	200	8.0	8.1	4
11388.0	10.0	332	3.0	202	8.0	8.1	2
11390.0	10.2	359	3.1	203	8.0	8.0	4
11392.0	11.0	347	3.2	202	8.0	8.0	4
11394.0	6.9	36	3.2	199	8.0	8.0	4
11396.0	4.8	23	3.2	196	8.1	8.1	4
11398.0	1.7	24	3.3	195	8.2	8.2	4
11400.0	5.0	96	3.2	194	8.2	8.2	4
11402.0	12.4	167	3.2	194	8.1	8.1	4
11404.0	14.0	172	3.2	192	8.1	8.1	2
11406.0	2.2	296	3.2	190	8.2	8.2	4
11408.0	2.4	226	3.3	193	8.3	8.2	2
11410.0	3.3	344	3.3	194	8.4	8.2	2
11412.0	4.0	192	3.3	194	8.3	8.2	4
11414.0	3.5	163	3.3	196	8.2	8.1	4
11416.0	1.2	119	3.3	197	8.1	8.1	4
11418.0	6.7	12	3.2	198	8.1	8.1	2
11420.0	8.1	79	3.2	200	8.1	8.1	2
11422.0	1.4	110	3.2	203	8.1	8.1	4
11424.0	3.5	113	3.3	203	8.1	8.1	4
11426.0	4.6	71	3.3	203	8.1	8.1	4
11428.0	3.4	32	3.4	201	8.1	8.1	4
11430.0	3.2	19	3.3	197	8.1	8.1	2
11432.0	5.7	225	3.3	195	8.1	8.0	2
11434.0	4.1	145	3.4	194	8.1	8.0	4
11436.0	3.3	116	3.3	195	8.1	8.0	4
11438.0	9.0	6	3.3	192	8.1	8.1	4
11440.0	7.0	15	3.3	189	8.1	8.1	4

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	GOAL. INDEX DEST =4
11442.0	8.3	23	3.2	190	8.1	8.1	4
11444.0	12.6	4	3.2	190	8.1	8.0	4
11446.0	11.9	22	3.2	191	8.1	8.0	2
11448.0	10.8	352	3.3	193	8.1	8.0	2
11450.0	7.7	345	3.3	196	8.1	8.1	2
11452.0	6.6	14	3.2	196	8.2	8.2	2
11454.0			3.2	197	8.2	8.2	
11456.0	11.0	12	3.3	200	8.2	8.2	4
11458.0	9.3	3	3.3	202	8.2	8.1	4
11460.0	3.4	315	3.4	201	8.1	8.1	2
11462.0	8.9	48	3.4	201	8.1	8.1	2
11464.0	10.1	65	3.4	199	8.1	8.1	2
11466.0	5.9	16	3.4	197	8.2	8.2	2
11468.0	7.5	46	3.4	194	8.2	8.2	4
11470.0	12.3	32	3.5	194	8.2	8.2	4
11472.0	12.8	63	3.5	194	8.2	8.2	4
11474.0	12.7	47	3.5	192	8.2	8.2	4
11476.0	11.3	360	3.4	189	8.2	8.2	4
11478.0	8.4	342	3.4	185	8.2	8.2	4
11480.0	1.9	56	3.5	185	8.2	8.2	4
11482.0	2.4	16	3.4	187	8.3	8.3	4
11484.0	6.3	4	3.6	189	8.3	8.3	4
11486.0	5.2	16	3.8	191	8.4	8.4	4
11488.0	6.5	54	3.7	193	8.4	8.2	4
11490.0	6.3	31	3.6	193	8.2	8.1	4
11492.0	3.5	86	3.6	195	8.2	8.2	4
11494.0	3.8	40	3.7	196	8.3	8.2	4
11496.0	4.4	35	3.7	199	8.3	8.2	4
11498.0	4.7	349	3.7	204	8.3	8.3	4
11500.0	4.2	318	3.8	202	8.2	8.3	2
11502.0	1.0	123	3.8	200	8.2	8.2	4
11504.0	3.3	100	3.8	196	8.1	8.1	4
11506.0	12.4	60	3.8	195	8.1	8.1	4
11508.0	5.1	185	3.8	193	8.2	8.1	4
11510.0	5.3	172	3.8	193	8.2	8.1	4
11512.0	4.0	115	3.8	193	8.2	8.1	4
11514.0	6.5	28	3.9	192	8.1	8.1	4
11516.0	7.1	38	4.0	190	8.1	8.1	4

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* M.P.L. *
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COMPANY EXXON COMPANY, U.S.A.

WELL #1 WILKIN RIDGE UNIT

FIELD WILDCAT

COUNTY DUCHESNE

STATE UTAH

DATE AUGUST 30, 1975 JOB #10066,10463

COMPUTED AT:- ROCKY MOUNTAIN COMPUTING CENTER

****
MECHANICAL PROPERTIES LOG
THIS JOB IS LISTED FROM TOP TO BOTTOM
THIS IS A 01 FOOT LISTING

Schlumberger

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*    M.P.L.     *
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* SCHLUMBERGER *
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MECHANICAL PROPERTIES LOG
THIS JOB IS LISTED FROM TOP TO BOTTOM
THIS IS A 01 FOOT LISTING

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DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10000.0	14.45	2.81	0.19	7.133	0.269	0.150	0.45	0.65	0.24	0.150	0.72
10001.0	15.92	2.95	0.19	7.486	0.269	0.150	0.38	0.63	0.26	0.150	0.71
10003.0	13.81	2.74	0.20	6.957	0.270	0.107	0.74	0.79	0.00	0.106	0.72
10004.0	15.49	2.89	0.19	7.355	0.271	0.120	0.54	0.66	0.00	0.117	0.72
10005.0	18.90	3.21	0.17	8.157	0.269	0.150	0.26	0.60	0.28	0.150	0.70
10006.0	15.27	2.89	0.19	7.332	0.269	0.150	0.41	0.61	0.27	0.150	0.71
10011.0	19.46	3.26	0.17	8.278	0.269	0.150	0.24	0.75	0.18	0.150	0.70
10014.0	14.25	2.79	0.20	7.084	0.269	0.150	0.46	0.86	0.00	0.150	0.72
10015.0	15.27	2.89	0.19	7.332	0.269	0.150	0.41	0.80	0.10	0.150	0.71
10016.0	12.92	2.65	0.20	6.727	0.270	0.144	0.56	0.54	0.00	0.143	0.73
10017.0	15.96	2.91	0.18	7.425	0.274	0.069	1.00	1.00	0.00	0.066	0.73
10018.0	13.52	2.18	0.16	5.852	0.343	0.079	1.00	1.00	0.00	0.032	0.95
10019.0	16.73	2.44	0.15	6.546	0.341	0.058	1.00	1.00	0.00	0.024	0.95
10020.0	17.89	2.65	0.15	7.021	0.327	0.053	1.00	1.00	0.00	0.028	0.92
10021.0	24.74	3.67	0.15	9.387	0.269	0.038	0.71	1.00	0.00	0.038	0.70
10022.0	10.38	2.04	0.20	5.406	0.322	0.111	1.00	0.73	0.00	0.063	0.90
10023.0	15.66	2.78	0.18	7.158	0.288	0.070	1.00	1.00	0.00	0.059	0.78
10024.0	17.19	2.57	0.15	6.839	0.329	0.057	1.00	1.00	0.00	0.029	0.93
10025.0	7.13	1.49	0.21	4.045	0.359	0.150	1.00	0.68	0.00	0.040	0.95
10026.0	9.39	1.99	0.21	5.237	0.315	0.123	1.00	0.76	0.00	0.077	0.88
10027.0	12.98	2.66	0.21	6.756	0.269	0.091	0.97	0.98	0.00	0.091	0.72
10028.0	10.89	2.43	0.22	6.176	0.270	0.128	0.81	0.63	0.00	0.126	0.73
10029.0	10.15	2.36	0.23	5.979	0.269	0.150	0.72	0.53	0.00	0.150	0.73
10030.0	21.93	3.46	0.16	8.788	0.269	0.150	0.16	0.71	0.15	0.150	0.70
10031.0	11.24	2.48	0.22	6.289	0.269	0.150	0.64	0.66	0.24	0.150	0.73
10034.0	16.41	2.97	0.18	7.565	0.272	0.132	0.43	0.62	0.17	0.129	0.72
10035.0	18.84	3.06	0.16	7.884	0.286	0.052	1.00	0.94	0.00	0.045	0.76
10036.0	23.54	3.59	0.15	9.101	0.269	0.040	0.79	1.00	0.00	0.040	0.70
10037.0	24.04	3.61	0.15	9.180	0.270	0.083	0.29	1.00	0.00	0.082	0.70
10038.0	17.33	3.08	0.18	7.811	0.269	0.150	0.32	0.64	0.13	0.150	0.71
10039.0	14.25	2.79	0.20	7.084	0.269	0.150	0.46	0.63	0.21	0.150	0.72
10041.0	14.19	2.77	0.20	7.050	0.270	0.128	0.57	0.67	0.00	0.126	0.72
10042.0	18.76	2.75	0.15	7.275	0.322	0.049	1.00	1.00	0.00	0.028	0.90
10043.0	20.59	3.01	0.15	7.870	0.308	0.042	1.00	1.00	0.00	0.029	0.84
10044.0	18.65	2.86	0.15	7.489	0.309	0.052	1.00	1.00	0.00	0.035	0.84
10045.0	16.29	2.50	0.15	6.657	0.329	0.062	1.00	1.00	0.00	0.032	0.93
10046.0	16.11	2.70	0.17	7.045	0.303	0.066	1.00	1.00	0.00	0.048	0.83
10047.0	16.95	3.04	0.18	7.725	0.269	0.071	0.87	0.96	0.00	0.071	0.71
10048.0	11.67	2.52	0.22	6.402	0.269	0.119	0.81	0.58	0.00	0.118	0.73
10049.0	11.53	2.51	0.22	6.371	0.269	0.150	0.62	0.47	0.04	0.150	0.73
10060.0	17.08	3.06	0.18	7.755	0.269	0.150	0.33	0.69	0.17	0.150	0.71
10061.0	16.14	2.97	0.18	7.539	0.269	0.150	0.37	0.72	0.19	0.150	0.71

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10068.0	11.09	2.46	0.22	6.249	0.269	0.150	0.65	0.90	0.07	0.150	0.73
10069.0	15.22	2.88	0.19	7.307	0.270	0.093	0.76	0.97	0.00	0.092	0.72
10071.0	13.60	2.72	0.20	6.905	0.270	0.111	0.72	0.74	0.00	0.110	0.72
10072.0	12.66	2.55	0.20	6.536	0.280	0.091	1.00	1.00	0.00	0.083	0.76
10073.0	12.12	2.57	0.21	6.532	0.269	0.100	0.95	0.98	0.00	0.100	0.73
10074.0	10.05	2.28	0.23	5.843	0.279	0.115	1.00	0.84	0.00	0.106	0.76
10075.0	11.29	2.48	0.22	6.288	0.270	0.108	0.95	0.88	0.00	0.107	0.73
10076.0	12.28	2.58	0.21	6.562	0.270	0.095	0.99	1.00	0.00	0.094	0.73
10077.0	12.80	2.64	0.21	6.701	0.270	0.097	0.92	0.95	0.00	0.096	0.73
10078.0	11.19	2.47	0.22	6.262	0.270	0.126	0.80	0.68	0.20	0.124	0.73
10081.0	12.05	2.56	0.21	6.501	0.270	0.126	0.73	0.68	0.14	0.125	0.73
10082.0	12.95	2.65	0.20	6.738	0.270	0.091	0.98	0.93	0.00	0.090	0.73
10083.0	12.22	2.58	0.21	6.550	0.270	0.097	0.98	0.85	0.00	0.096	0.73
10084.0	12.19	2.57	0.21	6.536	0.270	0.096	0.99	0.85	0.00	0.095	0.73
10085.0	13.37	2.66	0.20	6.782	0.275	0.086	1.00	0.95	0.00	0.082	0.74
10086.0	12.90	2.46	0.19	6.384	0.297	0.089	1.00	0.95	0.00	0.069	0.81
10087.0	11.69	2.32	0.20	6.088	0.301	0.099	1.00	0.83	0.00	0.074	0.83
10088.0	12.90	2.41	0.19	6.282	0.305	0.089	1.00	1.00	0.00	0.063	0.84
10089.0	13.61	2.70	0.20	6.871	0.273	0.084	1.00	1.00	0.00	0.081	0.73
10090.0	13.75	2.74	0.20	6.952	0.269	0.089	0.93	0.96	0.00	0.088	0.72
10091.0	13.17	2.68	0.20	6.803	0.269	0.087	1.00	0.99	0.00	0.087	0.72
10092.0	13.12	2.66	0.20	6.768	0.271	0.088	1.00	1.00	0.00	0.086	0.73
10093.0	13.03	2.61	0.20	6.672	0.277	0.089	1.00	1.00	0.00	0.083	0.75
10094.0	12.99	2.59	0.20	6.637	0.279	0.089	1.00	1.00	0.00	0.082	0.75
10096.0	11.47	2.43	0.21	6.216	0.281	0.102	1.00	0.94	0.00	0.092	0.76
10097.0	11.69	2.52	0.22	6.405	0.270	0.099	1.00	1.00	0.00	0.099	0.73
10100.0	11.09	2.46	0.22	6.247	0.269	0.120	0.85	0.78	0.00	0.120	0.73
10101.0	11.24	2.38	0.21	6.108	0.285	0.104	1.00	0.93	0.00	0.090	0.78
10102.0	11.68	2.42	0.21	6.216	0.285	0.100	1.00	0.89	0.00	0.086	0.78
10103.0	12.08	2.42	0.20	6.244	0.292	0.096	1.00	0.80	0.00	0.078	0.80
10104.0	11.69	2.23	0.19	5.862	0.314	0.099	1.00	0.74	0.00	0.063	0.87
10105.0	13.41	2.39	0.18	6.273	0.314	0.084	1.00	1.00	0.00	0.053	0.87
10106.0	16.44	2.99	0.18	7.602	0.269	0.074	0.87	1.00	0.00	0.074	0.71
10107.0	7.27	1.99	0.27	5.043	0.270	0.150	1.00	0.68	0.00	0.148	0.75
10108.0	11.68	2.53	0.22	6.412	0.269	0.150	0.61	0.73	0.00	0.150	0.73
10111.0	13.32	2.70	0.20	6.849	0.269	0.150	0.51	0.67	0.04	0.150	0.72
10112.0	12.79	2.64	0.21	6.705	0.269	0.109	0.80	0.79	0.00	0.109	0.72
10113.0	13.61	2.68	0.20	6.842	0.275	0.084	1.00	0.92	0.00	0.080	0.74
10114.0	12.48	2.50	0.20	6.424	0.286	0.093	1.00	0.92	0.00	0.080	0.78
10115.0	12.73	2.47	0.19	6.382	0.294	0.091	1.00	1.00	0.00	0.072	0.80
10116.0	12.92	2.39	0.18	6.242	0.308	0.089	1.00	1.00	0.00	0.061	0.85
10117.0	13.77	2.43	0.18	6.386	0.312	0.082	1.00	1.00	0.00	0.053	0.86

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DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10118.0	14.31	2.55	0.18	6.650	0.302	0.078	1.00	1.00	0.00	0.057	0.83
10119.0	12.92	2.44	0.19	6.344	0.300	0.089	1.00	1.00	0.00	0.066	0.82
10120.0	13.07	2.54	0.19	6.547	0.288	0.088	1.00	0.95	0.00	0.075	0.78
10121.0	13.30	2.57	0.19	6.612	0.287	0.086	1.00	0.95	0.00	0.073	0.78
10122.0	14.14	2.57	0.18	6.674	0.298	0.080	1.00	1.00	0.00	0.061	0.81
10123.0	14.52	2.82	0.19	7.148	0.269	0.084	0.92	1.00	0.00	0.084	0.72
10124.0	9.76	2.30	0.24	5.852	0.270	0.137	0.84	0.65	0.00	0.136	0.74
10125.0	9.90	2.33	0.23	5.985	0.269	0.150	0.74	0.57	0.00	0.150	0.74
10126.0	11.24	2.48	0.22	6.289	0.269	0.150	0.64	0.57	0.00	0.150	0.73
10127.0	14.55	2.82	0.19	7.149	0.269	0.112	0.65	0.69	0.00	0.111	0.72
10128.0	17.31	2.99	0.17	7.651	0.280	0.061	1.00	0.99	0.00	0.055	0.74
10129.0	15.26	2.86	0.19	7.283	0.272	0.073	1.00	0.75	0.00	0.071	0.73
10130.0	17.50	3.08	0.18	7.832	0.270	0.103	0.52	0.62	0.00	0.102	0.71
10131.0	12.30	2.59	0.21	6.582	0.269	0.150	0.57	0.58	0.00	0.150	0.73
10149.0	10.15	2.36	0.23	5.979	0.269	0.150	0.72	0.51	0.13	0.150	0.73
10150.0	18.36	3.17	0.17	8.039	0.269	0.150	0.28	0.35	0.00	0.150	0.71
10158.0	7.51	1.92	0.26	4.958	0.288	0.148	1.00	0.81	0.00	0.124	0.80
10159.0	7.39	1.85	0.25	4.801	0.300	0.150	1.00	0.69	0.00	0.112	0.84
10160.0	7.31	1.96	0.27	4.994	0.277	0.150	1.00	0.57	0.00	0.140	0.77
10161.0	10.23	2.30	0.22	5.883	0.280	0.114	1.00	0.82	0.00	0.104	0.77
10162.0	19.86	3.27	0.16	8.326	0.271	0.091	0.46	0.97	0.00	0.090	0.71
10163.0	19.75	3.29	0.17	8.339	0.269	0.150	0.23	0.66	0.24	0.150	0.70
10164.0	16.37	2.99	0.18	7.592	0.269	0.150	0.36	0.69	0.22	0.150	0.71
10174.0	13.76	2.73	0.20	6.934	0.271	0.137	0.55	0.66	0.00	0.134	0.73
10175.0	15.47	2.90	0.19	7.368	0.270	0.080	0.88	1.00	0.00	0.079	0.72
10176.0	14.89	2.83	0.19	7.203	0.272	0.150	0.43	0.58	0.06	0.147	0.72
10177.0	11.68	2.53	0.22	6.412	0.269	0.150	0.61	0.61	0.14	0.150	0.73
10179.0	13.87	2.75	0.20	6.989	0.269	0.150	0.48	0.74	0.00	0.150	0.72
10180.0	10.03	2.34	0.23	5.941	0.269	0.150	0.73	0.70	0.00	0.150	0.73
10184.0	14.65	2.83	0.19	7.182	0.269	0.150	0.44	0.71	0.00	0.150	0.72
10189.0	17.33	3.08	0.18	7.811	0.269	0.150	0.32	0.87	0.09	0.150	0.71
10190.0	16.37	2.99	0.18	7.592	0.269	0.150	0.36	0.70	0.21	0.150	0.71
10205.0	13.32	2.70	0.20	6.849	0.269	0.150	0.51	0.58	0.08	0.150	0.72
10206.0	13.37	2.63	0.20	6.735	0.279	0.086	1.00	1.00	0.00	0.079	0.75
10207.0	12.65	2.41	0.19	6.261	0.302	0.091	1.00	1.00	0.00	0.067	0.83
10208.0	12.76	2.44	0.19	6.334	0.298	0.090	1.00	1.00	0.00	0.069	0.82
10209.0	12.40	2.50	0.20	6.424	0.284	0.094	1.00	1.00	0.00	0.082	0.77
10210.0	12.05	2.43	0.20	6.271	0.289	0.097	1.00	1.00	0.00	0.081	0.79
10211.0	12.71	2.59	0.20	6.605	0.276	0.091	1.00	1.00	0.00	0.086	0.75
10212.0	12.30	2.47	0.20	6.355	0.288	0.094	1.00	1.00	0.00	0.080	0.78
10213.0	12.29	2.42	0.20	6.266	0.294	0.094	1.00	1.00	0.00	0.075	0.80

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS SATURATION	EFF POR P-E	FRAC GRAD FPG
10214.0	12.75	2.52	0.20	6.491	0.286	0.091	1.00	1.00	0.00	0.078	0.78
10215.0	14.98	2.86	0.19	7.295	0.269	0.112	0.62	0.85	0.00	0.111	0.72
10216.0	13.87	2.75	0.20	6.989	0.269	0.150	0.48	0.72	0.20	0.150	0.72
10217.0	12.97	2.66	0.21	6.758	0.269	0.150	0.53	0.75	0.18	0.150	0.72
10221.0	17.08	3.06	0.18	7.755	0.269	0.150	0.33	0.72	0.20	0.150	0.71
10222.0	16.37	2.99	0.18	7.592	0.269	0.150	0.36	0.66	0.22	0.150	0.71
10237.0	14.45	2.61	0.18	6.758	0.297	0.078	1.00	1.00	0.00	0.060	0.81
10238.0	13.80	2.51	0.18	6.526	0.303	0.082	1.00	1.00	0.00	0.060	0.83
10239.0	13.26	2.49	0.19	6.459	0.298	0.086	1.00	1.00	0.00	0.066	0.81
10240.0	13.71	2.71	0.20	6.986	0.272	0.083	1.00	1.00	0.00	0.081	0.73
10241.0	14.20	2.67	0.19	6.869	0.284	0.080	1.00	1.00	0.00	0.070	0.77
10242.0	14.29	2.65	0.19	6.828	0.289	0.079	1.00	1.00	0.00	0.066	0.78
10243.0	13.79	2.62	0.19	6.742	0.287	0.083	1.00	1.00	0.00	0.071	0.78
10244.0	13.71	2.70	0.20	6.887	0.274	0.083	1.00	1.00	0.00	0.080	0.74
10245.0	13.50	2.60	0.19	6.684	0.285	0.085	1.00	1.00	0.00	0.073	0.77
10246.0	13.40	2.41	0.18	6.319	0.311	0.085	1.00	1.00	0.00	0.056	0.86
10247.0	12.32	2.40	0.19	6.231	0.298	0.094	1.00	1.00	0.00	0.072	0.82
10248.0	12.72	2.45	0.19	6.369	0.296	0.091	1.00	0.96	0.00	0.071	0.81
10249.0	13.45	2.59	0.19	6.662	0.286	0.085	1.00	0.98	0.00	0.073	0.78
10250.0	12.05	2.46	0.20	6.313	0.286	0.097	1.00	0.88	0.00	0.083	0.78
10274.0	12.06	2.57	0.21	6.517	0.269	0.131	0.69	0.50	0.17	0.131	0.73
10275.0	13.35	2.70	0.20	6.850	0.269	0.089	0.96	0.68	0.00	0.089	0.72
10276.0	15.78	2.62	0.17	6.865	0.310	0.068	1.00	0.98	0.00	0.045	0.85
10279.0	12.47	2.61	0.21	6.625	0.269	0.123	0.72	0.37	0.44	0.123	0.73
10280.0	14.46	2.81	0.19	7.136	0.269	0.095	0.80	0.46	0.38	0.095	0.72
10281.0	14.85	2.85	0.19	7.232	0.269	0.076	1.00	0.58	0.30	0.076	0.72
10282.0	13.91	2.71	0.19	6.911	0.276	0.082	1.02	0.54	0.32	0.077	0.74
10286.0	9.29	2.25	0.24	5.707	0.270	0.128	0.96	0.52	0.02	0.127	0.74
10287.0	7.33	1.94	0.26	4.963	0.281	0.150	1.00	0.45	0.00	0.135	0.78
10290.0	13.69	2.74	0.20	6.942	0.269	0.150	0.49	0.55	0.00	0.150	0.72
10291.0	16.60	3.01	0.18	7.646	0.269	0.150	0.35	0.64	0.16	0.150	0.71
10300.0	11.38	2.49	0.22	6.330	0.269	0.150	0.63	0.64	0.23	0.150	0.73
10301.0	14.76	2.81	0.19	7.150	0.273	0.076	1.00	1.00	0.00	0.073	0.73
10302.0	10.17	2.18	0.21	5.661	0.298	0.114	1.00	0.81	0.00	0.088	0.82
10303.0	9.40	2.19	0.23	5.615	0.282	0.123	1.00	0.69	0.00	0.110	0.78
10304.0	9.62	2.28	0.24	5.797	0.271	0.120	1.00	0.74	0.05	0.118	0.74
10305.0	9.51	2.28	0.24	5.778	0.270	0.127	0.94	0.65	0.13	0.126	0.74
10306.0	9.83	2.31	0.23	5.870	0.270	0.120	0.97	0.65	0.11	0.119	0.74
10307.0	10.04	2.31	0.23	5.889	0.274	0.115	1.00	0.69	0.09	0.110	0.75
10308.0	10.96	2.44	0.22	6.194	0.271	0.109	0.97	0.72	0.05	0.107	0.74
10309.0	11.43	2.49	0.22	6.333	0.270	0.103	0.99	0.76	0.00	0.102	0.73

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DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10310.0	11.68	2.52	0.22	6.399	0.270	0.100	0.99	0.76	0.01	0.099	0.73
10311.0	12.21	2.58	0.21	6.543	0.270	0.095	1.00	0.81	0.00	0.094	0.73
10312.0	12.35	2.51	0.20	6.437	0.282	0.094	1.00	0.85	0.00	0.084	0.77
10313.0	12.75	2.57	0.20	6.573	0.279	0.091	1.00	0.85	0.00	0.083	0.76
10314.0	13.91	2.75	0.20	6.983	0.270	0.082	1.00	0.90	0.00	0.081	0.72
10315.0	14.01	2.71	0.19	6.987	0.276	0.081	1.00	0.96	0.00	0.076	0.74
10316.0	11.70	2.24	0.19	5.685	0.312	0.099	1.00	0.93	0.00	0.064	0.87
10317.0	8.85	1.90	0.22	5.027	0.320	0.129	1.00	0.60	0.00	0.076	0.90
10318.0	10.35	2.22	0.21	5.754	0.294	0.112	1.00	0.52	0.00	0.089	0.81
10319.0	19.76	3.27	0.17	8.310	0.271	0.101	0.41	0.62	0.00	0.099	0.71
10320.0	20.96	3.39	0.16	8.591	0.269	0.150	0.19	0.53	0.33	0.150	0.70
10321.0	16.14	2.97	0.18	7.539	0.269	0.150	0.37	0.57	0.30	0.150	0.71
10324.0	10.10	2.35	0.23	5.956	0.269	0.149	0.73	0.73	0.00	0.148	0.74
10325.0	11.89	2.35	0.20	6.100	0.299	0.098	1.00	1.00	0.00	0.073	0.82
10326.0	12.80	2.44	0.19	6.342	0.298	0.090	1.00	1.00	0.00	0.068	0.82
10327.0	12.48	2.53	0.20	6.477	0.281	0.093	1.00	0.97	0.00	0.083	0.76
10328.0	11.16	2.35	0.21	6.059	0.287	0.104	1.00	0.90	0.00	0.089	0.78
10329.0	11.54	2.32	0.20	6.031	0.298	0.101	1.00	0.96	0.00	0.077	0.82
10330.0	12.57	2.41	0.19	6.256	0.300	0.092	1.00	1.00	0.00	0.068	0.82
10331.0	13.12	2.57	0.20	6.605	0.284	0.088	1.00	1.00	0.00	0.077	0.77
10332.0	13.41	2.64	0.20	6.742	0.279	0.086	1.00	1.00	0.00	0.078	0.75
10333.0	14.18	2.62	0.18	6.772	0.291	0.080	1.00	1.00	0.00	0.065	0.79
10334.0	15.32	2.64	0.17	6.883	0.302	0.071	1.00	1.00	0.00	0.052	0.83
10335.0	16.64	2.89	0.17	7.433	0.285	0.064	1.00	1.00	0.00	0.056	0.76
10336.0	17.02	2.92	0.17	7.508	0.285	0.062	1.00	1.00	0.00	0.054	0.76
10337.0	17.05	2.84	0.17	7.355	0.296	0.061	1.00	1.00	0.00	0.048	0.80
10338.0	16.79	2.73	0.16	7.143	0.306	0.062	1.00	1.00	0.00	0.043	0.84
10339.0	17.26	2.87	0.17	7.427	0.294	0.060	1.00	1.00	0.00	0.048	0.79
10340.0	17.12	2.98	0.17	7.620	0.279	0.062	1.00	1.00	0.00	0.057	0.74
10341.0	18.38	3.17	0.17	8.039	0.269	0.056	0.99	1.00	0.00	0.056	0.71
10342.0	18.71	2.89	0.15	7.547	0.306	0.052	1.00	1.00	0.00	0.036	0.83
10343.0	18.77	2.93	0.16	7.623	0.302	0.052	1.00	1.00	0.00	0.038	0.82
10344.0	16.55	2.76	0.17	7.173	0.301	0.064	1.00	1.00	0.00	0.047	0.82
10345.0	14.62	2.59	0.18	6.732	0.302	0.076	1.00	1.00	0.00	0.056	0.82
10346.0	13.48	2.55	0.19	6.583	0.293	0.085	1.00	1.00	0.00	0.068	0.80
10347.0	13.44	2.57	0.19	6.622	0.289	0.085	1.00	1.00	0.00	0.071	0.79
10348.0	13.14	2.50	0.19	6.477	0.294	0.087	1.00	1.00	0.00	0.069	0.80
10349.0	13.01	2.50	0.19	6.472	0.292	0.089	1.00	1.00	0.00	0.072	0.80
10350.0	12.94	2.59	0.20	6.616	0.280	0.089	1.00	1.00	0.00	0.081	0.76
10351.0	12.94	2.59	0.20	6.623	0.279	0.089	1.00	1.00	0.00	0.082	0.76
10352.0	13.13	2.64	0.20	6.732	0.274	0.088	1.00	1.00	0.00	0.084	0.74
10353.0	13.76	2.70	0.20	6.884	0.275	0.083	1.00	1.00	0.00	0.079	0.74
10354.0	14.92	2.70	0.18	6.960	0.290	0.075	1.00	1.00	0.00	0.062	0.79
10355.0	15.86	2.71	0.17	7.046	0.299	0.068	1.00	1.00	0.00	0.051	0.81
10356.0	20.39	3.28	0.16	8.369	0.276	0.045	1.00	1.00	0.00	0.043	0.72
10357.0	25.11	3.65	0.15	9.302	0.275	0.026	1.00	1.00	0.00	0.025	0.72
10358.0	22.23	3.07	0.14	8.063	0.315	0.034	1.00	1.00	0.00	0.021	0.87

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10359.0	17.96	2.72	0.15	7.177	0.319	0.054	1.00	1.00	0.00	0.032	0.89
10360.0	15.55	2.54	0.16	6.692	0.318	0.069	1.00	1.00	0.00	0.041	0.88
10361.0	10.06	1.98	0.20	5.250	0.328	0.114	1.00	1.00	0.00	0.059	0.93
10362.0	9.10	2.23	0.25	5.660	0.269	0.133	0.93	0.77	0.00	0.133	0.74
10363.0	12.14	2.58	0.21	6.539	0.269	0.150	0.58	0.72	0.07	0.150	0.73
10372.0	8.06	2.10	0.26	5.327	0.269	0.150	0.91	0.64	0.00	0.150	0.74
10373.0	7.40	1.82	0.25	4.755	0.305	0.150	1.00	0.62	0.00	0.106	0.85
10374.0	9.08	1.83	0.20	4.884	0.336	0.125	1.00	0.92	0.00	0.057	0.95
10375.0	19.59	3.27	0.17	8.301	0.269	0.065	0.73	1.00	0.00	0.064	0.70
10376.0	10.56	2.04	0.19	5.418	0.325	0.109	1.00	0.82	0.00	0.059	0.92
10377.0	14.40	2.51	0.17	6.574	0.309	0.077	1.00	1.00	0.00	0.052	0.85
10378.0	15.21	2.59	0.17	6.780	0.307	0.072	1.00	1.00	0.00	0.049	0.84
10379.0	12.56	2.23	0.18	5.903	0.326	0.090	1.00	1.00	0.00	0.049	0.92
10380.0	11.56	2.17	0.19	5.741	0.320	0.099	1.00	1.00	0.00	0.058	0.90
10381.0	10.26	2.00	0.19	5.307	0.328	0.112	1.00	1.00	0.00	0.058	0.93
10384.0	8.21	2.03	0.25	5.210	0.286	0.138	1.00	0.72	0.00	0.118	0.79
10385.0	11.94	2.31	0.19	6.026	0.306	0.097	1.00	1.00	0.00	0.068	0.85
10386.0	7.30	1.61	0.22	4.308	0.342	0.150	1.00	0.70	0.00	0.061	0.95
10387.0	7.38	1.71	0.23	4.535	0.325	0.150	1.00	0.66	0.00	0.082	0.92
10392.0	20.67	3.36	0.16	8.529	0.269	0.053	0.82	1.00	0.00	0.053	0.70
10393.0	17.75	2.67	0.15	7.071	0.322	0.055	1.00	1.00	0.00	0.031	0.90
10394.0	10.37	1.92	0.18	5.146	0.341	0.109	1.00	1.00	0.00	0.045	0.95
10397.0	7.34	1.65	0.22	4.409	0.335	0.150	1.00	1.00	0.00	0.070	0.95
10398.0	7.38	1.71	0.23	4.533	0.325	0.150	1.00	1.00	0.00	0.082	0.92
10402.0	11.19	2.23	0.20	5.827	0.307	0.104	1.00	0.97	0.00	0.072	0.85
10403.0	10.71	1.86	0.17	5.033	0.355	0.103	1.00	1.00	0.00	0.031	0.95
10404.0	8.33	1.64	0.20	4.437	0.355	0.132	1.00	1.00	0.00	0.040	0.95
10405.0	11.38	2.25	0.20	5.871	0.307	0.102	1.00	1.00	0.00	0.070	0.85
10406.0	10.10	2.14	0.21	5.575	0.303	0.115	1.00	1.00	0.00	0.083	0.84
10411.0	7.40	1.82	0.25	4.742	0.306	0.150	1.00	0.64	0.00	0.105	0.86
10412.0	7.28	1.98	0.27	5.029	0.273	0.150	1.00	0.60	0.00	0.145	0.76
10414.0	10.29	2.36	0.23	6.002	0.270	0.140	0.77	0.52	0.00	0.139	0.74
10415.0	13.26	2.69	0.20	6.830	0.269	0.106	0.79	0.72	0.00	0.106	0.72
10416.0	9.25	2.00	0.22	5.254	0.310	0.124	1.00	0.77	0.00	0.083	0.87
10417.0	7.39	1.72	0.23	4.562	0.322	0.150	1.00	0.70	0.00	0.085	0.91
10418.0	7.40	1.83	0.25	4.779	0.302	0.150	1.00	0.67	0.00	0.109	0.84
10421.0	9.20	2.24	0.24	5.690	0.269	0.150	0.80	0.78	0.00	0.150	0.74
10425.0	14.00	2.67	0.19	6.842	0.283	0.081	1.00	1.00	0.00	0.072	0.76
10426.0	13.95	2.16	0.15	5.823	0.350	0.075	1.00	1.00	0.00	0.026	0.95

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10427.0	18.26	2.78	0.15	7.309	0.315	0.053	1.00	1.00	0.00	0.033	0.87
10428.0	14.07	2.28	0.16	6.089	0.336	0.077	1.00	1.00	0.00	0.035	0.95
10429.0	14.58	2.29	0.16	6.143	0.339	0.072	1.00	1.00	0.00	0.031	0.95
10430.0	14.83	2.34	0.16	6.261	0.335	0.071	1.00	1.00	0.00	0.033	0.95
10431.0	14.00	2.30	0.16	6.138	0.332	0.078	1.00	1.00	0.00	0.038	0.94
10432.0	13.39	2.27	0.17	6.046	0.329	0.083	1.00	1.00	0.00	0.042	0.93
10433.0	9.46	1.87	0.20	4.988	0.336	0.120	1.00	1.00	0.00	0.055	0.95
10436.0	7.30	1.96	0.27	4.998	0.277	0.150	1.00	0.58	0.00	0.140	0.77
10438.0	8.45	2.15	0.25	5.455	0.269	0.150	0.87	0.44	0.00	0.150	0.74
10439.0	14.49	2.80	0.19	7.123	0.270	0.125	0.57	0.45	0.00	0.123	0.72
10440.0	15.43	2.87	0.19	7.302	0.274	0.072	1.00	0.82	0.00	0.069	0.73
10442.0	7.40	1.83	0.25	4.779	0.302	0.150	1.00	0.43	0.00	0.109	0.84
10448.0	12.14	2.58	0.21	6.539	0.269	0.150	0.58	0.82	0.00	0.150	0.73
10450.0	7.30	1.61	0.22	4.311	0.342	0.150	1.00	0.54	0.00	0.061	0.95
10451.0	9.54	1.87	0.20	5.003	0.336	0.119	1.00	0.85	0.00	0.054	0.95
10452.0	10.43	1.97	0.19	5.256	0.335	0.109	1.00	1.00	0.00	0.051	0.95
10453.0	10.83	2.02	0.19	5.380	0.333	0.105	1.00	1.00	0.00	0.051	0.95
10454.0	11.54	2.26	0.20	5.915	0.307	0.101	1.00	0.88	0.00	0.070	0.85
10455.0	11.86	2.54	0.21	6.456	0.269	0.109	0.88	0.64	0.00	0.109	0.73
10456.0	8.15	2.11	0.26	5.358	0.269	0.150	0.90	0.57	0.00	0.150	0.74
10457.0	11.53	2.51	0.22	6.371	0.269	0.150	0.62	0.50	0.00	0.150	0.73
10458.0	11.38	2.49	0.22	6.330	0.269	0.150	0.63	0.59	0.00	0.150	0.73
10461.0	14.06	2.77	0.20	7.036	0.269	0.150	0.47	0.86	0.06	0.150	0.72
10462.0	14.85	2.85	0.19	7.231	0.269	0.150	0.43	0.93	0.05	0.150	0.72
10474.0	12.38	2.44	0.20	6.316	0.292	0.094	1.00	1.00	0.00	0.076	0.80
10475.0	12.15	2.07	0.17	5.548	0.343	0.091	1.00	1.00	0.00	0.037	0.95
10476.0	9.38	1.85	0.20	4.980	0.337	0.121	1.00	0.83	0.00	0.054	0.95
10477.0	15.20	2.88	0.19	7.304	0.270	0.086	0.83	0.91	0.00	0.086	0.72
10478.0	13.45	2.71	0.20	6.871	0.270	0.136	0.57	0.64	0.00	0.135	0.73
10479.0	10.15	2.36	0.23	5.979	0.269	0.150	0.72	0.61	0.00	0.150	0.74
10480.0	8.98	2.22	0.25	5.621	0.269	0.150	0.82	0.76	0.00	0.150	0.74
10484.0	10.28	2.37	0.23	6.016	0.269	0.150	0.71	0.82	0.00	0.150	0.74
10485.0	10.54	2.40	0.23	6.092	0.269	0.150	0.69	0.73	0.08	0.150	0.73
10486.0	12.98	2.66	0.21	6.754	0.269	0.150	0.53	0.68	0.00	0.149	0.73
10487.0	14.65	2.83	0.19	7.182	0.269	0.150	0.44	0.71	0.21	0.150	0.72
10488.0	13.69	2.74	0.20	6.942	0.269	0.150	0.49	0.83	0.12	0.150	0.72
10497.0	8.06	2.10	0.26	5.387	0.269	0.150	0.91	0.70	0.00	0.150	0.74
10498.0	11.05	2.23	0.20	5.826	0.304	0.105	1.00	1.00	0.00	0.075	0.84
10499.0	10.77	2.24	0.21	5.826	0.298	0.108	1.00	1.00	0.00	0.083	0.82

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10505.0	8.71	1.95	0.22	5.115	0.309	0.131	1.00	1.00	0.00	0.089	0.86
10506.0	8.80	1.85	0.21	4.908	0.328	0.129	1.00	1.00	0.00	0.067	0.93
10507.0	10.14	2.05	0.20	5.399	0.318	0.114	1.00	1.00	0.00	0.068	0.89
10508.0	10.30	2.03	0.20	5.375	0.323	0.112	1.00	1.00	0.00	0.062	0.91
10509.0	10.32	2.08	0.20	5.479	0.316	0.112	1.00	1.00	0.00	0.069	0.88
10510.0	10.90	2.21	0.20	5.761	0.306	0.107	1.00	1.00	0.00	0.075	0.85
10511.0	11.54	2.32	0.20	6.025	0.298	0.101	1.00	1.00	0.00	0.077	0.82
10512.0	11.94	2.26	0.19	5.926	0.313	0.097	1.00	1.00	0.00	0.062	0.87
10513.0	13.64	2.43	0.18	6.375	0.310	0.083	1.00	1.00	0.00	0.055	0.86
10514.0	15.41	2.60	0.17	6.810	0.308	0.070	1.00	1.00	0.00	0.048	0.85
10515.0	18.56	3.05	0.16	7.837	0.285	0.054	1.00	1.00	0.00	0.046	0.76
10516.0	15.98	2.95	0.18	7.484	0.270	0.073	0.93	1.00	0.00	0.072	0.72
10517.0	8.53	2.03	0.24	5.252	0.291	0.134	1.00	0.67	0.00	0.109	0.81
10518.0	9.54	2.28	0.24	5.796	0.269	0.150	0.77	0.76	0.00	0.150	0.74
10524.0	7.78	2.06	0.27	5.234	0.269	0.150	0.94	0.77	0.00	0.150	0.75
10525.0	7.27	1.99	0.27	5.043	0.270	0.150	1.00	0.63	0.00	0.148	0.75
10526.0	8.87	2.20	0.25	5.588	0.269	0.150	0.83	0.58	0.00	0.150	0.74
10527.0	11.12	2.32	0.21	5.991	0.292	0.105	1.00	0.74	0.00	0.085	0.80
10529.0	30.97	4.06	0.13	10.336	0.274	0.039	0.12	1.00	0.00	0.038	0.72
10530.0	18.10	2.88	0.16	7.503	0.301	0.055	1.00	1.00	0.00	0.041	0.82
10532.0	16.50	3.00	0.18	7.610	0.270	0.066	0.99	0.92	0.00	0.065	0.72
10533.0	21.41	3.41	0.16	8.665	0.270	0.063	0.60	0.93	0.00	0.063	0.70
10534.0	17.94	3.12	0.17	7.931	0.270	0.061	0.93	0.94	0.00	0.061	0.71
10535.0	16.56	3.00	0.18	7.622	0.270	0.073	0.87	0.78	0.06	0.073	0.72
10536.0	13.56	2.72	0.20	6.906	0.269	0.092	0.91	0.59	0.19	0.092	0.72
10537.0	12.70	2.62	0.21	6.664	0.271	0.096	0.94	0.57	0.20	0.095	0.73
10538.0	12.34	2.60	0.21	6.591	0.269	0.098	0.95	0.55	0.20	0.098	0.73
10539.0	12.58	2.61	0.21	6.634	0.271	0.101	0.90	0.54	0.23	0.099	0.73
10540.0	12.33	2.59	0.21	6.583	0.269	0.099	0.94	0.56	0.18	0.099	0.73
10541.0	12.45	2.61	0.21	6.614	0.269	0.106	0.86	0.52	0.23	0.105	0.73
10542.0	12.27	2.59	0.21	6.568	0.269	0.101	0.93	0.55	0.15	0.100	0.73
10543.0	12.32	2.59	0.21	6.584	0.269	0.098	0.96	0.55	0.09	0.097	0.73
10544.0	13.22	2.68	0.20	6.812	0.270	0.087	1.00	0.91	0.00	0.087	0.73
10545.0	13.90	2.67	0.19	6.833	0.282	0.082	1.00	0.64	0.04	0.073	0.76
10546.0	14.70	2.77	0.19	7.087	0.277	0.077	1.00	0.69	0.00	0.071	0.74
10547.0	15.78	2.90	0.18	7.382	0.274	0.070	1.00	0.88	0.00	0.067	0.73
10548.0	14.63	2.74	0.19	7.013	0.281	0.077	1.00	0.96	0.00	0.069	0.76
10549.0	11.90	2.26	0.19	5.935	0.312	0.097	1.00	0.96	0.00	0.063	0.87
10550.0	10.53	2.11	0.20	5.540	0.315	0.110	1.00	0.91	0.00	0.068	0.88
10551.0	11.03	2.20	0.20	5.755	0.309	0.105	1.00	0.96	0.00	0.071	0.86
10552.0	12.40	2.35	0.19	6.138	0.306	0.093	1.00	1.00	0.00	0.065	0.85
10553.0	14.16	2.36	0.17	6.261	0.326	0.077	1.00	1.00	0.00	0.041	0.92
10554.0	14.75	2.24	0.15	6.029	0.348	0.069	1.00	1.00	0.00	0.025	0.95
10555.0	13.56	2.28	0.17	6.068	0.330	0.081	1.00	1.00	0.00	0.041	0.93

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10556.0	11.37	2.23	0.20	5.840	0.309	0.102	1.00	1.00	0.00	0.069	0.86
10557.0	9.97	2.16	0.22	5.599	0.298	0.116	1.00	0.83	0.00	0.089	0.82
10558.0	11.63	2.43	0.21	6.242	0.282	0.100	1.00	0.88	0.00	0.089	0.77
10559.0	9.17	2.01	0.22	5.248	0.309	0.126	1.00	0.75	0.00	0.085	0.86
10560.0	9.64	2.19	0.23	5.628	0.287	0.120	1.00	0.68	0.00	0.102	0.79
10561.0	9.78	2.31	0.24	5.868	0.269	0.150	0.75	0.58	0.00	0.150	0.74
10562.0	13.87	2.75	0.20	6.989	0.269	0.150	0.48	0.72	0.20	0.150	0.72
10574.0	7.36	1.67	0.23	4.445	0.332	0.150	1.00	0.78	0.00	0.073	0.94
10575.0	7.40	1.80	0.24	4.703	0.310	0.150	1.00	0.54	0.00	0.100	0.87
10576.0	9.42	2.27	0.24	5.760	0.269	0.150	0.78	0.68	0.00	0.150	0.74
10577.0	14.25	2.79	0.20	7.084	0.269	0.150	0.46	0.77	0.16	0.150	0.72
10582.0	11.87	2.54	0.21	6.459	0.269	0.116	0.82	0.66	0.00	0.115	0.73
10583.0	11.53	2.50	0.22	6.360	0.270	0.115	0.86	0.59	0.00	0.114	0.73
10584.0	10.78	2.42	0.22	6.145	0.270	0.124	0.85	0.52	0.00	0.122	0.74
10585.0	10.49	2.38	0.23	6.059	0.270	0.144	0.73	0.47	0.15	0.142	0.74
10586.0	12.80	2.65	0.21	6.713	0.269	0.150	0.54	0.54	0.32	0.150	0.73
10595.0	7.96	1.79	0.22	4.733	0.323	0.141	1.00	1.00	0.00	0.079	0.91
10596.0	11.29	2.01	0.18	5.380	0.341	0.099	1.00	1.00	0.00	0.041	0.95
10597.0	8.70	1.68	0.19	4.545	0.354	0.127	1.00	1.00	0.00	0.039	0.95
10598.0	8.31	1.76	0.21	4.697	0.334	0.135	1.00	1.00	0.00	0.064	0.95
10599.0	11.78	2.24	0.19	5.891	0.313	0.098	1.00	1.00	0.00	0.063	0.87
10600.0	13.54	2.58	0.19	6.642	0.289	0.085	1.00	1.00	0.00	0.070	0.79
10601.0	11.00	2.27	0.21	5.898	0.297	0.106	1.00	0.90	0.00	0.082	0.82
10602.0	10.34	2.21	0.21	5.734	0.296	0.113	1.30	0.84	0.11	0.088	0.82
10603.0	11.04	2.35	0.21	6.050	0.285	0.106	1.00	0.85	0.00	0.092	0.78
10604.0	12.12	2.41	0.20	6.229	0.294	0.096	1.00	1.00	0.00	0.076	0.81
10605.0	16.15	2.78	0.17	7.194	0.294	0.067	1.00	1.00	0.00	0.053	0.79
10606.0	21.31	3.16	0.15	8.204	0.297	0.040	1.00	1.00	0.00	0.031	0.80
10607.0	23.18	3.32	0.14	8.592	0.295	0.032	1.00	1.00	0.00	0.025	0.79
10608.0	23.46	3.48	0.15	8.905	0.280	0.032	1.00	1.00	0.00	0.029	0.74
10609.0	22.92	3.54	0.15	8.979	0.269	0.058	0.55	1.00	0.00	0.058	0.70
10610.0	15.42	2.90	0.19	7.369	0.269	0.130	0.49	0.68	0.11	0.129	0.72
10611.0	12.30	2.59	0.21	6.582	0.269	0.150	0.57	0.69	0.13	0.150	0.73
10615.0	9.90	2.33	0.23	5.905	0.269	0.150	0.74	0.78	0.00	0.150	0.74
10616.0	12.72	2.63	0.21	6.680	0.270	0.109	0.81	1.00	0.00	0.108	0.73
10617.0	10.63	2.41	0.23	6.118	0.269	0.133	0.79	0.78	0.00	0.133	0.73
10618.0	8.97	2.21	0.25	5.616	0.269	0.144	0.86	0.72	0.00	0.144	0.74
10623.0	9.54	2.28	0.24	5.796	0.269	0.150	0.77	0.84	0.00	0.150	0.74
10627.0	13.75	2.74	0.20	6.954	0.269	0.110	0.72	1.00	0.00	0.110	0.72
10628.0	12.48	2.53	0.20	6.484	0.281	0.093	1.00	1.00	0.00	0.084	0.76
10629.0	7.33	1.93	0.26	4.951	0.283	0.150	1.00	0.63	0.00	0.133	0.79
10630.0	8.35	2.14	0.26	5.482	0.269	0.150	0.88	0.66	0.00	0.150	0.74

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10631.0	8.24	1.98	0.24	5.136	0.294	0.138	1.00	0.87	0.00	0.110	0.82
10632.0	10.14	1.95	0.19	5.199	0.333	0.112	1.00	1.00	0.00	0.054	0.95
10633.0	11.56	2.24	0.19	5.879	0.310	0.100	1.00	1.00	0.00	0.067	0.86
10634.0	10.52	2.22	0.21	5.757	0.298	0.111	1.00	0.98	0.00	0.085	0.82
10635.0	10.28	2.23	0.22	5.767	0.291	0.113	1.00	0.92	0.00	0.093	0.80
10636.0	10.27	2.18	0.21	5.659	0.300	0.113	1.00	0.93	0.00	0.084	0.83
10637.0	11.27	2.24	0.20	5.848	0.306	0.103	1.00	0.99	0.00	0.072	0.85
10638.0	13.65	2.48	0.18	6.469	0.304	0.083	1.00	1.00	0.00	0.059	0.84
10639.0	14.01	2.40	0.17	6.329	0.319	0.079	1.00	1.00	0.00	0.047	0.89
10640.0	12.18	2.22	0.18	5.868	0.322	0.094	1.00	1.00	0.00	0.053	0.90
10641.0	11.35	2.25	0.20	5.870	0.306	0.102	1.00	0.92	0.00	0.071	0.85
10642.0	11.37	2.28	0.20	5.943	0.301	0.102	1.00	0.98	0.00	0.076	0.83
10643.0	11.13	2.24	0.20	5.851	0.303	0.104	1.00	1.00	0.00	0.075	0.84
10644.0	10.97	2.22	0.20	5.788	0.305	0.106	1.00	1.00	0.00	0.075	0.85
10645.0	11.06	2.25	0.20	5.851	0.302	0.105	1.00	1.00	0.00	0.077	0.83
10646.0	10.53	2.15	0.20	5.636	0.308	0.110	1.00	1.00	0.00	0.075	0.86
10647.0	10.74	2.12	0.20	5.591	0.316	0.108	1.00	1.00	0.00	0.067	0.88
10648.0	11.37	2.19	0.19	5.764	0.315	0.102	1.00	1.00	0.00	0.064	0.88
10649.0	12.13	2.30	0.19	6.029	0.309	0.095	1.00	1.00	0.00	0.064	0.86
10650.0	12.63	2.31	0.18	6.065	0.315	0.090	1.00	1.00	0.00	0.056	0.88
10651.0	11.34	2.11	0.19	5.594	0.327	0.101	1.00	1.00	0.00	0.054	0.92
10653.0	17.26	3.06	0.18	7.779	0.270	0.068	0.89	1.00	0.00	0.067	0.71
10654.0	17.24	3.06	0.18	7.781	0.269	0.068	0.88	1.00	0.00	0.068	0.71
10655.0	12.63	2.38	0.19	6.217	0.305	0.091	1.00	1.00	0.00	0.065	0.84
10656.0	12.23	2.26	0.18	5.946	0.317	0.094	1.00	1.00	0.00	0.057	0.89
10657.0	13.33	2.39	0.18	6.274	0.313	0.085	1.00	1.00	0.00	0.055	0.87
10658.0	14.48	2.64	0.18	6.826	0.293	0.078	1.00	1.00	0.00	0.063	0.80
10659.0	13.25	2.48	0.19	6.442	0.299	0.086	1.00	1.00	0.00	0.065	0.82
10662.0	20.84	3.36	0.16	8.544	0.270	0.052	0.82	1.00	0.00	0.051	0.70
10664.0	7.95	1.45	0.18	4.006	0.378	0.131	1.00	1.00	0.00	0.015	0.95
10665.0	10.35	1.85	0.18	5.001	0.351	0.107	1.00	1.00	0.00	0.036	0.95
10666.0	13.54	2.43	0.18	6.356	0.310	0.083	1.00	1.00	0.00	0.055	0.86
10667.0	14.32	2.62	0.18	6.778	0.293	0.079	1.00	1.00	0.00	0.063	0.80
10668.0	13.00	2.39	0.18	6.253	0.309	0.088	1.00	1.00	0.00	0.060	0.85
10669.0	12.86	2.42	0.19	6.294	0.303	0.089	1.00	1.00	0.00	0.064	0.83
10670.0	12.42	2.37	0.19	6.169	0.304	0.093	1.00	1.00	0.00	0.066	0.84
10671.0	11.74	2.36	0.20	6.120	0.295	0.099	1.00	1.00	0.00	0.078	0.81
10672.0	12.22	2.52	0.21	6.452	0.278	0.095	1.00	1.00	0.00	0.088	0.75
10673.0	12.26	2.49	0.20	6.388	0.284	0.095	1.00	1.00	0.00	0.083	0.77
10674.0	12.01	2.47	0.21	6.337	0.283	0.097	1.00	1.00	0.00	0.086	0.77
10675.0	11.91	2.52	0.21	6.487	0.273	0.098	1.00	1.00	0.00	0.094	0.74
10676.0	11.72	2.44	0.21	6.259	0.283	0.099	1.00	1.00	0.00	0.088	0.77
10677.0	11.16	2.37	0.21	6.095	0.284	0.104	1.00	1.00	0.00	0.092	0.78
10678.0	11.08	2.37	0.21	6.078	0.283	0.105	1.00	1.00	0.00	0.093	0.78
10679.0	11.11	2.40	0.22	6.143	0.279	0.105	1.00	1.00	0.00	0.096	0.76

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10680.0	11.54	2.48	0.21	6.315	0.274	0.101	1.00	1.00	0.00	0.097	0.75
10681.0	12.26	2.56	0.21	6.526	0.272	0.095	1.00	1.00	0.00	0.092	0.74
10682.0	12.69	2.47	0.20	6.395	0.292	0.091	1.00	1.00	0.00	0.074	0.80
10683.0	12.75	2.43	0.19	6.314	0.299	0.090	1.00	1.00	0.00	0.068	0.82
10684.0	11.05	2.23	0.20	5.810	0.305	0.105	1.00	1.00	0.00	0.074	0.85
10685.0	9.92	2.09	0.21	5.460	0.309	0.117	1.00	1.00	0.00	0.079	0.86
10686.0	13.13	2.62	0.20	6.691	0.278	0.088	1.00	1.00	0.00	0.082	0.75
10687.0	15.47	2.90	0.19	7.367	0.270	0.075	0.95	1.00	0.00	0.074	0.72
10688.0	14.74	2.66	0.18	6.885	0.293	0.076	1.00	1.00	0.00	0.061	0.80
10689.0	14.50	2.67	0.18	6.883	0.289	0.078	1.00	1.00	0.00	0.065	0.78
10690.0	12.57	2.41	0.19	6.266	0.300	0.092	1.00	1.00	0.00	0.069	0.82
10691.0	14.00	2.67	0.19	6.847	0.283	0.081	1.00	1.00	0.00	0.072	0.76
10692.0	14.25	2.68	0.19	6.879	0.285	0.079	1.00	1.00	0.00	0.069	0.77
10694.0	24.18	3.63	0.15	9.212	0.270	0.073	0.34	1.00	0.00	0.072	0.70
10695.0	12.82	2.37	0.18	6.207	0.309	0.089	1.00	1.00	0.00	0.060	0.85
10696.0	31.02	4.07	0.13	10.364	0.273	0.073	0.01	1.00	0.00	0.070	0.71
10697.0	11.56	2.30	0.20	5.983	0.302	0.101	1.00	0.78	0.00	0.074	0.83
10698.0	8.33	1.81	0.22	4.799	0.326	0.136	1.09	0.55	0.30	0.072	0.92
10699.0	14.50	2.81	0.19	7.142	0.269	0.090	0.85	0.82	0.00	0.089	0.72
10700.0	14.29	2.65	0.19	6.828	0.289	0.079	1.00	1.00	0.00	0.066	0.78
10701.0	12.79	2.42	0.19	6.306	0.301	0.090	1.00	1.00	0.00	0.067	0.83
10702.0	16.55	3.00	0.18	7.623	0.270	0.082	0.77	1.00	0.00	0.081	0.72
10703.0	9.53	2.03	0.21	5.320	0.311	0.121	1.10	0.83	0.11	0.079	0.87
10704.0	12.33	2.43	0.20	6.289	0.293	0.094	1.00	1.00	0.00	0.075	0.80
10705.0	12.19	2.38	0.20	6.180	0.299	0.095	1.00	1.00	0.00	0.072	0.82
10706.0	12.37	2.42	0.20	6.277	0.295	0.094	1.00	1.00	0.00	0.074	0.81
10707.0	11.12	2.23	0.20	5.828	0.305	0.104	1.00	1.00	0.00	0.074	0.85
10708.0	18.96	3.21	0.17	8.155	0.270	0.074	0.67	1.00	0.00	0.073	0.71
10709.0	13.16	2.54	0.19	6.548	0.289	0.087	1.00	1.00	0.00	0.073	0.79
10710.0	13.28	2.51	0.19	6.504	0.295	0.086	1.00	1.00	0.00	0.068	0.81
10711.0	12.65	2.48	0.20	6.408	0.290	0.091	1.00	1.00	0.00	0.075	0.79
10712.0	12.70	2.50	0.20	6.442	0.289	0.091	1.00	1.00	0.00	0.076	0.79
10713.0	13.08	2.60	0.20	6.648	0.280	0.088	1.00	1.00	0.00	0.080	0.76
10714.0	13.56	2.66	0.20	6.798	0.278	0.085	1.00	1.00	0.00	0.078	0.75
10715.0	12.99	2.48	0.19	6.425	0.296	0.089	1.00	1.00	0.00	0.069	0.81
10716.0	11.23	2.12	0.19	5.620	0.323	0.102	1.00	1.00	0.00	0.058	0.91
10717.0	10.03	1.92	0.19	5.122	0.337	0.113	1.00	1.00	0.00	0.051	0.95
10718.0	10.42	2.03	0.19	5.380	0.325	0.110	1.00	1.00	0.00	0.060	0.92
10719.0	10.13	2.08	0.21	5.456	0.314	0.114	1.00	1.00	0.00	0.073	0.88
10720.0	13.13	2.59	0.20	6.645	0.281	0.088	1.00	1.00	0.00	0.079	0.76
10721.0	17.52	3.09	0.18	7.849	0.269	0.090	0.62	1.00	0.00	0.089	0.71
10722.0	12.09	2.46	0.20	6.329	0.285	0.096	1.00	1.00	0.00	0.083	0.78
10723.0	13.32	2.63	0.20	6.728	0.278	0.086	1.00	1.00	0.00	0.080	0.75
10724.0	14.30	2.68	0.19	6.881	0.285	0.079	1.00	1.00	0.00	0.068	0.77
10725.0	13.41	2.42	0.18	6.389	0.310	0.085	1.00	1.00	0.00	0.056	0.86
10726.0	13.57	2.45	0.18	6.399	0.308	0.083	1.00	1.00	0.00	0.057	0.85
10727.0	13.71	2.56	0.19	6.618	0.294	0.083	1.00	1.00	0.00	0.066	0.80

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10728.0	12.97	2.45	0.19	6.369	0.300	0.089	1.00	1.00	0.00	0.066	0.82
10729.0	13.23	2.45	0.19	6.381	0.303	0.086	1.00	1.00	0.00	0.062	0.83
10730.0	13.47	2.37	0.18	6.235	0.317	0.083	1.00	1.00	0.00	0.051	0.89
10731.0	12.44	2.22	0.18	5.883	0.325	0.091	1.00	1.00	0.00	0.050	0.92
10732.0	12.71	2.26	0.18	5.972	0.323	0.089	1.00	1.00	0.00	0.050	0.91
10733.0	13.44	2.45	0.18	6.390	0.306	0.085	1.00	1.00	0.00	0.059	0.85
10734.0	12.92	2.43	0.19	6.328	0.302	0.089	1.00	1.00	0.00	0.065	0.83
10735.0	13.60	2.53	0.19	6.596	0.297	0.084	1.00	1.00	0.00	0.065	0.81
10736.0	13.70	2.49	0.18	6.496	0.303	0.083	1.00	1.00	0.00	0.060	0.83
10737.0	15.93	2.72	0.17	7.074	0.298	0.068	1.00	1.00	0.00	0.052	0.81
10738.0	21.60	3.44	0.16	8.719	0.269	0.041	0.99	1.00	0.00	0.041	0.70
10740.0	15.22	2.40	0.16	6.397	0.332	0.069	1.00	1.00	0.00	0.034	0.94
10741.0	11.21	2.01	0.18	5.389	0.339	0.101	1.00	1.00	0.00	0.043	0.95
10742.0	12.01	2.20	0.18	5.810	0.323	0.095	1.00	1.00	0.00	0.053	0.91
10743.0	13.39	2.55	0.19	6.589	0.291	0.086	1.00	1.00	0.00	0.070	0.79
10744.0	12.69	2.41	0.19	6.274	0.301	0.091	1.00	1.00	0.00	0.067	0.83
10745.0	12.75	2.44	0.19	6.330	0.298	0.090	1.00	1.00	0.00	0.069	0.82
10746.0	12.28	2.40	0.20	6.234	0.297	0.094	1.00	1.00	0.00	0.073	0.81
10747.0	12.10	2.37	0.20	6.163	0.299	0.096	1.00	1.00	0.00	0.073	0.82
10748.0	12.01	2.30	0.19	6.015	0.308	0.096	1.00	1.00	0.00	0.065	0.85
10749.0	11.80	2.23	0.19	5.859	0.316	0.098	1.00	1.00	0.00	0.061	0.88
10750.0	12.25	2.27	0.19	5.976	0.315	0.094	1.00	1.00	0.00	0.058	0.88
10751.0	12.45	2.41	0.19	6.257	0.298	0.093	1.00	1.00	0.00	0.071	0.82
10752.0	12.70	2.50	0.20	6.442	0.289	0.091	1.00	1.00	0.00	0.076	0.79
10753.0	12.43	2.38	0.19	6.204	0.302	0.093	1.00	1.00	0.00	0.068	0.83
10754.0	12.78	2.37	0.19	6.198	0.309	0.090	1.00	1.00	0.00	0.061	0.85
10755.0	12.34	2.37	0.19	6.165	0.303	0.094	1.00	1.00	0.00	0.068	0.84
10756.0	11.60	2.24	0.19	5.879	0.310	0.100	1.00	1.00	0.00	0.066	0.86
10757.0	11.23	2.23	0.20	5.824	0.307	0.103	1.00	1.00	0.00	0.071	0.85
10758.0	11.01	2.18	0.20	5.708	0.312	0.105	1.00	1.00	0.00	0.068	0.87
10759.0	11.77	2.24	0.19	5.884	0.313	0.098	1.00	1.00	0.00	0.063	0.87
10760.0	12.98	2.41	0.19	6.285	0.306	0.088	1.00	1.00	0.00	0.062	0.84
10761.0	13.02	2.53	0.19	6.529	0.288	0.089	1.00	1.00	0.00	0.075	0.79
10762.0	12.80	2.55	0.20	6.550	0.282	0.090	1.00	1.00	0.00	0.081	0.77
10763.0	12.37	2.42	0.20	6.262	0.296	0.094	1.00	1.00	0.00	0.073	0.81
10764.0	12.12	2.34	0.19	6.106	0.303	0.095	1.00	1.00	0.00	0.069	0.84
10765.0	12.25	2.36	0.19	6.141	0.303	0.094	1.00	1.00	0.00	0.068	0.84
10766.0	12.24	2.34	0.19	6.118	0.305	0.094	1.00	1.00	0.00	0.067	0.84
10767.0	12.70	2.42	0.19	6.290	0.300	0.091	1.00	1.00	0.00	0.067	0.83
10768.0	12.78	2.41	0.19	6.278	0.303	0.090	1.00	1.00	0.00	0.065	0.83
10769.0	12.55	2.38	0.19	6.213	0.303	0.092	1.00	1.00	0.00	0.066	0.84
10770.0	12.73	2.48	0.19	6.405	0.292	0.091	1.00	1.00	0.00	0.073	0.80
10771.0	12.57	2.55	0.20	6.528	0.279	0.092	1.00	1.00	0.00	0.084	0.76
10772.0	12.48	2.54	0.20	6.506	0.279	0.093	1.00	1.00	0.00	0.085	0.76
10773.0	12.13	2.50	0.21	6.404	0.280	0.096	1.00	1.00	0.00	0.087	0.76
10774.0	11.97	2.46	0.21	6.318	0.283	0.097	1.00	1.00	0.00	0.086	0.77
10775.0	11.55	2.42	0.21	6.219	0.282	0.101	1.00	1.00	0.00	0.090	0.77

Schlumberger

DEPTH FEET	RATIO G/CB 10**12	SHEAR MOD. 10**6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10776.0	11.87	2.39	0.20	6.172	0.293	0.098	1.00	1.00	0.00	0.079	0.80
10777.0	11.77	2.27	0.19	5.945	0.309	0.098	1.00	1.00	0.00	0.066	0.86
10778.0	12.34	2.37	0.19	6.173	0.302	0.094	1.00	1.00	0.00	0.068	0.83
10779.0	12.90	2.47	0.19	6.403	0.296	0.089	1.00	1.00	0.00	0.070	0.81
10780.0	12.62	2.43	0.19	6.300	0.298	0.091	1.00	1.00	0.00	0.070	0.82
10781.0	13.31	2.57	0.19	6.620	0.287	0.086	1.00	1.00	0.00	0.074	0.78
10782.0	13.76	2.56	0.19	6.627	0.294	0.083	1.00	1.00	0.00	0.065	0.80
10783.0	13.06	2.28	0.17	6.045	0.324	0.086	1.00	1.00	0.00	0.048	0.91
10784.0	12.77	2.22	0.17	5.902	0.329	0.088	1.00	1.00	0.00	0.045	0.93
10785.0	13.34	2.43	0.18	6.351	0.307	0.085	1.00	1.00	0.00	0.059	0.85
10786.0	12.91	2.38	0.18	6.233	0.308	0.089	1.00	1.00	0.00	0.060	0.85
10787.0	12.51	2.27	0.18	5.994	0.319	0.091	1.00	1.00	0.00	0.054	0.89
10788.0	13.40	2.41	0.18	6.324	0.310	0.085	1.00	1.00	0.00	0.056	0.86
10789.0	14.68	2.55	0.17	6.673	0.307	0.075	1.00	1.00	0.00	0.052	0.84
10790.0	15.42	2.69	0.17	6.973	0.297	0.071	1.00	1.00	0.00	0.055	0.81
10791.0	14.73	2.60	0.18	6.766	0.301	0.075	1.00	1.00	0.00	0.056	0.82
10792.0	12.52	2.18	0.17	5.813	0.331	0.090	1.00	1.00	0.00	0.044	0.94
10793.0	10.58	1.78	0.17	4.846	0.364	0.102	1.00	1.00	0.00	0.023	0.95
10794.0	11.98	1.96	0.16	5.307	0.355	0.090	1.00	1.00	0.00	0.027	0.95
10795.0	13.75	2.24	0.16	5.994	0.337	0.079	1.00	1.00	0.00	0.035	0.95
10797.0	8.51	1.70	0.20	4.576	0.348	0.131	1.00	1.00	0.00	0.047	0.95
10798.0	7.18	1.51	0.21	4.101	0.356	0.150	1.00	1.00	0.00	0.044	0.95
10799.0	8.80	1.70	0.19	4.593	0.352	0.126	1.00	1.00	0.00	0.041	0.95
10800.0	13.12	2.18	0.17	5.829	0.339	0.083	1.00	1.00	0.00	0.036	0.95
10801.0	15.57	2.38	0.15	6.375	0.337	0.066	1.00	1.00	0.00	0.029	0.95
10802.0	13.15	2.04	0.16	5.538	0.357	0.079	1.00	1.00	0.00	0.023	0.95
10803.0	11.71	1.88	0.16	5.130	0.363	0.091	1.00	1.00	0.00	0.022	0.95
10804.0	12.61	2.03	0.16	5.487	0.353	0.085	1.00	1.00	0.00	0.027	0.95
10805.0	13.87	2.39	0.17	6.300	0.319	0.080	1.00	1.00	0.00	0.047	0.89
10806.0	13.04	2.27	0.17	6.025	0.325	0.086	1.00	1.00	0.00	0.047	0.92
10807.0	9.66	1.75	0.18	4.787	0.356	0.114	1.00	1.00	0.00	0.034	0.95
10808.0	10.65	1.89	0.18	5.101	0.349	0.104	1.00	1.00	0.00	0.037	0.95
10809.0	11.91	2.00	0.17	5.401	0.349	0.092	1.00	1.00	0.00	0.033	0.95
10810.0	14.39	2.25	0.16	6.043	0.343	0.073	1.00	1.00	0.00	0.029	0.95
10811.0	16.53	2.47	0.15	6.597	0.336	0.060	1.00	1.00	0.00	0.027	0.95
10812.0	15.06	2.37	0.16	6.323	0.334	0.070	1.00	1.00	0.00	0.033	0.95
10813.0	14.56	2.50	0.17	6.558	0.312	0.076	1.00	1.00	0.00	0.049	0.87
10814.0	14.15	2.53	0.18	6.605	0.303	0.079	1.00	1.00	0.00	0.058	0.83
10815.0	14.57	2.54	0.17	6.641	0.307	0.076	1.00	1.00	0.00	0.053	0.85
10816.0	14.43	2.37	0.16	6.300	0.327	0.075	1.00	1.00	0.00	0.039	0.93
10817.0	15.56	2.52	0.16	6.655	0.320	0.068	1.00	1.00	0.00	0.040	0.90
10818.0	16.85	2.82	0.17	7.305	0.296	0.062	1.00	1.00	0.00	0.048	0.80
10819.0	14.23	2.33	0.16	6.210	0.330	0.076	1.00	1.00	0.00	0.038	0.94
10820.0	13.64	2.01	0.15	5.496	0.365	0.073	1.00	1.00	0.00	0.016	0.95
10821.0	13.38	1.98	0.15	5.403	0.367	0.075	1.00	1.00	0.00	0.015	0.95
10822.0	13.07	2.09	0.16	5.632	0.350	0.082	1.00	1.00	0.00	0.028	0.95
10823.0	13.11	2.23	0.17	5.929	0.332	0.085	1.00	1.00	0.00	0.041	0.95

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10824.0	12.35	2.23	0.18	5.904	0.322	0.092	1.00	1.00	0.00	0.052	0.91
10825.0	13.01	2.39	0.18	6.262	0.308	0.088	1.00	1.00	0.00	0.060	0.85
10826.0	12.95	2.24	0.17	5.957	0.328	0.086	1.00	1.00	0.00	0.045	0.93
10827.0	11.28	1.94	0.17	5.239	0.350	0.098	1.00	1.00	0.00	0.034	0.95
10828.0	12.54	2.16	0.17	5.759	0.335	0.089	1.00	1.00	0.00	0.041	0.95
10829.0	30.83	4.05	0.13	10.311	0.275	0.043	0.11	1.00	0.00	0.041	0.72
10830.0	13.89	2.33	0.17	6.177	0.327	0.079	1.00	1.00	0.00	0.041	0.93
10831.0	14.06	2.40	0.17	6.335	0.320	0.079	1.00	1.00	0.00	0.046	0.90
10832.0	15.18	2.54	0.17	6.682	0.313	0.071	1.00	1.00	0.00	0.046	0.87
10833.0	14.90	2.38	0.16	6.327	0.332	0.071	1.00	1.00	0.00	0.035	0.94
10834.0	17.42	2.65	0.15	7.005	0.323	0.057	1.00	1.00	0.00	0.032	0.91
10835.0	20.76	3.06	0.15	7.977	0.304	0.042	1.00	1.00	0.00	0.030	0.83
10836.0	19.60	2.51	0.13	6.811	0.354	0.039	1.00	1.00	0.00	0.012	0.95
10837.0	14.94	2.07	0.14	5.676	0.369	0.062	1.00	1.00	0.00	0.012	0.95
10838.0	13.40	2.07	0.15	5.604	0.356	0.078	1.00	1.00	0.00	0.023	0.95
10839.0	14.15	2.28	0.16	6.094	0.336	0.076	1.00	1.00	0.00	0.034	0.95
10840.0	15.19	2.40	0.16	6.401	0.331	0.069	1.00	1.00	0.00	0.034	0.94
10841.0	16.33	2.68	0.16	7.003	0.309	0.065	1.00	1.00	0.00	0.044	0.85
10842.0	15.59	2.70	0.17	7.006	0.298	0.070	1.00	1.00	0.00	0.054	0.81
10843.0	14.81	2.41	0.16	6.403	0.326	0.073	1.00	1.00	0.00	0.039	0.92
10844.0	15.42	2.36	0.15	6.314	0.339	0.066	1.00	1.00	0.00	0.029	0.95
10845.0	15.26	2.33	0.15	6.246	0.341	0.067	1.00	1.00	0.00	0.028	0.95
10846.0	15.37	2.55	0.17	6.695	0.315	0.070	1.00	1.00	0.00	0.044	0.88
10847.0	10.87	1.97	0.18	5.288	0.340	0.104	1.00	0.85	0.00	0.044	0.95
10848.0	13.46	2.31	0.17	6.129	0.324	0.083	1.00	1.00	0.00	0.045	0.91
10849.0	11.97	2.06	0.17	5.530	0.341	0.093	1.00	1.00	0.00	0.038	0.95
10850.0	11.10	1.93	0.17	5.201	0.349	0.100	1.00	1.00	0.00	0.035	0.95
10851.0	14.89	2.61	0.18	6.802	0.301	0.074	1.00	1.00	0.00	0.055	0.82
10852.0	14.66	2.68	0.18	6.918	0.289	0.077	1.00	0.94	0.00	0.064	0.78
10853.0	14.18	2.52	0.18	6.572	0.305	0.079	1.00	0.97	0.00	0.056	0.84
10854.0	13.93	2.35	0.17	6.225	0.325	0.079	1.00	1.00	0.00	0.043	0.92
10855.0	14.64	2.52	0.17	6.605	0.310	0.075	1.00	1.00	0.00	0.050	0.86
10856.0	14.93	2.65	0.18	6.872	0.297	0.074	1.00	1.00	0.00	0.058	0.81
10857.0	14.55	2.52	0.17	6.602	0.309	0.076	1.00	1.00	0.00	0.051	0.86
10858.0	16.17	2.67	0.17	6.987	0.308	0.066	1.00	1.00	0.00	0.045	0.85
10859.0	15.65	2.71	0.17	7.027	0.297	0.070	1.00	1.00	0.00	0.054	0.81
10860.0	15.91	2.75	0.17	7.130	0.294	0.068	1.00	1.00	0.00	0.054	0.80
10861.0	12.14	2.15	0.18	5.716	0.332	0.093	1.00	0.93	0.00	0.046	0.94
10893.0	7.77	1.70	0.22	4.539	0.334	0.143	1.00	0.90	0.00	0.067	0.95
10894.0	8.98	1.86	0.21	4.938	0.330	0.127	1.00	1.00	0.00	0.064	0.94
10895.0	10.58	2.18	0.21	5.682	0.305	0.110	1.00	0.97	0.00	0.078	0.85
10896.0	13.21	2.56	0.19	6.584	0.288	0.087	1.00	1.00	0.00	0.074	0.78
10900.0	15.05	2.27	0.15	6.110	0.346	0.067	1.00	1.00	0.00	0.025	0.95
10901.0	15.22	2.36	0.16	6.316	0.337	0.068	1.00	1.00	0.00	0.031	0.95
10904.0	9.98	1.82	0.18	4.922	0.350	0.112	1.00	0.59	0.02	0.038	0.95

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
10906.0	15.53	2.55	0.16	6.720	0.316	0.069	1.00	0.91	0.00	0.043	0.88
10908.0	15.84	2.75	0.17	7.109	0.295	0.069	1.00	0.87	0.00	0.054	0.80
10909.0	13.53	2.39	0.18	6.277	0.316	0.083	1.00	0.78	0.00	0.052	0.88
10910.0	14.79	2.56	0.17	6.700	0.306	0.075	1.00	0.90	0.00	0.052	0.84
10911.0	13.19	2.37	0.18	6.234	0.313	0.086	1.00	0.78	0.00	0.055	0.87
10912.0	12.99	2.37	0.18	6.221	0.310	0.088	1.00	0.76	0.00	0.058	0.86
10913.0	15.32	2.75	0.18	7.084	0.288	0.072	1.00	0.88	0.00	0.061	0.78
10914.0	16.10	2.86	0.18	7.335	0.283	0.067	1.00	0.94	0.00	0.060	0.76
10915.0	14.34	2.44	0.17	6.428	0.318	0.077	1.00	1.00	0.00	0.046	0.89
10916.0	13.98	2.33	0.17	6.198	0.328	0.078	1.00	1.00	0.00	0.041	0.93
10917.0	14.03	2.41	0.17	6.382	0.318	0.079	1.00	1.00	0.00	0.047	0.89
10918.0	12.22	2.36	0.19	6.152	0.302	0.095	1.00	0.83	0.00	0.069	0.83
10919.0	11.63	2.47	0.21	6.309	0.277	0.100	1.00	0.73	0.00	0.094	0.75
10920.0	11.70	2.50	0.21	6.373	0.273	0.099	1.00	0.74	0.00	0.096	0.74
10921.0	11.68	2.52	0.22	6.401	0.270	0.100	0.99	0.77	0.00	0.100	0.73
10922.0	10.67	2.30	0.22	5.914	0.288	0.109	1.00	0.78	0.00	0.092	0.79
10923.0	10.04	1.98	0.20	5.255	0.327	0.114	1.00	0.96	0.00	0.060	0.93
10924.0	10.65	1.95	0.18	5.282	0.341	0.106	1.00	1.00	0.00	0.044	0.95
10925.0	10.32	1.92	0.19	5.152	0.340	0.110	1.00	1.00	0.00	0.046	0.95
10926.0	12.69	2.15	0.17	5.743	0.338	0.087	1.00	1.00	0.00	0.038	0.95
10927.0	17.80	2.59	0.15	6.903	0.333	0.053	1.00	1.00	0.00	0.026	0.95
10928.0	18.39	2.38	0.13	6.480	0.360	0.044	1.00	1.00	0.00	0.011	0.95
10929.0	16.12	2.22	0.14	6.040	0.361	0.057	1.00	1.00	0.00	0.014	0.95
10930.0	13.12	2.00	0.15	5.441	0.362	0.078	1.00	1.00	0.00	0.019	0.95
10931.0	26.15	3.78	0.14	9.595	0.269	0.023	1.00	1.00	0.00	0.023	0.70
10932.0	16.33	2.50	0.15	6.660	0.330	0.062	1.00	1.00	0.00	0.031	0.94
10933.0	11.70	2.07	0.18	5.537	0.337	0.096	1.00	1.00	0.00	0.043	0.95
10934.0	11.85	2.07	0.17	5.534	0.339	0.094	1.00	1.00	0.00	0.040	0.95
10935.0	12.76	2.26	0.18	5.988	0.323	0.089	1.00	1.00	0.00	0.050	0.91
10936.0	14.08	2.62	0.19	6.761	0.290	0.081	1.00	1.00	0.00	0.066	0.79
10937.0	13.22	2.68	0.20	6.808	0.270	0.087	1.00	1.00	0.00	0.086	0.73
10939.0	8.66	2.18	0.25	5.521	0.269	0.150	0.85	0.71	0.00	0.150	0.74
10940.0	7.39	1.84	0.25	4.796	0.301	0.150	1.00	0.76	0.00	0.111	0.84
10944.0	11.26	1.99	0.18	5.338	0.343	0.099	1.00	1.00	0.00	0.040	0.95
10945.0	14.55	2.41	0.17	6.388	0.323	0.075	1.00	1.00	0.00	0.042	0.91
10946.0	14.33	2.57	0.18	6.685	0.300	0.078	1.00	1.00	0.00	0.059	0.82
10947.0	10.36	2.06	0.20	5.431	0.320	0.111	1.00	0.83	0.00	0.065	0.90
10948.0	9.05	1.93	0.21	5.100	0.318	0.127	1.00	0.88	0.00	0.076	0.90
10949.0	24.06	3.61	0.15	9.167	0.271	0.071	0.36	1.00	0.00	0.069	0.71
10950.0	9.87	2.02	0.20	5.323	0.319	0.117	1.00	0.77	0.00	0.070	0.90
10951.0	10.64	2.13	0.20	5.595	0.313	0.109	1.00	0.71	0.00	0.069	0.88
10952.0	12.68	2.24	0.18	5.928	0.326	0.089	1.00	0.94	0.00	0.048	0.92
10953.0	15.20	2.37	0.16	6.338	0.335	0.069	1.00	1.00	0.00	0.032	0.95
10954.0	16.22	2.61	0.16	6.871	0.316	0.065	1.00	1.00	0.00	0.040	0.88

Schlumberger

DEPTH	RATIO	SHEAR	BULK	YOUNG'S	POIS	TOT		WATER	GAS	EFF	FRAC
	G/CB	MOD.	COMP	MOD.	RATIO	POR	CP	SATURATION		POR	GRAD
FEET	10-12	10-6	10+6		PR	P-Z		SW		P-E	FPG
10955.0	15.89	2.66	0.17	6.949	0.306	0.067	1.00	0.94	0.00	0.047	0.84
10956.0	16.65	2.83	0.17	7.325	0.292	0.064	1.00	0.89	0.00	0.052	0.79
10957.0	17.16	3.06	0.18	7.768	0.269	0.062	1.00	0.82	0.00	0.062	0.71
10958.0	17.82	3.09	0.17	7.863	0.273	0.058	1.00	0.85	0.00	0.056	0.72
10959.0	17.18	2.98	0.17	7.620	0.280	0.061	1.00	0.82	0.00	0.056	0.75
10960.0	15.90	2.92	0.18	7.428	0.273	0.069	1.00	0.73	0.00	0.067	0.73
10961.0	15.00	2.86	0.19	7.265	0.269	0.079	0.94	0.57	0.04	0.079	0.72
10962.0	13.22	2.59	0.20	6.649	0.283	0.087	1.00	0.51	0.05	0.077	0.77
10963.0	14.33	2.78	0.19	7.063	0.272	0.079	1.00	0.53	0.04	0.077	0.73
10964.0	14.43	2.81	0.19	7.124	0.269	0.086	0.90	0.44	0.12	0.086	0.72
10965.0	12.22	2.58	0.21	6.552	0.269	0.101	0.93	0.34	0.05	0.100	0.73
10966.0	11.75	2.48	0.21	6.335	0.277	0.099	1.00	0.33	0.00	0.092	0.76
10967.0	12.91	2.65	0.21	6.734	0.269	0.095	0.93	0.38	0.00	0.095	0.73
10968.0	11.18	2.46	0.22	6.254	0.271	0.115	0.89	0.34	0.10	0.113	0.74
10969.0	11.32	2.48	0.22	6.296	0.270	0.122	0.82	0.33	0.23	0.120	0.74
10970.0	11.12	2.47	0.22	6.257	0.269	0.132	0.76	0.33	0.44	0.132	0.73
10971.0	11.22	2.47	0.22	6.281	0.269	0.125	0.80	0.36	0.39	0.125	0.73
10972.0	11.77	2.52	0.21	6.415	0.271	0.116	0.83	0.40	0.33	0.114	0.74
10973.0	11.78	2.53	0.21	6.426	0.270	0.110	0.88	0.42	0.26	0.109	0.73
10974.0	12.06	2.57	0.21	6.512	0.269	0.108	0.87	0.43	0.19	0.108	0.73
10975.0	11.89	2.54	0.21	6.456	0.270	0.110	0.87	0.43	0.20	0.109	0.73
10976.0	11.82	2.54	0.21	6.449	0.269	0.110	0.88	0.43	0.28	0.110	0.73
10977.0	11.98	2.55	0.21	6.481	0.270	0.111	0.85	0.43	0.29	0.110	0.73
10978.0	12.01	2.55	0.21	6.485	0.270	0.112	0.84	0.41	0.26	0.111	0.73
10979.0	11.95	2.55	0.21	6.467	0.270	0.106	0.90	0.46	0.11	0.105	0.74
10980.0	12.61	2.61	0.21	6.630	0.272	0.092	1.00	0.55	0.00	0.090	0.74
10981.0	12.03	2.32	0.19	6.064	0.305	0.096	1.00	0.51	0.00	0.068	0.84
10982.0	10.93	2.05	0.19	5.449	0.330	0.104	1.00	0.47	0.00	0.053	0.94
10983.0	10.63	2.03	0.19	5.383	0.329	0.108	1.00	0.39	0.00	0.055	0.93
10984.0	12.22	2.47	0.20	6.345	0.287	0.095	1.00	0.44	0.00	0.081	0.78
10985.0	13.12	2.67	0.20	6.784	0.270	0.088	1.00	0.49	0.06	0.087	0.73
10986.0	13.91	2.68	0.19	6.853	0.280	0.082	1.00	0.60	0.00	0.074	0.76
10987.0	14.75	2.68	0.18	6.915	0.291	0.076	1.00	0.73	0.00	0.062	0.79
10988.0	14.47	2.42	0.17	6.391	0.322	0.075	1.00	0.86	0.00	0.043	0.91
10989.0	15.18	2.65	0.17	6.885	0.300	0.073	1.00	0.77	0.00	0.054	0.82
10990.0	16.18	2.90	0.18	7.407	0.279	0.067	1.00	0.77	0.00	0.062	0.75
10991.0	14.71	2.69	0.18	6.938	0.288	0.076	1.00	0.65	0.00	0.064	0.78
10992.0	13.49	2.58	0.19	6.640	0.289	0.085	1.00	0.61	0.00	0.071	0.79
10993.0	14.42	2.71	0.19	6.956	0.282	0.078	1.00	0.62	0.00	0.070	0.76
10994.0	15.22	2.88	0.19	7.311	0.269	0.075	0.97	0.59	0.00	0.075	0.72
10995.0	16.15	2.97	0.18	7.537	0.269	0.073	0.92	0.65	0.00	0.072	0.72
10996.0	14.52	2.63	0.18	6.807	0.295	0.077	1.00	0.84	0.00	0.061	0.80
10997.0	9.71	2.04	0.21	5.352	0.313	0.119	1.00	0.67	0.00	0.077	0.88
10998.0	7.40	1.79	0.24	4.689	0.311	0.150	1.00	0.58	0.00	0.098	0.87
10999.0	7.40	1.74	0.24	4.602	0.319	0.150	1.00	0.67	0.00	0.089	0.90
11000.0	7.94	1.70	0.21	4.555	0.337	0.140	1.00	0.89	0.00	0.063	0.95
11001.0	9.96	2.05	0.21	5.386	0.315	0.116	1.00	0.93	0.00	0.072	0.88
11002.0	7.40	1.83	0.25	4.761	0.304	0.150	1.00	0.59	0.00	0.107	0.85

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11003.0	7.26	1.99	0.27	5.049	0.270	0.150	1.00	0.56	0.00	0.149	0.75
11004.0	9.42	2.27	0.24	5.760	0.269	0.150	0.78	0.58	0.00	0.150	0.74
11005.0	7.37	1.88	0.26	4.868	0.293	0.150	1.00	0.61	0.00	0.121	0.82
11006.0	7.40	1.79	0.24	4.693	0.311	0.150	1.00	0.66	0.00	0.099	0.87
11007.0	7.39	1.84	0.25	4.785	0.302	0.150	1.00	0.45	0.00	0.110	0.84
11008.0	7.36	1.90	0.26	4.901	0.289	0.150	1.00	0.57	0.00	0.125	0.81
11009.0	7.39	1.86	0.25	4.827	0.297	0.150	1.00	0.54	0.00	0.115	0.83
11010.0	7.40	1.81	0.24	4.730	0.307	0.150	1.00	0.52	0.00	0.103	0.86
11011.0	7.40	1.81	0.24	4.733	0.307	0.150	1.00	0.45	0.00	0.104	0.86
11012.0	10.38	2.26	0.22	5.818	0.289	0.112	1.00	0.56	0.00	0.093	0.80
11013.0	14.93	2.86	0.19	7.249	0.269	0.080	0.93	0.73	0.00	0.080	0.72
11014.0	13.68	2.73	0.20	6.935	0.269	0.085	0.98	0.63	0.00	0.085	0.73
11015.0	13.71	2.71	0.20	6.902	0.272	0.083	1.00	0.59	0.00	0.081	0.73
11016.0	14.43	2.81	0.19	7.122	0.269	0.078	1.00	0.60	0.03	0.078	0.72
11017.0	14.65	2.82	0.19	7.162	0.270	0.084	0.90	0.54	0.26	0.083	0.73
11018.0	10.93	2.37	0.22	6.073	0.280	0.107	1.17	0.39	0.42	0.097	0.77
11019.0	10.75	2.35	0.22	6.028	0.280	0.108	1.26	0.39	0.42	0.098	0.77
11020.0	11.30	2.39	0.21	6.137	0.284	0.103	1.13	0.41	0.40	0.091	0.78
11021.0	10.71	2.29	0.21	5.914	0.289	0.109	1.26	0.37	0.43	0.091	0.80
11022.0	13.81	2.74	0.20	6.967	0.269	0.092	0.88	0.41	0.35	0.092	0.73
11023.0	14.34	2.78	0.19	7.078	0.271	0.088	0.88	0.44	0.34	0.087	0.73
11024.0	13.78	2.73	0.20	6.945	0.270	0.084	0.98	0.42	0.28	0.083	0.73
11025.0	17.54	3.10	0.18	7.857	0.269	0.081	0.70	0.43	0.35	0.081	0.71
11026.0	27.97	3.91	0.14	9.923	0.269	0.077	0.13	0.46	0.38	0.077	0.70
11027.0	16.00	2.94	0.18	7.476	0.271	0.079	0.84	0.47	0.15	0.078	0.72
11028.0	12.75	2.43	0.19	6.322	0.299	0.090	1.00	0.42	0.29	0.068	0.82
11029.0	13.96	2.75	0.20	6.983	0.271	0.082	1.00	0.50	0.25	0.080	0.73
11030.0	15.30	2.88	0.19	7.325	0.270	0.084	0.85	0.44	0.29	0.083	0.72
11031.0	14.85	2.84	0.19	7.214	0.270	0.089	0.83	0.43	0.38	0.088	0.72
11032.0	15.15	2.88	0.19	7.303	0.269	0.091	0.78	0.39	0.43	0.091	0.72
11033.0	18.44	3.16	0.17	8.037	0.270	0.079	0.65	0.39	0.41	0.078	0.71
11034.0	15.51	2.91	0.19	7.390	0.269	0.096	0.71	0.32	0.48	0.096	0.72
11035.0	14.18	2.78	0.20	7.066	0.269	0.094	0.83	0.37	0.44	0.094	0.72
11036.0	15.39	2.89	0.19	7.380	0.270	0.079	0.90	0.20	0.33	0.078	0.72
11037.0	16.90	3.02	0.18	7.682	0.271	0.073	0.84	1.00	0.00	0.072	0.72
11038.0	15.70	2.92	0.19	7.419	0.270	0.082	0.84	0.36	0.34	0.081	0.72
11039.0	15.67	2.91	0.19	7.401	0.271	0.085	0.80	0.41	0.40	0.084	0.72
11040.0	16.44	2.98	0.18	7.574	0.271	0.084	0.75	0.46	0.36	0.082	0.72
11041.0	15.92	2.94	0.18	7.471	0.270	0.093	0.70	0.42	0.34	0.092	0.72
11042.0	15.41	2.81	0.18	7.196	0.281	0.072	1.00	0.64	0.00	0.064	0.76
11043.0	17.41	3.05	0.18	7.775	0.273	0.060	1.00	1.00	0.00	0.058	0.72
11044.0	13.77	2.74	0.20	6.989	0.269	0.095	0.86	0.79	0.00	0.094	0.72
11045.0	7.38	1.87	0.25	4.845	0.295	0.150	1.00	0.57	0.00	0.118	0.83
11046.0	8.15	2.11	0.26	5.398	0.269	0.150	0.90	0.60	0.00	0.150	0.75
11047.0	10.15	2.36	0.23	5.979	0.269	0.150	0.72	0.68	0.00	0.150	0.74
11048.0	7.40	1.81	0.24	4.723	0.308	0.150	1.00	0.79	0.00	0.102	0.86
11049.0	7.39	1.86	0.25	4.818	0.298	0.150	1.00	0.77	0.00	0.114	0.83
11050.0	8.66	2.18	0.25	5.521	0.269	0.150	0.85	0.72	0.00	0.150	0.74

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11051.0	9.66	2.30	0.24	5.832	0.269	0.150	0.76	0.71	0.00	0.150	0.74
11052.0	7.78	2.06	0.27	5.234	0.269	0.150	0.94	0.63	0.00	0.150	0.75
11053.0	9.79	2.31	0.24	5.871	0.269	0.123	0.95	0.77	0.00	0.123	0.74
11054.0	8.92	1.90	0.21	5.016	0.322	0.128	1.00	0.79	0.00	0.073	0.91
11055.0	7.92	1.76	0.22	4.664	0.328	0.142	1.00	0.66	0.00	0.074	0.93
11056.0	7.40	1.75	0.24	4.623	0.317	0.150	1.00	0.56	0.00	0.091	0.90
11057.0	7.38	1.87	0.25	4.845	0.295	0.150	1.00	0.52	0.00	0.118	0.83
11058.0	7.29	1.97	0.27	5.022	0.273	0.150	1.00	0.48	0.00	0.144	0.76
11059.0	7.37	1.88	0.26	4.867	0.293	0.150	1.00	0.43	0.00	0.121	0.82
11060.0	11.50	2.50	0.22	6.351	0.270	0.110	0.91	0.58	0.00	0.109	0.74
11061.0	10.99	2.42	0.22	6.158	0.274	0.106	1.00	0.55	0.00	0.101	0.75
11062.0	7.39	1.84	0.25	4.787	0.302	0.150	1.00	0.35	0.00	0.110	0.84
11063.0	7.30	1.96	0.27	4.998	0.277	0.150	1.00	0.40	0.00	0.140	0.77
11064.0	7.79	2.01	0.26	5.143	0.279	0.143	1.00	0.45	0.00	0.131	0.78
11065.0	10.53	2.25	0.21	5.819	0.293	0.111	1.00	0.62	0.00	0.089	0.81
11066.0	14.80	2.76	0.19	7.061	0.281	0.076	1.00	0.85	0.00	0.068	0.76
11067.0	15.50	2.78	0.18	7.142	0.287	0.071	1.00	0.81	0.00	0.061	0.78
11068.0	18.01	3.13	0.17	7.944	0.270	0.063	0.89	0.81	0.00	0.063	0.71
11069.0	17.99	2.99	0.17	7.692	0.287	0.057	1.00	0.87	0.00	0.048	0.77
11070.0	19.16	3.06	0.16	7.888	0.290	0.050	1.00	0.91	0.00	0.042	0.78
11071.0	20.59	3.35	0.16	8.508	0.269	0.048	0.93	0.86	0.00	0.047	0.70
11072.0	18.96	3.20	0.17	8.141	0.271	0.052	1.00	0.87	0.00	0.051	0.71
11073.0	17.03	2.94	0.17	7.552	0.282	0.062	1.00	0.93	0.00	0.055	0.76
11074.0	14.52	2.71	0.19	6.965	0.283	0.078	1.00	0.80	0.00	0.069	0.77
11075.0	12.83	2.38	0.19	6.231	0.307	0.089	1.00	0.73	0.00	0.062	0.85
11076.0	15.51	2.64	0.17	6.886	0.305	0.070	1.00	1.00	0.00	0.050	0.84
11077.0	19.66	3.27	0.17	8.305	0.270	0.054	0.90	1.00	0.00	0.053	0.71
11078.0	19.41	3.25	0.17	8.245	0.270	0.055	0.89	0.79	0.01	0.055	0.71
11079.0	19.18	3.24	0.17	8.212	0.269	0.060	0.84	0.61	0.12	0.059	0.71
11080.0	17.36	3.08	0.18	7.810	0.269	0.066	0.91	0.55	0.19	0.066	0.71
11081.0	16.19	2.97	0.18	7.545	0.269	0.068	0.99	0.61	0.19	0.068	0.72
11082.0	13.24	2.51	0.19	6.505	0.294	0.087	1.35	0.36	0.44	0.069	0.81
11083.0	12.44	2.47	0.20	6.362	0.290	0.093	1.28	0.32	0.48	0.077	0.79
11084.0	19.14	3.24	0.17	8.209	0.269	0.080	0.59	0.39	0.43	0.080	0.71
11085.0	12.86	2.45	0.19	6.367	0.298	0.089	1.27	0.27	0.51	0.069	0.82
11086.0	14.22	2.63	0.18	6.780	0.291	0.079	1.19	0.41	0.40	0.065	0.79
11087.0	13.47	2.69	0.20	6.836	0.273	0.085	1.50	0.52	0.33	0.082	0.74
11088.0	28.95	3.97	0.14	10.076	0.270	0.067	0.12	0.89	0.00	0.066	0.70
11089.0	13.44	2.71	0.20	6.879	0.269	0.098	0.85	0.69	0.04	0.098	0.73
11090.0	12.75	2.58	0.20	6.597	0.277	0.091	1.00	0.88	0.00	0.084	0.75
11091.0	10.51	2.08	0.20	5.487	0.319	0.110	1.00	0.89	0.00	0.065	0.90
11092.0	7.54	1.72	0.23	4.554	0.327	0.147	1.00	0.56	0.00	0.077	0.93
11093.0	7.40	1.75	0.24	4.617	0.318	0.150	1.00	0.49	0.00	0.090	0.90
11094.0	7.46	1.88	0.25	4.864	0.296	0.149	1.00	0.47	0.00	0.116	0.83
11095.0	13.13	2.68	0.20	6.793	0.269	0.104	0.82	0.74	0.00	0.104	0.73
11096.0	12.62	2.33	0.18	6.107	0.312	0.091	1.00	1.00	0.00	0.059	0.87
11097.0	8.43	1.65	0.20	4.471	0.354	0.131	1.00	1.00	0.00	0.040	0.95
11098.0	9.27	1.82	0.20	4.887	0.340	0.122	1.00	1.00	0.00	0.052	0.95

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11099.0	10.09	1.97	0.20	5.241	0.329	0.114	1.00	1.00	0.00	0.058	0.94
11100.0	8.20	1.71	0.21	4.577	0.341	0.136	1.00	1.00	0.00	0.056	0.95
11101.0	7.74	1.68	0.22	4.487	0.338	0.143	1.00	0.83	0.00	0.063	0.95
11102.0	10.66	2.20	0.21	5.741	0.302	0.109	1.00	0.88	0.00	0.080	0.84
11103.0	13.55	2.60	0.19	6.695	0.286	0.085	1.00	0.96	0.00	0.073	0.78
11104.0	16.44	2.85	0.17	7.345	0.288	0.065	1.00	1.00	0.00	0.055	0.78
11105.0	21.73	3.06	0.14	8.032	0.311	0.037	1.00	1.00	0.00	0.024	0.86
11106.0	22.27	2.52	0.11	6.906	0.370	0.022	1.00	1.00	0.00	0.004	0.95
11107.0	22.94	2.63	0.11	7.167	0.363	0.021	1.00	1.00	0.00	0.005	0.95
11108.0	15.38	1.90	0.12	5.295	0.391	0.050	1.00	1.00	0.00	0.001	0.95
11109.0	10.28	1.55	0.15	4.317	0.391	0.095	1.00	1.00	0.00	0.001	0.95
11110.0	11.32	1.78	0.16	4.895	0.371	0.092	1.00	1.00	0.00	0.015	0.95
11115.0	7.39	1.73	0.23	4.580	0.321	0.150	1.00	0.80	0.00	0.087	0.91
11116.0	7.40	1.80	0.24	4.708	0.309	0.150	1.00	0.73	0.00	0.101	0.87
11117.0	7.40	1.80	0.24	4.722	0.308	0.150	1.00	0.61	0.00	0.102	0.87
11118.0	8.49	1.93	0.23	5.048	0.309	0.134	1.00	0.61	0.00	0.091	0.87
11119.0	12.05	2.23	0.18	5.874	0.319	0.095	1.00	1.00	0.00	0.056	0.90
11122.0	7.40	1.81	0.24	4.728	0.307	0.150	1.00	0.63	0.00	0.103	0.86
11123.0	9.72	2.24	0.23	5.730	0.280	0.119	1.00	0.79	0.00	0.108	0.77
11124.0	11.59	2.37	0.20	6.116	0.292	0.101	1.00	0.99	0.00	0.082	0.80
11125.0	11.19	2.18	0.19	5.731	0.314	0.103	1.00	1.00	0.00	0.066	0.88
11126.0	7.34	1.65	0.22	4.400	0.335	0.150	1.00	0.64	0.00	0.069	0.95
11127.0	7.40	1.79	0.24	4.694	0.311	0.150	1.00	0.49	0.00	0.099	0.87
11128.0	7.68	1.94	0.25	5.004	0.289	0.145	1.00	0.54	0.00	0.121	0.81
11129.0	11.54	2.32	0.20	6.025	0.298	0.101	1.00	0.86	0.00	0.077	0.82
11130.0	12.54	2.20	0.18	5.839	0.330	0.090	1.00	1.00	0.00	0.045	0.94
11131.0	17.41	3.04	0.17	7.757	0.274	0.060	1.00	1.00	0.00	0.058	0.73
11132.0	7.55	1.80	0.24	4.717	0.313	0.148	1.00	0.57	0.00	0.095	0.88
11133.0	7.27	1.98	0.27	5.042	0.271	0.150	1.00	0.54	0.00	0.148	0.76
11134.0	8.98	2.22	0.25	5.621	0.269	0.150	0.82	0.58	0.00	0.150	0.74
11135.0	11.38	2.49	0.22	6.330	0.269	0.150	0.63	0.59	0.00	0.150	0.73
11136.0	14.74	2.84	0.19	7.200	0.269	0.087	0.86	1.00	0.00	0.087	0.72
11137.0	15.63	2.75	0.18	7.098	0.292	0.070	1.00	1.00	0.00	0.057	0.79
11138.0	15.42	2.69	0.17	6.973	0.297	0.071	1.00	1.00	0.00	0.055	0.81
11139.0	15.35	2.73	0.18	7.047	0.291	0.072	1.00	1.00	0.00	0.059	0.79
11140.0	15.83	2.89	0.18	7.380	0.275	0.069	1.00	0.97	0.00	0.066	0.74
11141.0	15.46	2.80	0.18	7.193	0.283	0.071	1.00	0.90	0.00	0.063	0.76
11142.0	15.70	2.85	0.18	7.300	0.279	0.070	1.00	0.79	0.00	0.064	0.75
11143.0	16.17	2.96	0.18	7.529	0.270	0.074	0.90	0.64	0.00	0.073	0.72
11144.0	17.71	3.09	0.17	7.865	0.271	0.079	0.71	0.57	0.15	0.077	0.72
11145.0	18.47	3.16	0.17	8.036	0.271	0.078	0.66	0.56	0.31	0.077	0.71
11146.0	15.90	2.95	0.19	7.481	0.269	0.079	0.85	0.54	0.17	0.079	0.72
11147.0	16.21	2.96	0.18	7.533	0.270	0.067	1.00	0.68	0.00	0.066	0.72
11148.0	15.25	2.73	0.18	7.045	0.290	0.073	1.00	0.68	0.00	0.060	0.79
11149.0	15.87	2.94	0.19	7.462	0.270	0.073	0.94	0.58	0.03	0.072	0.72
11150.0	16.49	3.00	0.18	7.607	0.270	0.077	0.83	0.54	0.05	0.076	0.72

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD, 10-6	BULK COMP 10+6	YOUNG'S MOD,	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11151.0	13.46	2.62	0.19	6.709	0.283	0.085	1.00	0.52	0.12	0.076	0.77
11152.0	13.91	2.74	0.20	6.972	0.271	0.082	1.00	0.67	0.00	0.081	0.73
11153.0	8.99	1.99	0.22	5.208	0.308	0.128	1.00	0.48	0.00	0.087	0.86
11154.0	7.37	1.88	0.26	4.864	0.293	0.150	1.00	0.42	0.00	0.120	0.82
11155.0	7.34	2.00	0.27	5.084	0.269	0.150	0.99	0.47	0.00	0.150	0.75
11156.0	7.36	1.99	0.27	5.056	0.273	0.149	1.00	0.39	0.00	0.144	0.76
11157.0	8.81	2.07	0.23	5.343	0.291	0.130	1.00	0.61	0.00	0.107	0.81
11158.0	7.38	1.87	0.25	4.842	0.296	0.150	1.00	0.53	0.00	0.117	0.83
11159.0	7.28	1.98	0.27	5.031	0.272	0.150	1.00	0.51	0.00	0.146	0.76
11160.0	7.34	1.93	0.26	4.949	0.283	0.150	1.00	0.49	0.00	0.133	0.79
11161.0	7.84	1.99	0.25	5.116	0.283	0.143	1.00	0.46	0.04	0.126	0.79
11162.0	14.19	2.78	0.20	7.058	0.270	0.101	0.76	0.55	0.32	0.101	0.73
11163.0	13.98	2.76	0.20	7.012	0.269	0.098	0.81	0.45	0.37	0.097	0.72
11164.0	13.92	2.76	0.20	6.998	0.269	0.096	0.83	0.40	0.35	0.096	0.72
11165.0	14.12	2.77	0.20	7.041	0.269	0.098	0.80	0.41	0.39	0.097	0.73
11166.0	19.34	3.24	0.17	8.230	0.270	0.082	0.56	0.46	0.38	0.081	0.71
11167.0	14.67	2.71	0.18	6.965	0.286	0.077	1.00	0.48	0.21	0.066	0.77
11168.0	16.86	3.02	0.18	7.678	0.271	0.075	0.82	0.49	0.25	0.074	0.72
11169.0	17.24	3.06	0.18	7.772	0.270	0.081	0.72	0.44	0.37	0.080	0.72
11170.0	17.63	3.09	0.18	7.852	0.271	0.082	0.68	0.42	0.39	0.081	0.72
11171.0	17.83	3.11	0.17	7.893	0.271	0.079	0.70	0.41	0.36	0.077	0.72
11172.0	18.09	3.13	0.17	7.949	0.271	0.070	0.78	0.46	0.23	0.069	0.72
11173.0	18.44	3.17	0.17	8.049	0.269	0.061	0.89	0.53	0.07	0.060	0.71
11174.0	18.44	3.16	0.17	8.025	0.271	0.069	0.77	0.46	0.18	0.068	0.72
11175.0	18.86	3.19	0.17	8.108	0.272	0.073	0.69	0.48	0.29	0.071	0.72
11176.0	20.50	3.35	0.16	8.495	0.269	0.073	0.57	0.53	0.33	0.073	0.70
11177.0	17.90	3.12	0.17	7.922	0.270	0.073	0.76	0.55	0.15	0.072	0.71
11178.0	17.91	3.13	0.17	7.937	0.269	0.063	0.91	0.71	0.00	0.063	0.71
11179.0	20.57	3.34	0.16	8.491	0.270	0.048	0.92	1.00	0.00	0.048	0.71
11180.0	19.37	3.12	0.16	8.085	0.284	0.050	1.00	0.96	0.00	0.043	0.76
11181.0	18.21	2.81	0.15	7.374	0.310	0.054	1.00	0.97	0.00	0.036	0.86
11182.0	20.05	3.04	0.15	7.903	0.300	0.045	1.00	1.00	0.00	0.034	0.82
11183.0	21.28	3.40	0.16	8.644	0.270	0.044	0.95	0.94	0.00	0.043	0.70
11184.0	19.63	3.27	0.17	8.305	0.269	0.055	0.88	0.65	0.00	0.055	0.71
11185.0	17.92	3.12	0.17	7.927	0.270	0.062	0.92	0.51	0.07	0.061	0.71
11186.0	18.50	3.16	0.17	8.042	0.271	0.066	0.80	1.00	0.00	0.065	0.71
11187.0	18.44	3.16	0.17	8.030	0.271	0.085	0.60	0.28	0.50	0.083	0.71
11188.0	17.92	3.13	0.17	7.943	0.269	0.089	0.60	0.25	0.52	0.089	0.71
11189.0	18.25	3.15	0.17	7.992	0.270	0.077	0.69	0.28	0.39	0.076	0.71
11190.0	18.11	3.13	0.17	7.958	0.271	0.083	0.64	0.26	0.46	0.082	0.72
11191.0	16.75	3.02	0.18	7.662	0.270	0.078	0.80	0.28	0.27	0.077	0.72
11192.0	17.23	2.96	0.17	7.600	0.282	0.061	1.00	0.44	0.00	0.054	0.76
11193.0	29.06	3.79	0.13	9.760	0.288	0.073	0.09	0.53	0.33	0.061	0.77
11194.0	16.03	2.96	0.18	7.511	0.269	0.098	0.65	0.53	0.05	0.098	0.72
11195.0	12.40	2.53	0.20	6.482	0.279	0.094	1.00	0.70	0.00	0.086	0.76
11196.0	7.46	1.78	0.24	4.676	0.314	0.149	1.00	0.51	0.00	0.094	0.89
11197.0	7.39	1.86	0.25	4.891	0.298	0.150	1.00	0.59	0.00	0.114	0.83
11198.0	7.40	1.80	0.24	4.705	0.310	0.150	1.00	0.66	0.00	0.100	0.87

Schlumberger

DEPTH FEET	RATIO G/CR 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11199.0	7.40	1.81	0.24	4.730	0.307	0.150	1.00	0.65	0.00	0.103	0.86
11200.0	10.72	2.42	0.23	6.136	0.269	0.114	0.94	0.80	0.00	0.114	0.74
11201.0	7.39	1.74	0.23	4.587	0.320	0.150	1.00	0.62	0.00	0.087	0.91
11202.0	7.38	1.88	0.25	4.860	0.294	0.150	1.00	0.55	0.00	0.120	0.82
11203.0	9.63	2.29	0.24	5.812	0.270	0.123	0.97	0.66	0.00	0.122	0.74
11204.0	12.73	2.40	0.19	6.266	0.303	0.090	1.00	1.00	0.00	0.065	0.84
11205.0	15.84	2.62	0.17	6.869	0.311	0.067	1.00	1.00	0.00	0.045	0.86
11206.0	14.02	2.50	0.18	6.528	0.306	0.080	1.00	1.00	0.00	0.056	0.85
11207.0	12.36	2.34	0.19	6.114	0.307	0.093	1.00	1.00	0.00	0.064	0.85
11208.0	14.67	2.70	0.18	6.947	0.287	0.077	1.00	1.00	0.00	0.065	0.78
11209.0	15.74	2.93	0.19	7.437	0.269	0.090	0.75	0.83	0.00	0.089	0.72
11210.0	8.82	2.13	0.24	5.449	0.281	0.130	1.00	0.57	0.00	0.117	0.78
11211.0	7.32	1.94	0.26	4.968	0.281	0.150	1.00	0.51	0.00	0.136	0.78
11212.0	7.43	2.02	0.27	5.113	0.269	0.150	0.98	0.55	0.00	0.150	0.75
11213.0	7.35	1.91	0.26	4.920	0.287	0.150	1.00	0.57	0.00	0.128	0.80
11214.0	8.36	2.13	0.26	5.414	0.270	0.137	0.98	0.60	0.00	0.136	0.75
11215.0	15.70	2.92	0.19	7.414	0.270	0.094	0.71	0.85	0.00	0.093	0.72
11216.0	12.42	2.26	0.18	5.959	0.319	0.092	1.00	1.00	0.00	0.054	0.90
11217.0	11.68	2.22	0.19	5.832	0.316	0.099	1.00	1.00	0.00	0.061	0.88
11218.0	13.99	2.64	0.19	6.801	0.286	0.081	1.00	1.00	0.00	0.070	0.78
11219.0	14.25	2.51	0.18	6.557	0.308	0.078	1.00	1.00	0.00	0.054	0.85
11220.0	10.82	2.01	0.19	5.368	0.334	0.105	1.00	1.00	0.00	0.050	0.95
11221.0	8.13	1.70	0.21	4.561	0.341	0.137	1.00	1.00	0.00	0.057	0.95
11222.0	8.25	1.77	0.21	4.705	0.332	0.136	1.00	0.90	0.00	0.066	0.95
11223.0	14.44	2.66	0.18	6.859	0.290	0.078	1.00	1.00	0.00	0.065	0.79
11224.0	20.16	3.31	0.16	8.414	0.269	0.048	0.97	1.00	0.00	0.048	0.71
11225.0	19.43	2.91	0.15	7.631	0.309	0.048	1.00	1.00	0.00	0.032	0.85
11226.0	18.83	2.78	0.15	7.331	0.320	0.049	1.00	1.00	0.00	0.029	0.90
11227.0	18.68	2.99	0.16	7.730	0.294	0.053	1.00	1.00	0.00	0.042	0.79
11228.0	21.62	3.43	0.16	8.715	0.269	0.042	0.94	1.00	0.00	0.042	0.70
11229.0	23.26	3.56	0.15	9.032	0.270	0.044	0.74	1.00	0.00	0.043	0.70
11230.0	18.64	2.96	0.16	7.678	0.297	0.053	1.00	1.00	0.00	0.041	0.80
11231.0	9.76	1.92	0.20	5.109	0.333	0.117	1.00	0.90	0.00	0.056	0.95
11232.0	10.09	2.07	0.20	5.432	0.315	0.115	1.00	0.78	0.00	0.072	0.88
11233.0	14.40	2.60	0.18	6.744	0.297	0.078	1.00	1.00	0.00	0.060	0.81
11234.0	15.81	2.64	0.17	6.902	0.308	0.068	1.00	1.00	0.00	0.046	0.85
11235.0	15.75	2.57	0.16	6.765	0.316	0.067	1.00	1.00	0.00	0.042	0.88
11236.0	13.28	2.26	0.17	6.003	0.330	0.083	1.00	1.00	0.00	0.042	0.94
11237.0	14.02	2.54	0.18	6.603	0.301	0.081	1.00	1.00	0.00	0.060	0.83
11238.0	11.70	2.36	0.20	6.108	0.295	0.099	1.00	0.87	0.00	0.078	0.81
11239.0	10.18	2.20	0.22	5.705	0.294	0.114	1.00	0.89	0.00	0.091	0.81
11240.0	9.79	1.99	0.20	5.270	0.321	0.118	1.00	1.00	0.00	0.068	0.91
11241.0	7.40	1.75	0.24	4.619	0.318	0.150	1.00	1.00	0.00	0.091	0.90
11242.0	8.76	2.19	0.25	5.554	0.269	0.150	0.84	0.86	0.00	0.150	0.74
11243.0	11.68	2.53	0.22	6.412	0.269	0.150	0.61	0.83	0.00	0.150	0.73
11244.0	8.25	2.12	0.26	5.390	0.269	0.150	0.89	0.80	0.00	0.150	0.75
11245.0	7.39	1.84	0.25	4.792	0.301	0.150	1.00	0.73	0.00	0.111	0.84
11246.0	10.85	2.37	0.22	6.067	0.280	0.107	1.00	0.78	0.00	0.098	0.77

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DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11247.0	20.20	3.31	0.16	8.408	0.270	0.062	0.71	0.96	0.00	0.062	0.71
11248.0	22.49	3.50	0.16	8.895	0.269	0.050	0.69	1.00	0.00	0.050	0.70
11249.0	21.36	3.40	0.16	8.647	0.270	0.060	0.65	0.92	0.00	0.059	0.71
11250.0	13.49	2.46	0.18	6.412	0.305	0.084	1.00	1.00	0.00	0.059	0.85
11251.0	8.68	1.76	0.20	4.722	0.340	0.130	1.00	1.00	0.00	0.055	0.95
11252.0	7.16	1.51	0.21	4.088	0.357	0.150	1.00	1.00	0.00	0.043	0.95
11253.0	7.31	1.62	0.22	4.336	0.340	0.150	1.00	0.87	0.00	0.063	0.95
11254.0	10.22	2.31	0.23	5.901	0.278	0.114	1.00	0.89	0.00	0.105	0.76
11255.0	12.14	2.58	0.21	6.539	0.269	0.150	0.58	0.62	0.00	0.150	0.73
11256.0	14.25	2.79	0.20	7.084	0.269	0.150	0.46	0.56	0.14	0.150	0.72
11257.0	17.58	3.10	0.18	7.867	0.269	0.150	0.31	0.56	0.08	0.150	0.71
11258.0	15.92	2.95	0.19	7.486	0.269	0.150	0.38	0.73	0.09	0.150	0.72
11259.0	12.47	2.61	0.21	6.625	0.269	0.150	0.56	0.59	0.00	0.150	0.73
11260.0	12.30	2.28	0.19	5.995	0.315	0.093	1.00	1.00	0.00	0.059	0.88
11261.0	15.37	2.51	0.16	6.634	0.319	0.070	1.00	1.00	0.00	0.041	0.89
11262.0	10.41	1.97	0.19	5.267	0.333	0.110	1.00	1.00	0.00	0.052	0.95
11263.0	9.36	1.94	0.21	5.142	0.322	0.123	1.00	1.00	0.00	0.070	0.91
11264.0	10.11	2.18	0.22	5.661	0.296	0.115	1.00	0.98	0.00	0.089	0.82
11265.0	7.39	1.85	0.25	4.803	0.300	0.150	1.00	0.63	0.00	0.112	0.84
11266.0	8.55	2.16	0.25	5.488	0.269	0.150	0.86	0.55	0.00	0.150	0.75
11267.0	10.28	2.37	0.23	6.016	0.269	0.150	0.71	0.48	0.00	0.150	0.74
11268.0	13.54	2.71	0.20	6.888	0.270	0.103	0.80	0.62	0.00	0.101	0.73
11269.0	17.52	2.85	0.16	7.400	0.300	0.058	1.00	1.00	0.00	0.044	0.82
11270.0	15.50	2.08	0.13	5.713	0.372	0.057	1.00	1.00	0.00	0.009	0.95
11271.0	15.49	2.19	0.14	5.960	0.359	0.061	1.00	1.00	0.00	0.016	0.95
11272.0	16.38	2.50	0.15	6.662	0.330	0.062	1.00	1.00	0.00	0.031	0.94
11273.0	13.89	2.18	0.16	5.861	0.347	0.076	1.00	1.00	0.00	0.028	0.95
11274.0	13.22	2.16	0.16	5.794	0.342	0.082	1.00	1.00	0.00	0.033	0.95
11275.0	14.45	2.43	0.17	6.410	0.320	0.076	1.00	1.00	0.00	0.044	0.90
11276.0	17.42	2.97	0.17	7.683	0.283	0.060	1.00	0.90	0.00	0.053	0.76
11277.0	20.46	3.34	0.16	8.481	0.269	0.047	0.95	1.00	0.00	0.047	0.70
11278.0	19.83	3.29	0.17	8.353	0.269	0.050	0.96	1.00	0.00	0.050	0.71
11279.0	10.33	2.16	0.21	5.632	0.304	0.112	1.00	0.77	0.00	0.081	0.85
11280.0	7.36	1.90	0.26	4.893	0.290	0.150	1.00	0.56	0.00	0.124	0.81
11281.0	7.34	1.92	0.26	4.939	0.284	0.150	1.00	0.56	0.00	0.131	0.79
11282.0	7.40	1.82	0.25	4.760	0.304	0.150	1.00	0.51	0.00	0.107	0.85
11283.0	8.69	1.91	0.22	5.021	0.316	0.131	1.00	0.58	0.00	0.081	0.89
11284.0	12.52	2.23	0.18	5.898	0.325	0.090	1.00	1.00	0.00	0.049	0.92
11285.0	18.68	2.88	0.15	7.518	0.307	0.052	1.00	1.00	0.00	0.036	0.84
11286.0	7.40	1.81	0.24	4.728	0.307	0.150	1.00	0.58	0.00	0.103	0.86
11287.0	10.81	2.43	0.22	6.170	0.269	0.150	0.67	0.63	0.00	0.150	0.74
11288.0	13.50	2.72	0.20	6.895	0.269	0.150	0.50	0.67	0.00	0.150	0.73
11289.0	9.31	2.26	0.24	5.725	0.269	0.150	0.79	0.64	0.00	0.150	0.74
11290.0	10.82	2.05	0.19	5.453	0.327	0.106	1.00	0.96	0.00	0.056	0.93
11291.0	15.08	2.48	0.16	6.552	0.320	0.071	1.00	1.00	0.00	0.042	0.90
11292.0	16.31	2.50	0.15	6.642	0.331	0.062	1.00	1.00	0.00	0.031	0.94
11293.0	16.61	2.69	0.16	7.038	0.310	0.063	1.00	0.92	0.00	0.042	0.86
11294.0	17.67	2.97	0.17	7.642	0.286	0.058	1.00	0.83	0.00	0.050	0.77

Schlumberger

DEPTH FEET	RATIO G/CH 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11295.0	19.37	3.25	0.17	8.250	0.269	0.055	0.91	0.83	0.00	0.054	0.71
11296.0	19.53	3.27	0.17	8.290	0.269	0.051	0.97	0.88	0.00	0.051	0.71
11297.0	18.44	3.14	0.17	7.993	0.273	0.055	1.00	0.82	0.00	0.053	0.72
11298.0	18.18	3.15	0.17	7.998	0.269	0.059	0.95	0.72	0.00	0.059	0.71
11299.0	19.01	3.22	0.17	8.172	0.269	0.056	0.92	0.78	0.00	0.056	0.71
11300.0	18.06	3.14	0.17	7.962	0.270	0.061	0.92	0.73	0.00	0.061	0.71
11301.0	18.01	3.09	0.17	7.884	0.274	0.057	1.00	0.81	0.00	0.054	0.73
11302.0	16.91	2.71	0.16	7.096	0.311	0.061	1.00	0.85	0.00	0.040	0.86
11303.0	15.88	2.68	0.17	6.992	0.303	0.068	1.00	0.81	0.00	0.049	0.83
11304.0	14.14	2.48	0.18	6.505	0.310	0.079	1.00	0.91	0.00	0.053	0.86
11305.0	8.37	1.84	0.22	4.863	0.322	0.135	1.00	0.58	0.00	0.077	0.91
11306.0	8.06	1.93	0.24	5.011	0.300	0.140	1.00	0.60	0.00	0.104	0.84
11307.0	7.41	1.78	0.24	4.673	0.313	0.150	1.00	0.63	0.00	0.096	0.88
11308.0	7.39	1.85	0.25	4.813	0.299	0.150	1.00	0.73	0.00	0.113	0.84
11309.0	7.36	1.90	0.26	4.898	0.289	0.150	1.00	0.79	0.00	0.125	0.81
11310.0	11.15	2.30	0.21	5.956	0.295	0.104	1.00	1.00	0.00	0.082	0.82
11311.0	7.78	1.60	0.21	4.321	0.352	0.141	1.00	1.00	0.00	0.046	0.95
11312.0	7.22	1.54	0.21	4.169	0.352	0.150	1.00	1.00	0.00	0.049	0.95
11313.0	9.44	1.90	0.20	5.046	0.331	0.121	1.00	1.00	0.00	0.060	0.94
11314.0	12.01	2.26	0.19	5.940	0.314	0.096	1.00	1.00	0.00	0.061	0.88
11315.0	12.58	2.43	0.19	6.295	0.298	0.092	1.00	1.00	0.00	0.070	0.82
11316.0	8.21	1.81	0.22	4.782	0.325	0.138	1.00	1.00	0.00	0.075	0.92
11317.0	7.39	1.74	0.24	4.593	0.320	0.150	1.00	1.00	0.00	0.088	0.91
11318.0	8.63	1.98	0.23	5.159	0.303	0.132	1.00	0.98	0.00	0.096	0.85
11319.0	10.55	2.19	0.21	5.701	0.303	0.110	1.00	1.00	0.00	0.080	0.84
11320.0	10.25	1.97	0.19	5.245	0.332	0.111	1.00	1.00	0.00	0.054	0.95
11321.0	10.81	2.01	0.19	5.352	0.334	0.105	1.00	1.00	0.00	0.049	0.95
11322.0	12.59	2.34	0.19	6.126	0.310	0.091	1.00	0.80	0.00	0.060	0.86
11323.0	15.73	2.92	0.19	7.418	0.271	0.077	0.89	0.64	0.15	0.076	0.72
11324.0	15.99	2.96	0.18	7.503	0.269	0.094	0.69	0.48	0.36	0.094	0.72
11325.0	13.87	2.75	0.20	6.988	0.269	0.101	0.79	0.48	0.36	0.101	0.72
11326.0	16.51	3.00	0.18	7.620	0.269	0.081	0.78	0.69	0.21	0.081	0.72
11327.0	18.56	3.18	0.17	8.069	0.270	0.064	0.83	1.00	0.00	0.063	0.71
11328.0	17.86	3.12	0.17	7.923	0.269	0.078	0.71	0.97	0.00	0.077	0.71
11329.0	13.75	2.74	0.20	6.946	0.270	0.103	0.78	0.80	0.00	0.102	0.73
11330.0	7.36	1.90	0.26	4.900	0.289	0.150	1.00	0.58	0.00	0.125	0.81
11331.0	7.87	2.07	0.26	5.264	0.269	0.150	0.93	0.63	0.00	0.150	0.75
11332.0	8.06	2.10	0.26	5.321	0.270	0.142	0.97	0.68	0.00	0.141	0.75
11333.0	8.66	1.90	0.22	5.013	0.316	0.132	1.00	0.85	0.00	0.081	0.89
11334.0	7.76	1.75	0.23	4.632	0.326	0.144	1.00	0.78	0.00	0.077	0.93
11335.0	7.40	1.79	0.24	4.698	0.310	0.150	1.00	0.71	0.00	0.099	0.87
11336.0	7.33	1.93	0.26	4.953	0.283	0.150	1.00	0.65	0.00	0.133	0.79
11337.0	9.42	2.27	0.24	5.760	0.269	0.150	0.78	0.61	0.00	0.150	0.74
11338.0	11.09	2.46	0.22	6.249	0.269	0.150	0.65	0.57	0.00	0.150	0.74
11339.0	10.81	2.43	0.22	6.170	0.269	0.150	0.67	0.62	0.00	0.150	0.74
11340.0	16.31	2.97	0.18	7.558	0.270	0.113	0.53	0.86	0.00	0.112	0.72
11341.0	16.14	2.84	0.18	7.301	0.286	0.067	1.00	1.00	0.00	0.058	0.77
11342.0	11.75	2.19	0.19	5.778	0.321	0.098	1.00	1.00	0.00	0.057	0.90

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11343.0	7.27	1.58	0.22	4.252	0.346	0.150	1.00	1.00	0.00	0.056	0.95
11344.0	7.73	1.74	0.23	4.625	0.326	0.144	1.00	0.87	0.00	0.077	0.93
11345.0	9.23	2.03	0.22	5.295	0.306	0.125	1.00	0.78	0.00	0.087	0.86
11346.0	10.81	2.24	0.21	5.828	0.298	0.108	1.00	0.95	0.00	0.082	0.83
11347.0	13.96	2.67	0.19	6.852	0.281	0.082	1.00	1.00	0.00	0.073	0.76
11348.0	14.48	2.58	0.18	6.717	0.300	0.077	1.00	1.00	0.00	0.058	0.83
11349.0	7.30	1.61	0.22	4.315	0.342	0.150	1.00	0.82	0.00	0.062	0.95
11350.0	7.40	1.78	0.24	4.679	0.312	0.150	1.00	0.74	0.00	0.097	0.88
11351.0	8.08	2.00	0.25	5.158	0.287	0.139	1.00	0.63	0.00	0.119	0.80
11352.0	11.88	2.50	0.21	6.374	0.277	0.098	1.00	0.76	0.00	0.092	0.76
11353.0	16.82	2.90	0.17	7.455	0.286	0.063	1.00	1.00	0.00	0.054	0.77
11354.0	20.13	3.24	0.16	8.282	0.278	0.046	1.00	1.00	0.00	0.043	0.73
11355.0	15.86	2.71	0.17	7.046	0.299	0.068	1.00	1.00	0.00	0.051	0.82
11356.0	8.74	1.91	0.22	5.026	0.317	0.131	1.00	0.64	0.00	0.079	0.89
11357.0	7.38	1.87	0.25	4.839	0.296	0.150	1.00	0.53	0.00	0.117	0.83
11358.0	7.37	1.89	0.26	4.877	0.292	0.150	1.00	0.54	0.00	0.122	0.82
11359.0	7.36	1.90	0.26	4.898	0.289	0.150	1.00	0.55	0.00	0.125	0.81
11360.0	7.36	1.90	0.26	4.891	0.290	0.150	1.00	0.55	0.00	0.124	0.81
11361.0	7.37	1.88	0.26	4.871	0.292	0.150	1.00	0.56	0.00	0.121	0.82
11362.0	7.47	1.84	0.25	4.805	0.302	0.149	1.00	0.58	0.00	0.108	0.85
11363.0	7.84	1.84	0.23	4.824	0.311	0.143	1.00	0.59	0.00	0.094	0.88
11364.0	7.40	1.77	0.24	4.656	0.314	0.150	1.00	0.51	0.00	0.095	0.89
11365.0	7.72	1.83	0.24	4.803	0.310	0.145	1.00	0.48	0.00	0.097	0.87
11366.0	12.04	2.40	0.20	6.205	0.294	0.097	1.00	0.75	0.00	0.077	0.81
11367.0	14.74	2.66	0.18	6.885	0.293	0.076	1.00	0.99	0.00	0.061	0.80
11368.0	14.54	2.60	0.18	6.791	0.299	0.077	1.00	1.00	0.00	0.058	0.82
11369.0	14.28	2.53	0.18	6.604	0.305	0.078	1.00	1.00	0.00	0.055	0.84
11370.0	14.27	2.56	0.18	6.667	0.300	0.079	1.00	1.00	0.00	0.059	0.83
11371.0	13.84	2.54	0.18	6.596	0.298	0.082	1.00	0.90	0.00	0.063	0.82
11372.0	14.82	2.46	0.17	6.505	0.320	0.073	1.00	1.00	0.00	0.043	0.90
11373.0	18.82	2.56	0.14	6.889	0.344	0.045	1.00	1.00	0.00	0.018	0.95
11374.0	21.01	2.36	0.11	6.508	0.378	0.024	1.00	1.00	0.00	0.003	0.95
11375.0	18.63	2.22	0.12	6.129	0.378	0.036	1.00	1.00	0.00	0.004	0.95
11376.0	15.11	2.22	0.15	6.011	0.353	0.066	1.00	1.00	0.00	0.021	0.95
11377.0	12.75	2.14	0.17	5.731	0.340	0.086	1.00	1.00	0.00	0.037	0.95
11378.0	12.33	2.22	0.18	5.881	0.323	0.092	1.00	1.00	0.00	0.051	0.91
11379.0	12.86	2.36	0.18	6.195	0.310	0.089	1.00	1.00	0.00	0.059	0.86
11380.0	12.38	2.25	0.18	5.949	0.319	0.092	1.00	1.00	0.00	0.054	0.90
11381.0	11.91	2.18	0.18	5.773	0.324	0.096	1.00	1.00	0.00	0.053	0.92
11382.0	12.07	2.25	0.19	5.920	0.316	0.095	1.00	1.00	0.00	0.059	0.89
11383.0	12.03	2.32	0.19	6.064	0.305	0.096	1.00	0.99	0.00	0.068	0.85
11384.0	13.32	2.62	0.20	6.702	0.280	0.086	1.00	0.99	0.00	0.078	0.76
11385.0	14.69	2.76	0.19	7.051	0.280	0.077	1.00	1.00	0.00	0.070	0.76
11386.0	14.79	2.75	0.19	7.047	0.282	0.076	1.00	1.00	0.00	0.068	0.76
11387.0	15.32	2.86	0.19	7.287	0.273	0.073	1.00	1.00	0.00	0.070	0.73
11388.0	15.32	2.87	0.19	7.310	0.271	0.073	1.00	1.00	0.00	0.071	0.73
11389.0	13.17	2.59	0.20	6.634	0.283	0.087	1.00	0.95	0.00	0.077	0.77
11390.0	12.03	2.32	0.19	6.083	0.306	0.096	1.00	0.91	0.00	0.067	0.85

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11391.0	15.21	2.60	0.17	6.792	0.307	0.072	1.00	1.00	0.00	0.050	0.85
11392.0	16.39	2.65	0.16	6.958	0.312	0.064	1.00	1.00	0.00	0.041	0.87
11393.0	15.84	2.75	0.17	7.109	0.295	0.069	1.00	1.00	0.00	0.054	0.80
11394.0	16.23	2.81	0.17	7.247	0.291	0.066	1.00	1.00	0.00	0.054	0.79
11395.0	15.01	2.56	0.17	6.697	0.310	0.073	1.00	1.00	0.00	0.049	0.86
11396.0	13.22	2.29	0.17	6.061	0.325	0.085	1.00	1.00	0.00	0.046	0.92
11397.0	8.05	1.65	0.21	4.459	0.347	0.138	1.00	1.00	0.00	0.050	0.95
11401.0	7.83	1.79	0.23	4.735	0.319	0.143	1.00	0.84	0.00	0.085	0.90
11402.0	14.01	2.53	0.18	6.594	0.301	0.081	1.00	1.00	0.00	0.059	0.83
11403.0	14.64	2.46	0.17	6.488	0.318	0.075	1.00	1.00	0.00	0.045	0.89
11404.0	10.50	2.05	0.19	5.422	0.324	0.110	1.00	1.00	0.00	0.061	0.92
11405.0	8.53	1.89	0.22	4.981	0.316	0.134	1.00	1.00	0.00	0.083	0.89
11406.0	7.77	1.76	0.23	4.666	0.324	0.144	1.00	0.94	0.00	0.080	0.92
11407.0	7.57	1.70	0.22	4.521	0.331	0.147	1.00	0.87	0.00	0.073	0.95
11408.0	8.08	1.79	0.22	4.736	0.325	0.139	1.00	0.79	0.00	0.075	0.92
11409.0	8.66	1.90	0.22	5.011	0.317	0.132	1.00	0.75	0.00	0.081	0.89
11410.0	9.42	1.92	0.20	5.094	0.327	0.122	1.00	0.88	0.00	0.064	0.93
11411.0	11.73	2.11	0.18	5.612	0.332	0.097	1.00	1.00	0.00	0.047	0.95
11412.0	14.37	2.44	0.17	6.483	0.319	0.077	1.00	1.00	0.00	0.046	0.89
11413.0	11.92	2.10	0.18	5.612	0.335	0.094	1.00	1.00	0.00	0.044	0.95
11414.0	9.30	1.87	0.20	4.981	0.333	0.122	1.00	1.00	0.00	0.058	0.95
11415.0	9.55	1.84	0.19	4.946	0.341	0.118	1.00	1.00	0.00	0.049	0.95
11416.0	11.59	1.91	0.17	5.190	0.357	0.093	1.00	1.00	0.00	0.026	0.95
11417.0	9.95	1.86	0.19	5.010	0.344	0.113	1.00	1.00	0.00	0.045	0.95
11418.0	8.57	1.73	0.20	4.655	0.343	0.131	1.00	1.00	0.00	0.052	0.95
11419.0	10.70	1.91	0.18	5.155	0.346	0.104	1.00	1.00	0.00	0.039	0.95
11420.0	11.22	1.94	0.17	5.236	0.349	0.099	1.00	1.00	0.00	0.035	0.95
11421.0	13.41	2.23	0.17	5.952	0.335	0.082	1.00	1.00	0.00	0.038	0.95
11422.0	15.76	2.55	0.16	6.721	0.319	0.067	1.00	1.00	0.00	0.040	0.89
11423.0	14.11	2.40	0.17	6.347	0.320	0.078	1.00	1.00	0.00	0.046	0.90
11424.0	14.36	2.56	0.18	6.664	0.302	0.078	1.00	1.00	0.00	0.057	0.83
11425.0	13.85	2.56	0.18	6.628	0.296	0.082	1.00	1.00	0.00	0.064	0.81
11426.0	11.73	2.27	0.19	5.934	0.309	0.099	1.00	1.00	0.00	0.067	0.86
11427.0	8.26	1.82	0.22	4.814	0.323	0.137	1.00	1.00	0.00	0.076	0.92
11428.0	7.39	1.73	0.23	4.572	0.322	0.150	1.00	0.83	0.00	0.086	0.91
11429.0	7.34	1.65	0.22	4.409	0.335	0.150	1.00	0.78	0.00	0.070	0.95
11430.0	9.97	1.95	0.20	5.183	0.331	0.115	1.00	1.00	0.00	0.057	0.95
11431.0	12.06	2.24	0.19	5.895	0.318	0.095	1.00	1.00	0.00	0.057	0.89
11432.0	12.41	2.41	0.19	6.264	0.297	0.093	1.00	1.00	0.00	0.072	0.82
11433.0	11.87	2.39	0.20	6.172	0.293	0.098	1.00	1.00	0.00	0.079	0.81
11434.0	12.35	2.57	0.21	6.542	0.273	0.094	1.00	0.94	0.00	0.091	0.74
11435.0	12.79	2.64	0.21	6.700	0.270	0.093	0.97	0.90	0.00	0.092	0.73
11436.0	12.91	2.65	0.21	6.736	0.269	0.095	0.93	0.87	0.00	0.095	0.73
11437.0	12.67	2.63	0.21	6.671	0.269	0.093	0.98	1.00	0.00	0.092	0.73
11438.0	12.94	2.63	0.20	6.693	0.273	0.089	1.00	0.97	0.00	0.086	0.74
11439.0	13.29	2.54	0.19	6.565	0.291	0.086	1.00	1.00	0.00	0.071	0.80
11440.0	12.69	2.40	0.19	6.258	0.303	0.091	1.00	1.00	0.00	0.066	0.84

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11441.0	12.92	2.32	0.18	6.115	0.317	0.088	1.00	1.00	0.00	0.054	0.89
11442.0	14.89	2.51	0.17	6.593	0.315	0.073	1.00	1.00	0.00	0.046	0.88
11443.0	13.44	2.22	0.17	5.936	0.336	0.081	1.00	1.00	0.00	0.037	0.95
11444.0	11.58	1.97	0.17	5.313	0.349	0.095	1.00	1.00	0.00	0.033	0.95
11445.0	13.38	2.12	0.16	5.783	0.349	0.079	1.00	1.00	0.00	0.028	0.95
11446.0	15.85	2.31	0.15	6.232	0.349	0.062	1.00	1.00	0.00	0.022	0.95
11447.0	15.04	2.19	0.15	5.932	0.356	0.065	1.00	1.00	0.00	0.019	0.95
11448.0	15.99	2.42	0.15	6.479	0.336	0.063	1.00	1.00	0.00	0.029	0.95
11449.0	13.36	2.09	0.16	5.652	0.353	0.079	1.00	1.00	0.00	0.025	0.95
11450.0	10.08	1.83	0.18	4.953	0.350	0.111	1.00	1.00	0.00	0.038	0.95
11451.0	7.29	1.60	0.22	4.301	0.343	0.150	1.00	1.00	0.00	0.060	0.95
11452.0	8.88	1.83	0.21	4.873	0.333	0.128	1.00	1.00	0.00	0.062	0.95
11453.0	9.63	1.89	0.20	5.055	0.334	0.118	1.00	1.00	0.00	0.056	0.95
11460.0	8.11	1.74	0.21	4.640	0.334	0.138	1.00	0.71	0.00	0.065	0.95
11461.0	8.91	1.86	0.21	4.941	0.328	0.128	1.00	0.71	0.00	0.066	0.93
11462.0	10.35	1.92	0.19	5.147	0.341	0.109	1.00	1.00	0.00	0.045	0.95
11463.0	11.96	1.84	0.15	5.033	0.371	0.086	1.00	1.00	0.00	0.014	0.95
11464.0	13.61	1.99	0.15	5.433	0.368	0.073	1.00	1.00	0.00	0.014	0.95
11465.0	12.68	2.26	0.18	5.981	0.322	0.089	1.00	1.00	0.00	0.051	0.91
11466.0	9.68	2.03	0.21	5.334	0.313	0.119	1.00	0.96	0.00	0.076	0.88
11467.0	7.75	1.72	0.22	4.587	0.330	0.144	1.04	0.83	0.10	0.073	0.94
11468.0	9.11	1.94	0.21	5.107	0.319	0.126	1.00	0.92	0.00	0.075	0.90
11469.0	9.15	1.92	0.21	5.073	0.323	0.125	1.00	0.90	0.00	0.070	0.91
11470.0	8.55	1.79	0.21	4.784	0.333	0.132	1.00	0.84	0.00	0.064	0.95
11471.0	7.90	1.69	0.21	4.524	0.339	0.141	1.00	0.76	0.00	0.061	0.95
11472.0	9.45	1.90	0.20	5.055	0.331	0.121	1.00	0.79	0.00	0.060	0.94
11473.0	13.19	2.37	0.18	6.234	0.313	0.086	1.00	1.00	0.00	0.055	0.87
11474.0	12.68	2.39	0.19	6.241	0.304	0.091	1.00	0.94	0.00	0.065	0.84
11475.0	9.83	2.04	0.21	5.372	0.314	0.118	1.00	0.72	0.00	0.075	0.88
11476.0	13.10	2.50	0.19	6.479	0.293	0.088	1.00	0.91	0.00	0.070	0.81
11477.0	14.05	2.65	0.19	6.820	0.285	0.081	1.00	0.99	0.00	0.070	0.78
11478.0	9.86	2.10	0.21	5.489	0.305	0.118	1.00	0.71	0.00	0.083	0.85
11479.0	10.14	2.18	0.21	5.651	0.298	0.115	1.00	0.74	0.00	0.088	0.83
11480.0	11.97	2.29	0.19	5.992	0.309	0.097	1.00	1.00	0.00	0.065	0.86
11481.0	10.04	2.04	0.20	5.368	0.319	0.115	1.00	0.86	0.00	0.069	0.90
11482.0	7.39	1.74	0.24	4.591	0.320	0.150	1.00	0.62	0.00	0.088	0.91
11483.0	7.40	1.76	0.24	4.641	0.316	0.150	1.00	0.71	0.00	0.093	0.89
11484.0	9.92	1.96	0.20	5.200	0.329	0.115	1.00	1.00	0.00	0.059	0.94
11485.0	11.77	1.98	0.17	5.383	0.350	0.093	1.00	1.00	0.00	0.032	0.95
11486.0	9.82	1.82	0.19	4.916	0.348	0.114	1.00	1.00	0.00	0.041	0.95
11487.0	8.58	1.70	0.20	4.584	0.349	0.130	1.00	1.00	0.00	0.046	0.95
11488.0	8.56	1.66	0.19	4.501	0.354	0.129	1.00	1.00	0.00	0.039	0.95
11489.0	10.48	1.74	0.17	4.765	0.368	0.102	1.00	1.00	0.00	0.020	0.95
11490.0	13.25	2.16	0.16	5.790	0.343	0.082	1.00	1.00	0.00	0.033	0.95
11491.0	10.17	1.99	0.20	5.289	0.327	0.113	1.00	1.00	0.00	0.059	0.93
11492.0	7.40	1.82	0.25	4.753	0.305	0.150	1.00	0.68	0.00	0.106	0.86
11493.0	7.40	1.81	0.24	4.723	0.308	0.150	1.00	0.62	0.00	0.102	0.87

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11494.0	9.53	2.03	0.21	5.317	0.312	0.121	1.00	0.83	0.00	0.079	0.87
11495.0	8.82	1.90	0.22	5.011	0.320	0.129	1.00	0.89	0.00	0.075	0.91
11496.0	7.40	1.77	0.24	4.659	0.314	0.150	1.00	0.78	0.00	0.095	0.89
11497.0	7.40	1.81	0.24	4.725	0.308	0.150	1.00	0.78	0.00	0.103	0.87
11498.0	7.38	1.71	0.23	4.527	0.325	0.150	1.00	0.77	0.00	0.081	0.93
11499.0	10.29	2.02	0.20	5.346	0.325	0.112	1.00	0.98	0.00	0.061	0.92
11500.0	17.71	3.11	0.18	7.891	0.269	0.063	0.93	1.00	0.00	0.062	0.71
11501.0	17.03	3.04	0.18	7.723	0.270	0.090	0.65	0.56	0.03	0.089	0.72
11502.0	14.17	2.78	0.20	7.054	0.270	0.099	0.78	0.44	0.08	0.098	0.73
11503.0	11.84	2.54	0.21	6.483	0.269	0.111	0.87	0.41	0.04	0.110	0.73
11504.0	11.57	2.51	0.22	6.365	0.270	0.114	0.86	0.56	0.03	0.113	0.74
11505.0	12.09	2.49	0.21	6.388	0.280	0.096	1.00	0.82	0.00	0.087	0.77
11517.0	14.88	2.30	0.15	6.173	0.341	0.070	1.00	1.00	0.00	0.029	0.95
11518.0	17.51	2.55	0.15	6.799	0.335	0.054	1.00	1.00	0.00	0.025	0.95
11519.0	17.96	2.75	0.15	7.243	0.315	0.055	1.00	1.00	0.00	0.034	0.88
11521.0	16.23	2.51	0.15	6.659	0.329	0.063	1.00	1.00	0.00	0.032	0.93
11522.0	17.36	2.87	0.17	7.426	0.296	0.060	1.00	1.00	0.00	0.047	0.80
11528.0	11.13	2.13	0.19	5.619	0.321	0.103	1.00	1.00	0.00	0.060	0.91
11529.0	10.93	1.96	0.18	5.262	0.343	0.103	1.00	1.00	0.00	0.041	0.95
11530.0	13.45	2.01	0.15	5.481	0.364	0.075	1.00	1.00	0.00	0.017	0.95
11531.0	17.14	2.29	0.13	6.244	0.361	0.051	1.00	1.00	0.00	0.013	0.95
11532.0	25.01	3.66	0.15	9.321	0.272	0.027	1.00	1.00	0.00	0.026	0.71
11533.0	23.57	3.59	0.15	9.102	0.269	0.035	0.91	1.00	0.00	0.035	0.70
11534.0	12.74	2.34	0.18	6.131	0.313	0.090	1.00	0.85	0.00	0.058	0.87
11537.0	15.73	2.59	0.16	6.811	0.313	0.068	1.00	1.00	0.00	0.044	0.87
11538.0	10.11	2.01	0.20	5.330	0.323	0.114	1.00	0.80	0.00	0.064	0.91
11541.0	7.39	1.73	0.23	4.582	0.321	0.150	1.00	0.84	0.00	0.087	0.91
11542.0	7.39	1.69	0.23	4.499	0.328	0.150	1.00	0.83	0.00	0.078	0.94
11543.0	7.97	1.79	0.23	4.744	0.322	0.141	1.00	0.76	0.00	0.080	0.91
11544.0	10.65	2.18	0.20	5.688	0.306	0.109	1.00	0.79	0.00	0.076	0.85
11545.0	13.91	2.58	0.19	6.680	0.293	0.082	1.00	0.83	0.00	0.065	0.80
11546.0	16.32	2.98	0.18	7.576	0.269	0.069	0.96	0.80	0.00	0.069	0.72
11547.0	16.89	3.03	0.18	7.700	0.270	0.081	0.75	0.48	0.00	0.080	0.72
11548.0	15.39	2.89	0.19	7.350	0.270	0.091	0.76	0.36	0.00	0.091	0.72
11549.0	12.76	2.64	0.21	6.698	0.269	0.111	0.79	0.30	0.00	0.110	0.73
11550.0	10.12	2.34	0.23	5.955	0.270	0.124	0.91	0.28	0.00	0.123	0.74
11551.0	10.02	2.34	0.23	5.933	0.269	0.126	0.90	0.29	0.00	0.125	0.74
11552.0	10.00	2.33	0.23	5.927	0.270	0.128	0.89	0.31	0.00	0.127	0.74
11553.0	9.54	2.27	0.24	5.776	0.271	0.141	0.83	0.28	0.04	0.139	0.75
11554.0	9.22	2.24	0.24	5.690	0.270	0.144	0.84	0.31	0.04	0.143	0.75
11555.0	9.21	2.23	0.24	5.677	0.270	0.141	0.86	0.29	0.00	0.140	0.75
11556.0	9.35	2.26	0.24	5.733	0.269	0.142	0.84	0.29	0.04	0.142	0.74
11557.0	9.12	2.23	0.24	5.659	0.269	0.137	0.90	0.31	0.01	0.136	0.75

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11558.0	8.75	2.18	0.25	5.542	0.270	0.131	0.99	0.32	0.00	0.130	0.75
11559.0	8.77	2.18	0.25	5.542	0.270	0.129	1.00	0.32	0.00	0.128	0.75
11560.0	9.23	2.24	0.24	5.696	0.269	0.134	0.91	0.31	0.00	0.134	0.75
11561.0	9.66	2.30	0.24	5.829	0.269	0.129	0.91	0.32	0.00	0.129	0.74
11562.0	10.31	2.37	0.23	6.012	0.270	0.118	0.94	0.36	0.00	0.117	0.74
11563.0	11.43	2.40	0.21	6.156	0.285	0.102	1.00	0.43	0.00	0.088	0.78
11564.0	13.23	2.69	0.20	6.824	0.269	0.098	0.87	0.47	0.00	0.098	0.73
11565.0	14.08	2.76	0.20	7.019	0.270	0.109	0.70	0.41	0.00	0.108	0.73
11566.0	14.21	2.78	0.20	7.061	0.270	0.107	0.71	0.39	0.00	0.106	0.73
11567.0	13.35	2.70	0.20	6.847	0.270	0.103	0.81	0.45	0.00	0.102	0.73
11568.0	9.50	2.26	0.24	5.744	0.273	0.121	1.00	0.43	0.00	0.117	0.75
11569.0	7.37	1.89	0.26	4.883	0.291	0.150	1.00	0.39	0.00	0.123	0.82
11570.0	7.40	1.77	0.24	4.661	0.314	0.150	1.00	0.41	0.00	0.095	0.89
11571.0	11.42	2.31	0.20	5.990	0.298	0.102	1.00	0.72	0.00	0.078	0.83
11572.0	15.11	2.87	0.19	7.282	0.270	0.085	0.85	0.76	0.00	0.084	0.72
11573.0	14.47	2.80	0.19	7.183	0.270	0.096	0.79	0.58	0.00	0.095	0.73
11574.0	13.33	2.70	0.20	6.845	0.269	0.104	0.80	0.49	0.00	0.104	0.73
11575.0	13.05	2.66	0.20	6.766	0.270	0.104	0.83	0.48	0.00	0.103	0.73
11576.0	12.78	2.64	0.21	6.703	0.269	0.098	0.91	0.49	0.00	0.098	0.73
11577.0	12.80	2.64	0.21	6.712	0.269	0.099	0.90	0.47	0.00	0.099	0.73
11578.0	12.88	2.65	0.21	6.725	0.269	0.104	0.84	0.52	0.00	0.104	0.73
11579.0	11.90	2.55	0.21	6.463	0.270	0.100	0.97	0.59	0.00	0.100	0.74
11580.0	10.66	2.34	0.22	5.995	0.281	0.109	1.00	0.54	0.00	0.099	0.77
11581.0	10.33	2.32	0.22	5.935	0.278	0.112	1.00	0.52	0.00	0.104	0.76
11582.0	10.08	2.20	0.22	5.681	0.294	0.115	1.00	0.57	0.00	0.092	0.81
11583.0	10.20	2.15	0.21	5.595	0.304	0.114	1.00	0.59	0.00	0.082	0.85
11584.0	9.32	2.02	0.22	5.291	0.309	0.124	1.00	0.66	0.00	0.084	0.87
11585.0	10.14	2.21	0.22	5.722	0.292	0.115	1.00	0.60	0.00	0.093	0.81
11586.0	11.99	2.56	0.21	6.495	0.269	0.106	0.90	0.62	0.00	0.106	0.73
11587.0	12.89	2.65	0.21	6.729	0.269	0.127	0.66	0.45	0.00	0.126	0.73
11588.0	13.32	2.70	0.20	6.849	0.269	0.150	0.51	0.34	0.00	0.150	0.73
11589.0	13.69	2.74	0.20	6.942	0.269	0.150	0.49	0.37	0.00	0.150	0.73
11590.0	7.96	2.09	0.26	5.295	0.269	0.150	0.92	0.41	0.00	0.150	0.75
11591.0	7.31	1.95	0.27	4.985	0.279	0.150	1.00	0.46	0.00	0.138	0.78
11592.0	8.76	2.19	0.25	5.554	0.269	0.150	0.84	0.54	0.00	0.150	0.75
11594.0	8.66	2.18	0.25	5.521	0.269	0.150	0.85	0.63	0.00	0.150	0.75
11595.0	7.38	1.71	0.23	4.533	0.325	0.150	1.00	0.87	0.00	0.082	0.92
11596.0	7.24	1.56	0.22	4.204	0.349	0.150	1.00	1.00	0.00	0.052	0.95
11597.0	7.68	1.51	0.20	4.123	0.365	0.140	1.00	1.00	0.00	0.031	0.95
11598.0	10.68	1.87	0.17	5.051	0.353	0.103	1.00	1.00	0.00	0.033	0.95
11599.0	11.58	1.93	0.17	5.234	0.354	0.094	1.00	1.00	0.00	0.029	0.95
11600.0	9.24	1.61	0.17	4.422	0.371	0.115	1.00	1.00	0.00	0.019	0.95
11601.0	8.31	1.65	0.20	4.456	0.353	0.133	1.00	1.00	0.00	0.042	0.95
11602.0	7.87	1.65	0.21	4.431	0.346	0.140	1.00	1.00	0.00	0.053	0.95
11603.0	8.34	1.71	0.21	4.597	0.343	0.134	1.00	1.00	0.00	0.054	0.95
11604.0	14.07	2.76	0.20	7.022	0.270	0.095	0.83	0.96	0.00	0.094	0.73
11607.0	15.06	2.87	0.19	7.281	0.269	0.150	0.42	0.48	0.00	0.150	0.72

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11608.0	15.70	2.93	0.19	7.434	0.269	0.150	0.39	0.46	0.00	0.150	0.72
11609.0	12.97	2.66	0.21	6.758	0.269	0.150	0.53	0.47	0.00	0.150	0.73
11610.0	9.09	2.23	0.25	5.656	0.269	0.150	0.81	0.55	0.00	0.150	0.74
11612.0	7.78	2.06	0.27	5.234	0.269	0.150	0.94	0.61	0.00	0.150	0.75
11613.0	7.29	1.97	0.27	5.012	0.275	0.150	1.00	0.64	0.00	0.143	0.77
11614.0	7.39	1.85	0.25	4.806	0.300	0.150	1.00	0.61	0.00	0.113	0.84
11615.0	7.38	1.70	0.23	4.505	0.327	0.150	1.00	0.63	0.00	0.079	0.93
11616.0	7.37	1.69	0.23	4.485	0.329	0.150	1.00	0.54	0.00	0.077	0.94
11617.0	10.37	2.11	0.20	5.536	0.312	0.112	1.00	0.70	0.00	0.072	0.88
11618.0	12.56	2.47	0.20	6.381	0.291	0.092	1.00	0.73	0.00	0.076	0.80
11619.0	10.81	2.24	0.21	5.829	0.298	0.108	1.00	0.55	0.00	0.082	0.83
11620.0	10.85	2.18	0.20	5.713	0.308	0.107	1.00	0.55	0.00	0.073	0.86
11621.0	11.36	2.22	0.20	5.819	0.311	0.102	1.00	0.56	0.00	0.067	0.87
11622.0	12.81	2.46	0.19	6.369	0.296	0.090	1.00	0.59	0.00	0.070	0.82
11623.0	13.45	2.60	0.19	6.684	0.285	0.085	1.00	0.58	0.00	0.074	0.78
11624.0	12.26	2.47	0.20	6.351	0.287	0.095	1.00	0.48	0.00	0.081	0.79
11625.0	11.14	2.44	0.22	6.214	0.273	0.104	1.00	0.40	0.00	0.101	0.75
11626.0	12.47	2.61	0.21	6.625	0.269	0.150	0.56	0.31	0.00	0.150	0.73
11627.0	17.08	3.06	0.18	7.755	0.269	0.150	0.33	0.35	0.18	0.150	0.71
11628.0	16.14	2.97	0.18	7.539	0.269	0.150	0.37	0.35	0.05	0.150	0.72
11629.0	15.27	2.89	0.19	7.332	0.269	0.150	0.41	0.40	0.00	0.150	0.72
11630.0	10.15	2.36	0.23	5.979	0.269	0.150	0.72	0.49	0.00	0.150	0.74
11631.0	7.40	1.81	0.24	4.737	0.307	0.150	1.00	0.49	0.00	0.104	0.86
11632.0	7.38	1.70	0.23	4.515	0.326	0.150	1.00	0.49	0.00	0.080	0.93
11633.0	10.97	2.10	0.19	5.555	0.323	0.105	1.00	0.77	0.00	0.059	0.91
11634.0	13.64	2.60	0.19	6.697	0.287	0.084	1.00	0.76	0.00	0.071	0.78
11635.0	13.93	2.76	0.20	6.998	0.269	0.088	0.92	0.60	0.00	0.088	0.73
11636.0	12.99	2.66	0.20	6.749	0.270	0.095	0.92	0.52	0.00	0.095	0.73
11637.0	11.88	2.45	0.21	6.283	0.284	0.098	1.00	0.52	0.00	0.086	0.78
11638.0	11.27	2.33	0.21	6.018	0.293	0.103	1.00	0.53	0.00	0.083	0.81
11639.0	11.75	2.50	0.21	6.362	0.275	0.099	1.00	0.57	0.00	0.094	0.75
11640.0	11.55	2.46	0.21	6.278	0.277	0.101	1.00	0.59	0.00	0.094	0.76
11641.0	10.63	2.34	0.22	5.985	0.281	0.110	1.00	0.56	0.00	0.099	0.77
11642.0	10.17	2.26	0.22	5.816	0.284	0.114	1.00	0.55	0.00	0.100	0.79
11643.0	9.65	2.13	0.22	5.522	0.297	0.120	1.00	0.55	0.00	0.093	0.83
11644.0	8.67	1.92	0.22	5.045	0.314	0.132	1.00	0.52	0.00	0.084	0.88
11645.0	8.91	1.98	0.22	5.178	0.308	0.129	1.00	0.52	0.00	0.088	0.87
11646.0	9.45	2.04	0.22	5.338	0.308	0.122	1.00	0.57	0.00	0.084	0.86
11647.0	9.44	2.03	0.21	5.307	0.310	0.122	1.00	0.54	0.00	0.081	0.87
11648.0	9.58	2.09	0.22	5.452	0.301	0.121	1.00	0.52	0.00	0.089	0.84
11649.0	9.98	2.19	0.22	5.654	0.294	0.116	1.00	0.54	0.00	0.093	0.81
11650.0	9.84	2.14	0.22	5.566	0.298	0.118	1.00	0.52	0.00	0.090	0.83
11651.0	10.24	2.17	0.21	5.649	0.300	0.114	1.00	0.53	0.00	0.085	0.84
11652.0	10.56	2.21	0.21	5.741	0.300	0.110	1.00	0.55	0.00	0.083	0.83
11653.0	9.96	2.10	0.21	5.482	0.308	0.116	1.00	0.53	0.00	0.080	0.86
11654.0	10.41	2.19	0.21	5.693	0.301	0.112	1.00	0.59	0.00	0.083	0.84
11655.0	9.78	2.13	0.22	5.536	0.299	0.119	1.00	0.59	0.00	0.090	0.83

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11656.0	8.52	1.95	0.23	5.088	0.306	0.134	1.00	0.54	0.00	0.093	0.86
11657.0	8.12	1.91	0.24	4.985	0.305	0.139	1.00	0.55	0.00	0.099	0.86
11658.0	7.79	1.90	0.24	4.935	0.299	0.144	1.00	0.55	0.00	0.108	0.84
11659.0	7.37	1.88	0.26	4.870	0.293	0.150	1.00	0.50	0.00	0.121	0.82
11660.0	7.36	1.90	0.26	4.893	0.290	0.150	1.00	0.47	0.00	0.124	0.81
11661.0	7.34	1.92	0.26	4.939	0.284	0.150	1.00	0.42	0.00	0.131	0.80
11662.0	7.39	1.85	0.25	4.813	0.299	0.150	1.00	0.37	0.00	0.113	0.84
11663.0	7.40	1.80	0.24	4.710	0.309	0.150	1.00	0.35	0.00	0.101	0.87
11664.0	7.38	1.70	0.23	4.521	0.326	0.150	1.00	0.32	0.13	0.081	0.93
11665.0	10.90	2.21	0.20	5.777	0.304	0.107	1.00	0.55	0.00	0.076	0.85
11666.0	15.03	2.84	0.19	7.226	0.272	0.074	1.00	0.78	0.00	0.072	0.73
11667.0	16.34	2.90	0.18	7.482	0.281	0.066	1.00	0.86	0.00	0.060	0.76
11668.0	14.22	2.38	0.17	6.294	0.325	0.077	1.00	0.72	0.00	0.042	0.92
11669.0	15.06	2.86	0.19	7.266	0.270	0.078	0.95	0.57	0.00	0.077	0.73
11670.0	14.24	2.79	0.20	7.079	0.269	0.139	0.51	0.33	0.00	0.139	0.73
11671.0	11.68	2.53	0.22	6.412	0.269	0.150	0.61	0.38	0.08	0.150	0.73
11672.0	8.35	2.14	0.26	5.422	0.269	0.150	0.88	0.44	0.07	0.150	0.75
11673.0	8.25	2.12	0.26	5.390	0.269	0.150	0.89	0.49	0.00	0.150	0.75
11674.0	7.60	2.04	0.27	5.173	0.269	0.150	0.96	0.53	0.00	0.150	0.75
11675.0	8.76	2.19	0.25	5.554	0.269	0.150	0.84	0.55	0.00	0.150	0.75
11676.0	9.54	2.28	0.24	5.796	0.269	0.150	0.77	0.54	0.00	0.150	0.74
11677.0	10.54	2.40	0.23	6.092	0.269	0.150	0.69	0.53	0.00	0.150	0.74
11678.0	9.66	2.30	0.24	5.832	0.269	0.150	0.76	0.53	0.00	0.150	0.74
11679.0	8.25	2.12	0.26	5.390	0.269	0.150	0.89	0.53	0.00	0.150	0.75
11680.0	8.06	2.10	0.26	5.327	0.269	0.150	0.91	0.53	0.00	0.150	0.75
11681.0	8.55	2.16	0.25	5.488	0.269	0.150	0.86	0.51	0.00	0.150	0.75
11682.0	7.78	2.06	0.27	5.234	0.269	0.150	0.94	0.52	0.00	0.150	0.75
11683.0	9.20	2.24	0.24	5.690	0.269	0.150	0.80	0.53	0.00	0.150	0.74
11684.0	10.68	2.42	0.23	6.131	0.269	0.150	0.68	0.50	0.00	0.150	0.74
11688.0	17.08	3.06	0.18	7.755	0.269	0.150	0.33	0.45	0.12	0.150	0.72
11689.0	17.83	3.12	0.18	7.924	0.269	0.150	0.30	0.44	0.13	0.150	0.71
11690.0	15.92	2.95	0.19	7.486	0.269	0.150	0.38	0.47	0.00	0.150	0.72
11691.0	13.32	2.70	0.20	6.849	0.269	0.150	0.51	0.41	0.00	0.150	0.73
11692.0	8.40	2.11	0.25	5.373	0.275	0.135	1.00	0.41	0.00	0.127	0.77
11693.0	7.51	2.03	0.27	5.143	0.269	0.150	0.97	0.38	0.00	0.150	0.75
11694.0	8.87	2.20	0.25	5.588	0.269	0.150	0.83	0.42	0.00	0.150	0.75
11695.0	7.27	1.98	0.27	5.041	0.271	0.150	1.00	0.43	0.00	0.148	0.76
11696.0	7.31	1.96	0.27	4.994	0.277	0.150	1.00	0.40	0.00	0.140	0.78
11697.0	11.79	2.53	0.21	6.433	0.270	0.123	0.77	0.47	0.00	0.122	0.74
11698.0	13.36	2.63	0.20	6.730	0.279	0.086	1.00	0.70	0.00	0.079	0.76
11699.0	11.45	2.20	0.19	5.781	0.315	0.101	1.00	0.67	0.00	0.063	0.88
11700.0	7.39	1.72	0.23	4.547	0.324	0.150	1.00	0.37	0.02	0.083	0.92
11701.0	7.35	1.92	0.26	4.928	0.286	0.150	1.00	0.36	0.00	0.129	0.80
11702.0	9.65	2.29	0.24	5.820	0.270	0.121	0.98	0.45	0.00	0.121	0.74
11703.0	13.27	2.69	0.20	6.831	0.269	0.096	0.89	0.56	0.00	0.096	0.73
11704.0	13.98	2.76	0.20	7.011	0.269	0.085	0.95	0.57	0.00	0.085	0.73
11705.0	10.53	2.28	0.22	5.869	0.288	0.111	1.00	0.39	0.00	0.093	0.80

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11706.0	7.40	1.75	0.24	4.608	0.319	0.150	1.00	0.21	0.18	0.090	0.90
11707.0	7.34	1.93	0.26	4.948	0.283	0.150	1.00	0.31	0.00	0.132	0.79
11708.0	8.35	2.14	0.26	5.422	0.269	0.150	0.88	0.36	0.00	0.150	0.75
11709.0	11.70	2.52	0.22	6.409	0.270	0.127	0.75	0.42	0.00	0.126	0.74
11710.0	14.95	2.86	0.19	7.251	0.269	0.108	0.65	0.47	0.00	0.108	0.72
11711.0	15.61	2.90	0.19	7.370	0.272	0.106	0.62	0.41	0.13	0.103	0.73
11712.0	15.69	2.91	0.19	7.401	0.271	0.107	0.61	0.35	0.23	0.104	0.73
11713.0	15.73	2.91	0.19	7.410	0.271	0.102	0.64	0.36	0.30	0.100	0.73
11714.0	15.73	2.93	0.19	7.432	0.269	0.100	0.66	0.38	0.28	0.099	0.72
11715.0	16.05	2.96	0.18	7.513	0.269	0.097	0.66	0.43	0.16	0.097	0.72
11716.0	12.13	2.47	0.20	6.342	0.285	0.096	1.00	0.50	0.00	0.083	0.78
11717.0	7.71	1.74	0.23	4.611	0.327	0.145	1.02	0.29	0.49	0.076	0.93
11718.0	9.13	2.14	0.23	5.503	0.285	0.126	1.00	0.40	0.01	0.109	0.79
11719.0	13.33	2.69	0.20	6.831	0.270	0.136	0.58	0.42	0.00	0.134	0.73
11720.0	14.40	2.79	0.19	7.095	0.271	0.146	0.47	0.34	0.00	0.144	0.73
11721.0	14.89	2.83	0.19	7.206	0.271	0.119	0.58	0.36	0.10	0.116	0.73
11722.0	15.57	2.91	0.19	7.391	0.270	0.112	0.58	0.31	0.25	0.111	0.72
11723.0	15.96	2.93	0.18	7.460	0.272	0.112	0.56	0.26	0.30	0.109	0.73
11724.0	15.76	2.91	0.18	7.403	0.272	0.106	0.61	0.25	0.25	0.103	0.73
11725.0	15.20	2.88	0.19	7.305	0.270	0.103	0.67	0.24	0.20	0.102	0.72
11726.0	15.07	2.85	0.19	7.243	0.272	0.113	0.61	0.19	0.36	0.110	0.73
11727.0	14.58	2.80	0.19	7.130	0.272	0.110	0.66	0.20	0.30	0.108	0.73
11728.0	13.11	2.67	0.20	6.782	0.270	0.108	0.79	0.25	0.18	0.107	0.73
11729.0	13.52	2.71	0.20	6.880	0.270	0.106	0.77	0.33	0.11	0.105	0.73
11730.0	14.74	2.84	0.19	7.202	0.269	0.099	0.74	0.41	0.00	0.098	0.72
11731.0	13.33	2.70	0.20	6.844	0.269	0.097	0.87	0.48	0.00	0.097	0.73
11732.0	11.95	2.53	0.21	6.440	0.273	0.097	1.00	0.57	0.00	0.094	0.75
11733.0	12.66	2.60	0.21	6.628	0.273	0.091	1.00	0.66	0.00	0.088	0.74
11734.0	14.08	2.77	0.20	7.036	0.269	0.084	0.95	0.72	0.00	0.084	0.73
11735.0	13.56	2.71	0.20	6.894	0.270	0.096	0.86	0.59	0.00	0.095	0.73
11736.0	13.66	2.73	0.20	6.929	0.269	0.102	0.79	0.52	0.00	0.102	0.73
11737.0	15.35	2.89	0.19	7.341	0.270	0.098	0.70	0.46	0.00	0.097	0.72
11738.0	13.57	2.72	0.20	6.905	0.269	0.091	0.92	0.46	0.00	0.090	0.73
11739.0	11.23	2.40	0.21	6.149	0.281	0.104	1.00	0.45	0.00	0.093	0.77
11740.0	11.28	2.35	0.21	6.053	0.290	0.103	1.00	0.52	0.00	0.086	0.80
11741.0	12.79	2.61	0.20	6.655	0.273	0.090	1.00	0.64	0.00	0.087	0.74
11742.0	12.47	2.61	0.21	6.622	0.269	0.093	1.00	0.66	0.00	0.093	0.73
11743.0	11.62	2.48	0.21	6.323	0.275	0.100	1.00	0.64	0.00	0.095	0.75
11744.0	11.09	2.46	0.22	6.237	0.270	0.105	1.00	0.61	0.00	0.104	0.74
11745.0	11.34	2.48	0.22	6.304	0.270	0.116	0.87	0.53	0.00	0.114	0.74
11746.0	11.10	2.44	0.22	6.208	0.273	0.105	1.00	0.59	0.00	0.102	0.75
11747.0	11.43	2.33	0.20	6.043	0.294	0.102	1.00	0.62	0.00	0.081	0.81
11748.0	12.79	2.53	0.20	6.511	0.285	0.090	1.00	0.67	0.00	0.078	0.78
11749.0	13.41	2.70	0.20	6.864	0.269	0.086	1.00	0.66	0.00	0.085	0.73
11750.0	10.67	2.27	0.21	5.865	0.292	0.109	1.00	0.67	0.00	0.088	0.81
11751.0	10.64	2.17	0.20	5.682	0.307	0.109	1.00	0.74	0.00	0.076	0.86
11752.0	12.66	2.42	0.19	6.288	0.300	0.091	1.00	0.89	0.00	0.068	0.83
11753.0	14.92	2.85	0.19	7.234	0.270	0.085	0.87	0.83	0.00	0.084	0.73

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11754.0	12.71	2.63	0.21	6.682	0.269	0.095	0.95	0.68	0.00	0.095	0.73
11755.0	8.71	2.10	0.24	5.395	0.283	0.131	1.00	0.44	0.00	0.116	0.79
11756.0	9.70	2.30	0.24	5.836	0.269	0.122	0.97	0.47	0.00	0.121	0.74
11757.0	13.25	2.69	0.20	6.828	0.269	0.106	0.79	0.54	0.00	0.106	0.73
11758.0	15.16	2.88	0.19	7.301	0.269	0.078	0.94	0.75	0.00	0.077	0.72
11759.0	15.71	2.91	0.19	7.400	0.272	0.070	1.00	0.78	0.00	0.068	0.73
11760.0	13.95	2.69	0.19	6.878	0.279	0.082	1.00	0.58	0.00	0.075	0.76
11761.0	13.62	2.72	0.20	6.911	0.270	0.090	0.92	0.47	0.00	0.089	0.73
11762.0	14.60	2.82	0.19	7.162	0.269	0.092	0.82	0.47	0.00	0.091	0.73
11763.0	15.17	2.88	0.19	7.301	0.269	0.082	0.88	0.57	0.00	0.082	0.72
11764.0	14.28	2.79	0.20	7.089	0.269	0.086	0.91	0.63	0.00	0.086	0.73
11765.0	12.15	2.57	0.21	6.532	0.269	0.101	0.94	0.50	0.00	0.100	0.73
11766.0	11.80	2.54	0.22	6.443	0.269	0.104	0.94	0.50	0.00	0.104	0.73
11767.0	12.31	2.59	0.21	6.572	0.270	0.105	0.88	0.55	0.00	0.104	0.73
11768.0	12.38	2.59	0.21	6.588	0.270	0.096	0.97	0.61	0.00	0.095	0.74
11769.0	13.84	2.74	0.20	6.970	0.270	0.090	0.90	0.67	0.00	0.090	0.73
11770.0	15.77	2.93	0.19	7.447	0.269	0.075	0.92	0.82	0.00	0.075	0.72
11771.0	16.77	3.03	0.18	7.682	0.269	0.069	0.92	0.85	0.00	0.069	0.72
11772.0	17.20	3.06	0.18	7.777	0.269	0.082	0.71	0.63	0.00	0.082	0.72
11773.0	17.14	3.06	0.18	7.763	0.269	0.093	0.62	0.51	0.00	0.092	0.72
11774.0	14.51	2.81	0.19	7.131	0.270	0.091	0.83	0.46	0.00	0.090	0.73
11775.0	11.97	2.55	0.21	6.485	0.269	0.107	0.89	0.35	0.00	0.107	0.74
11776.0	11.89	2.55	0.21	6.463	0.269	0.112	0.85	0.37	0.00	0.112	0.74
11777.0	11.48	2.50	0.22	6.344	0.270	0.104	0.97	0.47	0.00	0.103	0.74
11778.0	9.98	2.17	0.22	5.617	0.297	0.116	1.00	0.43	0.00	0.090	0.83
11779.0	11.29	2.22	0.20	5.819	0.309	0.103	1.00	0.79	0.00	0.069	0.86
11780.0	12.67	2.23	0.18	5.917	0.326	0.089	1.00	0.80	0.00	0.047	0.93
11781.0	14.86	2.56	0.17	6.690	0.308	0.074	1.00	0.93	0.00	0.050	0.86
11782.0	11.85	2.54	0.21	6.453	0.269	0.105	0.92	0.57	0.00	0.105	0.74
11783.0	8.88	2.20	0.25	5.591	0.269	0.139	0.91	0.49	0.00	0.138	0.75
11784.0	7.26	1.99	0.27	5.052	0.269	0.150	1.00	0.52	0.00	0.150	0.75
11785.0	7.29	1.97	0.27	5.015	0.274	0.150	1.00	0.58	0.00	0.143	0.77
11786.0	8.35	2.14	0.26	5.482	0.269	0.150	0.88	0.57	0.00	0.150	0.75
11787.0	7.96	2.09	0.26	5.295	0.269	0.150	0.92	0.53	0.00	0.150	0.75
11788.0	7.36	1.90	0.26	4.894	0.290	0.150	1.00	0.50	0.00	0.124	0.81
11789.0	9.23	2.20	0.24	5.683	0.276	0.124	1.00	0.62	0.00	0.117	0.77
11790.0	9.61	2.25	0.23	5.745	0.276	0.120	1.00	0.65	0.00	0.113	0.76
11791.0	7.40	1.80	0.24	4.715	0.309	0.150	1.00	0.54	0.00	0.101	0.87
11792.0	7.39	1.85	0.25	4.815	0.299	0.150	1.00	0.57	0.00	0.114	0.84
11793.0	8.78	2.19	0.25	5.554	0.269	0.145	0.87	0.57	0.00	0.145	0.75
11794.0	9.09	2.23	0.25	5.656	0.269	0.150	0.81	0.41	0.00	0.150	0.75
11795.0	8.66	2.18	0.25	5.521	0.269	0.150	0.85	0.47	0.00	0.150	0.75
11796.0	7.37	1.88	0.26	4.868	0.293	0.150	1.00	0.47	0.00	0.121	0.82
11797.0	8.14	1.86	0.23	4.896	0.313	0.139	1.00	0.54	0.00	0.089	0.88
11798.0	13.07	2.55	0.20	6.568	0.286	0.088	1.00	0.86	0.00	0.076	0.78
11799.0	14.44	2.59	0.18	6.736	0.298	0.078	1.00	1.00	0.00	0.059	0.82
11800.0	12.18	1.69	0.14	4.702	0.391	0.076	1.00	1.00	0.00	0.001	0.96
11801.0	12.18	1.69	0.14	4.702	0.391	0.076	1.00	1.00	0.00	0.001	0.96

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DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11802.0	16.22	2.41	0.15	6.459	0.340	0.061	1.00	1.00	0.00	0.026	0.96
11803.0	18.21	3.15	0.17	7.989	0.270	0.065	0.85	1.00	0.00	0.064	0.72
11804.0	16.27	2.98	0.18	7.567	0.269	0.074	0.89	0.97	0.00	0.074	0.72
11805.0	15.23	2.87	0.19	7.300	0.270	0.097	0.72	0.66	0.04	0.095	0.73
11806.0	15.11	2.87	0.19	7.278	0.270	0.100	0.70	0.57	0.14	0.099	0.73
11807.0	15.38	2.90	0.19	7.354	0.269	0.101	0.67	0.48	0.10	0.101	0.72
11808.0	13.52	2.71	0.20	6.877	0.271	0.108	0.75	0.41	0.10	0.107	0.73
11809.0	13.83	2.74	0.20	6.968	0.270	0.108	0.73	0.37	0.11	0.107	0.73
11810.0	13.97	2.75	0.20	6.993	0.270	0.110	0.70	0.39	0.21	0.109	0.73
11811.0	13.44	2.70	0.20	6.867	0.270	0.106	0.78	0.47	0.14	0.105	0.73
11812.0	13.98	2.76	0.20	7.014	0.269	0.090	0.89	0.61	0.00	0.090	0.73
11813.0	13.18	2.68	0.20	6.807	0.269	0.094	0.92	0.61	0.00	0.094	0.73
11814.0	11.65	2.52	0.22	6.392	0.270	0.109	0.90	0.51	0.00	0.108	0.74
11815.0	13.36	2.70	0.20	6.855	0.269	0.107	0.77	0.51	0.11	0.107	0.73
11816.0	14.13	2.76	0.20	7.028	0.271	0.109	0.70	0.46	0.24	0.107	0.73
11817.0	13.65	2.71	0.20	6.901	0.271	0.108	0.74	0.39	0.18	0.106	0.74
11818.0	12.69	2.63	0.21	6.669	0.270	0.106	0.84	0.38	0.09	0.105	0.73
11819.0	12.53	2.61	0.21	6.628	0.270	0.097	0.95	0.43	0.02	0.096	0.73
11820.0	14.19	2.78	0.20	7.058	0.270	0.084	0.95	0.50	0.00	0.083	0.73
11821.0	16.58	3.00	0.18	7.627	0.270	0.075	0.85	0.55	0.00	0.074	0.72
11822.0	17.89	3.12	0.17	7.916	0.270	0.068	0.83	0.58	0.00	0.067	0.72
11823.0	16.97	3.05	0.18	7.729	0.269	0.072	0.85	0.51	0.00	0.072	0.72
11824.0	16.75	3.03	0.18	7.678	0.269	0.085	0.72	0.76	0.00	0.085	0.72
11825.0	13.54	2.72	0.20	6.902	0.269	0.085	0.99	0.44	0.00	0.085	0.73
11826.0	13.31	2.68	0.20	6.820	0.271	0.086	1.00	0.41	0.00	0.085	0.73
11827.0	9.02	1.89	0.21	5.013	0.325	0.127	1.00	0.22	0.54	0.069	0.92
11828.0	10.41	2.18	0.21	5.681	0.302	0.112	1.00	0.33	0.21	0.082	0.84
11829.0	15.39	2.89	0.19	7.341	0.270	0.101	0.67	0.50	0.00	0.100	0.73
11830.0	11.45	2.49	0.22	6.335	0.270	0.102	1.00	0.56	0.00	0.101	0.74
11831.0	9.51	2.00	0.21	5.266	0.315	0.121	1.00	0.53	0.00	0.075	0.89
11832.0	11.58	2.12	0.18	5.629	0.328	0.098	1.00	0.99	0.00	0.051	0.94
11833.0	11.75	2.14	0.18	5.678	0.328	0.097	1.00	1.00	0.00	0.051	0.93
11834.0	10.42	2.05	0.20	5.426	0.322	0.111	1.00	0.85	0.00	0.063	0.91
11835.0	12.06	2.37	0.20	6.147	0.299	0.096	1.00	0.94	0.00	0.073	0.83
11836.0	13.36	2.38	0.18	6.255	0.314	0.085	1.00	1.00	0.00	0.053	0.88
11837.0	14.14	2.21	0.16	5.956	0.344	0.074	1.00	1.00	0.00	0.029	0.96
11838.0	17.18	2.78	0.16	7.260	0.304	0.060	1.00	1.00	0.00	0.043	0.84
11839.0	17.14	2.95	0.17	7.564	0.283	0.061	1.00	1.00	0.00	0.054	0.76
11840.0	14.07	2.41	0.17	6.356	0.319	0.079	1.00	1.00	0.00	0.047	0.90
11841.0	11.18	1.98	0.18	5.314	0.343	0.100	1.00	1.00	0.00	0.040	0.96
11842.0	11.95	2.07	0.17	5.542	0.340	0.093	1.00	0.98	0.00	0.039	0.96
11843.0	17.40	2.96	0.17	7.611	0.284	0.060	1.00	1.00	0.00	0.053	0.76
11844.0	18.34	3.16	0.17	8.032	0.269	0.080	0.65	0.67	0.00	0.080	0.71
11845.0	14.30	2.79	0.20	7.092	0.269	0.095	0.81	0.52	0.00	0.095	0.73
11846.0	9.77	2.10	0.21	5.469	0.304	0.119	1.00	0.41	0.00	0.084	0.85
11847.0	9.68	2.04	0.21	5.345	0.313	0.119	1.00	0.46	0.15	0.077	0.88
11848.0	13.42	2.71	0.20	6.870	0.269	0.092	0.92	0.62	0.00	0.092	0.73
11849.0	14.24	2.78	0.20	7.066	0.270	0.091	0.86	0.63	0.00	0.090	0.73

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DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11850.0	14.52	2.81	0.19	7.142	0.269	0.101	0.74	0.58	0.02	0.100	0.73
11851.0	14.35	2.79	0.19	7.097	0.270	0.095	0.81	0.62	0.10	0.094	0.73
11852.0	14.69	2.83	0.19	7.187	0.269	0.092	0.81	0.64	0.09	0.092	0.72
11853.0	15.86	2.94	0.19	7.470	0.269	0.091	0.73	0.65	0.07	0.090	0.72
11854.0	16.54	3.00	0.18	7.622	0.269	0.077	0.83	0.71	0.00	0.076	0.72
11855.0	16.47	2.99	0.18	7.598	0.270	0.077	0.83	0.74	0.00	0.076	0.72
11856.0	16.59	3.00	0.18	7.626	0.270	0.087	0.71	0.63	0.00	0.086	0.72
11857.0	16.99	3.04	0.18	7.723	0.270	0.084	0.71	0.63	0.00	0.083	0.72
11858.0	16.92	3.03	0.18	7.703	0.270	0.090	0.66	0.57	0.00	0.089	0.72
11859.0	16.97	3.03	0.18	7.709	0.270	0.093	0.63	0.55	0.05	0.092	0.72
11860.0	16.42	2.99	0.18	7.599	0.269	0.087	0.72	0.60	0.00	0.087	0.72
11861.0	15.79	2.92	0.19	7.431	0.271	0.094	0.70	0.57	0.08	0.093	0.73
11862.0	15.32	2.88	0.19	7.311	0.271	0.095	0.73	0.59	0.07	0.093	0.73
11863.0	15.70	2.92	0.19	7.420	0.270	0.081	0.85	0.70	0.00	0.080	0.72
11864.0	16.29	2.91	0.18	7.432	0.279	0.066	1.00	0.84	0.00	0.061	0.75
11865.0	15.33	2.78	0.18	7.137	0.284	0.072	1.00	0.72	0.00	0.063	0.77
11866.0	15.71	2.91	0.19	7.395	0.272	0.070	1.00	0.66	0.00	0.068	0.73
11867.0	17.22	3.06	0.18	7.780	0.269	0.069	0.88	0.62	0.00	0.068	0.72
11868.0	17.31	3.07	0.18	7.791	0.270	0.065	0.93	0.64	0.00	0.064	0.72
11869.0	17.07	3.03	0.18	7.715	0.272	0.062	1.00	0.69	0.00	0.061	0.72
11870.0	16.98	3.04	0.18	7.723	0.269	0.067	0.93	1.00	0.00	0.066	0.72
11871.0	13.65	2.63	0.19	6.745	0.284	0.084	1.00	1.00	0.00	0.074	0.77
11872.0	9.37	1.95	0.21	5.157	0.321	0.123	1.00	1.00	0.00	0.071	0.91
11873.0	7.85	1.74	0.22	4.636	0.328	0.143	1.00	1.00	0.00	0.074	0.94
11874.0	7.51	1.72	0.23	4.559	0.326	0.148	1.00	1.00	0.00	0.079	0.93
11875.0	8.01	1.83	0.23	4.826	0.316	0.141	1.00	0.96	0.00	0.087	0.89
11876.0	10.71	2.32	0.22	5.965	0.284	0.109	1.00	0.94	0.00	0.095	0.79
11877.0	10.02	2.06	0.21	5.408	0.315	0.115	1.00	0.77	0.00	0.072	0.89
11878.0	8.72	1.70	0.19	4.588	0.351	0.127	1.00	0.63	0.00	0.042	0.96
11879.0	10.87	1.88	0.17	5.087	0.353	0.101	1.00	0.86	0.00	0.032	0.96
11880.0	14.80	2.43	0.16	6.436	0.324	0.073	1.00	0.95	0.00	0.040	0.92
11881.0	16.31	2.94	0.18	7.503	0.274	0.066	1.00	0.75	0.00	0.063	0.74
11882.0	17.06	3.05	0.18	7.749	0.269	0.083	0.71	0.53	0.00	0.083	0.72
11883.0	17.71	3.11	0.18	7.885	0.270	0.086	0.64	0.49	0.03	0.085	0.72
11884.0	16.60	3.00	0.18	7.620	0.271	0.089	0.69	0.42	0.04	0.088	0.72
11885.0	15.90	2.94	0.19	7.475	0.269	0.091	0.72	0.48	0.06	0.091	0.72
11886.0	15.47	2.91	0.19	7.381	0.269	0.099	0.68	0.44	0.15	0.099	0.72
11887.0	16.02	2.96	0.18	7.503	0.269	0.098	0.65	0.43	0.12	0.098	0.72
11888.0	15.91	2.93	0.18	7.455	0.271	0.091	0.72	0.45	0.02	0.090	0.73
11889.0	15.84	2.94	0.19	7.458	0.269	0.087	0.77	0.47	0.00	0.086	0.72
11890.0	16.43	3.00	0.18	7.604	0.269	0.089	0.70	0.44	0.00	0.089	0.72
11891.0	16.86	3.03	0.18	7.696	0.269	0.085	0.71	0.45	0.00	0.085	0.72
11892.0	16.98	3.04	0.18	7.720	0.270	0.082	0.73	0.44	0.00	0.082	0.72
11893.0	18.11	3.13	0.17	7.962	0.270	0.074	0.73	0.47	0.00	0.073	0.72
11894.0	18.91	3.21	0.17	8.148	0.270	0.075	0.66	0.44	0.00	0.074	0.71
11895.0	17.77	3.11	0.18	7.900	0.269	0.078	0.71	0.42	0.00	0.078	0.72
11896.0	17.03	3.04	0.18	7.715	0.271	0.080	0.75	0.40	0.03	0.079	0.72
11897.0	17.58	3.08	0.18	7.839	0.271	0.079	0.72	0.41	0.01	0.077	0.72

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DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 1046	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11898.0	18.22	3.15	0.17	7.990	0.270	0.080	0.66	0.39	0.00	0.079	0.72
11899.0	18.49	3.18	0.17	8.067	0.269	0.084	0.60	0.39	0.06	0.084	0.71
11900.0	19.41	3.25	0.17	8.251	0.270	0.084	0.54	0.35	0.07	0.083	0.71
11901.0	18.53	3.18	0.17	8.065	0.270	0.083	0.61	0.39	0.02	0.082	0.71
11902.0	16.00	2.95	0.18	7.488	0.270	0.087	0.76	0.39	0.00	0.086	0.72
11903.0	14.60	2.82	0.19	7.152	0.270	0.099	0.75	0.36	0.00	0.098	0.73
11904.0	15.63	2.92	0.19	7.407	0.270	0.104	0.63	0.36	0.19	0.104	0.72
11905.0	14.66	2.82	0.19	7.162	0.271	0.111	0.65	0.36	0.25	0.109	0.73
11906.0	13.03	2.66	0.20	6.762	0.270	0.114	0.74	0.38	0.16	0.113	0.73
11907.0	12.09	2.57	0.21	6.514	0.270	0.109	0.86	0.42	0.00	0.109	0.74
11908.0	11.49	2.50	0.22	6.351	0.269	0.106	0.95	0.48	0.00	0.105	0.74
11909.0	11.11	2.41	0.22	6.159	0.277	0.105	1.00	0.51	0.00	0.098	0.76
11910.0	12.52	2.61	0.21	6.621	0.270	0.093	1.00	0.58	0.00	0.091	0.74
11911.0	12.52	2.60	0.21	6.612	0.271	0.093	1.00	0.52	0.00	0.091	0.74
11912.0	12.25	2.56	0.21	6.522	0.273	0.095	1.00	0.49	0.00	0.092	0.74
11913.0	14.89	2.85	0.19	7.233	0.269	0.096	0.75	0.50	0.06	0.096	0.72
11914.0	15.89	2.94	0.19	7.472	0.269	0.089	0.74	0.51	0.00	0.089	0.72
11915.0	12.26	2.52	0.21	6.441	0.280	0.095	1.00	0.42	0.00	0.086	0.77
11916.0	9.64	2.20	0.23	5.645	0.286	0.120	1.00	0.34	0.00	0.104	0.79
11917.0	12.88	2.64	0.21	6.718	0.270	0.116	0.74	0.36	0.08	0.114	0.73
11918.0	14.53	2.80	0.19	7.115	0.272	0.111	0.66	0.31	0.12	0.108	0.73
11919.0	14.27	2.79	0.20	7.086	0.269	0.096	0.80	0.34	0.00	0.096	0.73
11920.0	15.12	2.87	0.19	7.292	0.269	0.094	0.75	0.36	0.03	0.094	0.72
11921.0	16.30	2.98	0.18	7.567	0.269	0.085	0.75	0.39	0.03	0.085	0.72
11922.0	17.94	3.12	0.17	7.934	0.270	0.084	0.64	0.40	0.03	0.083	0.72
11923.0	16.50	3.00	0.18	7.609	0.270	0.089	0.70	0.36	0.00	0.088	0.72
11924.0	15.07	2.86	0.19	7.265	0.270	0.095	0.75	0.36	0.00	0.094	0.73
11925.0	14.01	2.76	0.20	7.009	0.270	0.081	1.00	0.50	0.00	0.081	0.73
11926.0	16.09	2.96	0.18	7.520	0.269	0.077	0.86	0.59	0.00	0.077	0.72
11927.0	16.53	3.00	0.18	7.626	0.269	0.074	0.86	0.66	0.00	0.074	0.72
11928.0	13.84	2.74	0.20	6.968	0.270	0.083	0.99	0.60	0.00	0.083	0.73
11929.0	14.12	2.78	0.20	7.047	0.269	0.083	0.97	0.57	0.00	0.083	0.73
11930.0	16.00	2.95	0.18	7.499	0.269	0.076	0.88	0.54	0.00	0.076	0.72
11931.0	17.72	3.10	0.17	7.878	0.270	0.075	0.75	0.42	0.00	0.074	0.72
11932.0	17.71	3.10	0.18	7.877	0.270	0.070	0.81	0.39	0.00	0.070	0.72
11933.0	18.25	3.15	0.17	8.001	0.270	0.084	0.62	0.35	0.00	0.083	0.72
11934.0	18.54	3.17	0.17	8.050	0.271	0.104	0.46	0.27	0.05	0.102	0.72
11935.0	17.46	3.09	0.18	7.838	0.269	0.107	0.50	0.27	0.00	0.107	0.72
11936.0	12.08	2.29	0.19	6.010	0.310	0.095	1.00	0.32	0.00	0.064	0.87
11937.0	11.57	2.03	0.18	5.453	0.340	0.097	1.00	0.37	0.24	0.041	0.96
11938.0	17.79	3.12	0.18	7.913	0.269	0.065	0.89	0.57	0.00	0.064	0.71
11939.0	18.25	3.15	0.17	7.996	0.270	0.079	0.67	0.49	0.00	0.078	0.72
11940.0	15.65	2.92	0.19	7.421	0.269	0.088	0.77	0.48	0.01	0.088	0.72
11941.0	16.96	3.04	0.18	7.723	0.269	0.093	0.63	0.46	0.07	0.093	0.72
11942.0	17.19	3.06	0.18	7.764	0.270	0.085	0.68	0.50	0.00	0.085	0.72
11943.0	16.72	3.02	0.18	7.664	0.269	0.086	0.71	0.51	0.00	0.086	0.72
11944.0	16.37	2.97	0.18	7.557	0.271	0.090	0.70	0.56	0.02	0.088	0.73
11945.0	16.55	2.99	0.18	7.602	0.271	0.092	0.67	0.51	0.02	0.090	0.72

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11946.0	16.46	2.98	0.18	7.572	0.272	0.096	0.64	0.50	0.07	0.094	0.73
11947.0	15.79	2.94	0.19	7.483	0.269	0.099	0.66	0.48	0.11	0.099	0.72
11948.0	14.94	2.86	0.19	7.252	0.269	0.096	0.75	0.48	0.10	0.096	0.72
11949.0	14.79	2.84	0.19	7.211	0.269	0.084	0.89	0.51	0.00	0.084	0.73
11950.0	15.83	2.94	0.19	7.453	0.270	0.080	0.85	0.49	0.00	0.079	0.72
11951.0	16.87	3.02	0.18	7.682	0.271	0.087	0.69	0.42	0.04	0.086	0.72
11952.0	18.20	3.14	0.17	7.986	0.270	0.078	0.68	0.42	0.00	0.077	0.72
11953.0	16.53	3.00	0.18	7.624	0.269	0.067	0.97	0.54	0.00	0.067	0.72
11954.0	14.62	2.82	0.19	7.165	0.269	0.081	0.95	0.57	0.00	0.080	0.73
11955.0	16.78	3.02	0.18	7.667	0.270	0.089	0.68	0.62	0.00	0.088	0.72
11956.0	16.30	2.98	0.18	7.574	0.269	0.105	0.58	0.52	0.00	0.105	0.72
11957.0	12.62	2.62	0.21	6.652	0.270	0.110	0.81	0.52	0.00	0.109	0.74
11958.0	12.34	2.60	0.21	6.588	0.269	0.103	0.90	0.58	0.02	0.103	0.73
11959.0	14.78	2.84	0.19	7.201	0.270	0.102	0.71	0.46	0.04	0.101	0.73
11960.0	15.51	2.91	0.19	7.388	0.269	0.090	0.76	0.56	0.00	0.090	0.72
11961.0	15.87	2.93	0.18	7.454	0.270	0.083	0.81	0.62	0.00	0.082	0.72
11962.0	15.58	2.92	0.19	7.402	0.269	0.087	0.79	0.59	0.00	0.087	0.72
11963.0	15.22	2.88	0.19	7.313	0.269	0.095	0.74	0.51	0.01	0.094	0.72
11964.0	15.95	2.95	0.19	7.491	0.269	0.089	0.74	0.52	0.00	0.089	0.72
11965.0	15.91	2.95	0.19	7.477	0.269	0.093	0.70	0.48	0.06	0.093	0.72
11966.0	16.01	2.96	0.18	7.508	0.269	0.096	0.67	0.45	0.11	0.096	0.72
11967.0	15.45	2.89	0.19	7.337	0.272	0.096	0.71	0.44	0.11	0.094	0.73
11968.0	15.93	2.94	0.18	7.466	0.271	0.090	0.73	0.45	0.03	0.089	0.73
11969.0	16.32	2.99	0.18	7.578	0.269	0.076	0.85	0.53	0.00	0.076	0.72
11970.0	16.43	3.00	0.18	7.602	0.269	0.077	0.84	0.53	0.00	0.076	0.72
11971.0	16.41	2.99	0.18	7.589	0.270	0.083	0.77	0.48	0.00	0.082	0.72
11972.0	16.50	2.99	0.18	7.598	0.270	0.089	0.70	0.44	0.00	0.088	0.72
11973.0	16.52	3.00	0.18	7.623	0.269	0.087	0.71	0.43	0.00	0.087	0.72
11974.0	15.29	2.89	0.19	7.334	0.269	0.091	0.77	0.45	0.00	0.091	0.72
11975.0	15.53	2.91	0.19	7.393	0.269	0.089	0.77	0.43	0.00	0.089	0.72
11976.0	17.16	3.05	0.18	7.752	0.270	0.087	0.67	0.45	0.00	0.086	0.72
11977.0	16.90	3.03	0.18	7.699	0.270	0.086	0.70	0.48	0.00	0.085	0.72
11978.0	16.27	2.97	0.18	7.544	0.271	0.092	0.69	0.44	0.01	0.090	0.72
11979.0	16.15	2.95	0.18	7.509	0.271	0.097	0.65	0.40	0.16	0.095	0.73
11980.0	15.76	2.91	0.18	7.411	0.272	0.106	0.61	0.34	0.25	0.104	0.73
11981.0	15.05	2.87	0.19	7.277	0.269	0.130	0.51	0.27	0.36	0.129	0.72
11982.0	14.30	2.78	0.19	7.073	0.270	0.134	0.53	0.25	0.36	0.132	0.73
11983.0	12.45	2.60	0.21	6.597	0.271	0.104	0.88	0.34	0.02	0.102	0.74
11984.0	12.34	2.59	0.21	6.583	0.269	0.101	0.92	0.38	0.00	0.100	0.73
11985.0	16.25	2.97	0.18	7.550	0.270	0.098	0.64	0.40	0.00	0.097	0.72
11986.0	17.06	3.05	0.18	7.747	0.269	0.089	0.66	0.47	0.00	0.088	0.72
11987.0	17.60	3.10	0.18	7.870	0.269	0.073	0.79	0.60	0.00	0.073	0.71
11988.0	16.80	3.03	0.18	7.681	0.269	0.070	0.90	0.62	0.00	0.069	0.72
11989.0	15.93	2.95	0.19	7.486	0.269	0.090	0.73	0.49	0.02	0.090	0.72
11990.0	16.03	2.94	0.18	7.469	0.272	0.101	0.63	0.43	0.15	0.098	0.73
11991.0	15.68	2.93	0.19	7.429	0.269	0.094	0.71	0.45	0.03	0.094	0.72
11992.0	15.50	2.90	0.19	7.374	0.270	0.086	0.81	0.49	0.00	0.085	0.72
11993.0	15.17	2.88	0.19	7.306	0.269	0.087	0.82	0.47	0.00	0.087	0.72

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
11994.0	15.33	2.89	0.19	7.342	0.269	0.092	0.76	0.45	0.05	0.092	0.72
11995.0	17.00	3.04	0.18	7.726	0.269	0.091	0.64	0.45	0.00	0.091	0.72
11996.0	15.76	2.93	0.19	7.438	0.269	0.096	0.69	0.43	0.00	0.095	0.72
11997.0	13.17	2.67	0.20	6.784	0.271	0.100	0.86	0.44	0.02	0.098	0.74
11998.0	13.88	2.75	0.20	6.983	0.269	0.105	0.75	0.43	0.06	0.104	0.73
11999.0	12.79	2.63	0.21	6.688	0.271	0.109	0.80	0.43	0.12	0.108	0.74
12000.0	12.05	2.56	0.21	6.500	0.270	0.117	0.80	0.41	0.21	0.116	0.74
12001.0	12.46	2.60	0.21	6.601	0.271	0.117	0.76	0.43	0.22	0.116	0.74
12002.0	13.08	2.67	0.20	6.774	0.270	0.114	0.74	0.44	0.20	0.113	0.73
12003.0	12.45	2.61	0.21	6.615	0.269	0.115	0.78	0.45	0.22	0.114	0.73
12004.0	12.51	2.60	0.21	6.605	0.271	0.117	0.76	0.43	0.24	0.114	0.74
12005.0	12.61	2.61	0.21	6.638	0.271	0.123	0.71	0.40	0.28	0.121	0.74
12006.0	9.27	2.25	0.24	5.708	0.269	0.125	0.99	0.37	0.15	0.124	0.75
12007.0	11.19	2.47	0.22	6.270	0.269	0.123	0.82	0.34	0.24	0.122	0.74
12008.0	15.42	2.90	0.19	7.357	0.270	0.122	0.53	0.32	0.23	0.121	0.72
12009.0	16.38	2.98	0.18	7.574	0.270	0.119	0.49	0.30	0.01	0.118	0.72
12010.0	11.87	2.37	0.20	6.142	0.295	0.098	1.00	0.34	0.00	0.077	0.82
12011.0	14.68	2.83	0.19	7.182	0.269	0.082	0.92	0.46	0.00	0.082	0.73
12012.0	13.53	2.72	0.20	6.899	0.269	0.103	0.80	0.39	0.04	0.102	0.73
12013.0	14.02	2.76	0.20	7.015	0.270	0.107	0.72	0.38	0.17	0.107	0.73
12014.0	13.34	2.68	0.20	6.824	0.271	0.111	0.74	0.39	0.20	0.109	0.74
12015.0	11.22	2.47	0.22	6.268	0.270	0.115	0.89	0.40	0.19	0.113	0.74
12016.0	11.57	2.51	0.22	6.369	0.270	0.117	0.84	0.39	0.14	0.116	0.74
12017.0	13.54	2.72	0.20	6.895	0.270	0.109	0.74	0.44	0.00	0.109	0.73
12018.0	13.13	2.68	0.20	6.793	0.269	0.113	0.74	0.42	0.05	0.113	0.73
12019.0	12.90	2.65	0.21	6.734	0.269	0.105	0.83	0.44	0.08	0.105	0.73
12020.0	13.23	2.68	0.20	6.808	0.270	0.105	0.80	0.44	0.00	0.104	0.73
12021.0	14.18	2.78	0.20	7.055	0.270	0.108	0.70	0.43	0.11	0.108	0.73
12022.0	14.09	2.77	0.20	7.031	0.270	0.099	0.79	0.46	0.06	0.098	0.73
12023.0	15.25	2.89	0.19	7.326	0.269	0.076	0.96	0.58	0.00	0.076	0.72
12024.0	16.20	2.97	0.18	7.548	0.269	0.070	0.96	0.62	0.00	0.069	0.72
12025.0	15.89	2.94	0.19	7.472	0.269	0.079	0.85	0.52	0.00	0.079	0.72
12026.0	15.62	2.92	0.19	7.413	0.269	0.082	0.84	0.51	0.00	0.082	0.72
12027.0	15.66	2.92	0.19	7.423	0.269	0.083	0.83	0.51	0.00	0.083	0.72
12028.0	15.60	2.92	0.19	7.409	0.269	0.086	0.80	0.47	0.00	0.086	0.72
12029.0	16.39	2.99	0.18	7.582	0.270	0.089	0.71	0.48	0.05	0.088	0.72
12030.0	15.92	2.94	0.18	7.472	0.270	0.085	0.78	0.50	0.02	0.084	0.72
12031.0	15.93	2.95	0.19	7.488	0.269	0.080	0.84	0.53	0.00	0.080	0.72
12032.0	16.40	2.99	0.18	7.597	0.269	0.085	0.74	0.49	0.00	0.085	0.72
12033.0	16.34	2.98	0.18	7.569	0.270	0.091	0.69	0.46	0.00	0.090	0.72
12034.0	16.03	2.96	0.18	7.505	0.269	0.090	0.72	0.47	0.02	0.090	0.72
12035.0	15.11	2.87	0.19	7.284	0.270	0.092	0.77	0.46	0.05	0.092	0.73
12036.0	15.36	2.89	0.19	7.348	0.269	0.092	0.75	0.48	0.06	0.092	0.72
12037.0	15.87	2.93	0.18	7.454	0.270	0.083	0.81	0.57	0.00	0.082	0.73
12038.0	16.11	2.96	0.18	7.514	0.270	0.076	0.87	0.65	0.00	0.076	0.72
12039.0	15.83	2.94	0.19	7.461	0.269	0.080	0.85	0.61	0.00	0.080	0.72
12040.0	15.70	2.93	0.19	7.430	0.269	0.086	0.79	0.53	0.00	0.086	0.72
12041.0	15.95	2.94	0.18	7.477	0.270	0.089	0.74	0.47	0.00	0.088	0.72

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
12042.0	15.78	2.93	0.19	7.439	0.270	0.087	0.77	0.45	0.00	0.087	0.72
12043.0	13.79	2.74	0.20	6.950	0.270	0.091	0.90	0.43	0.06	0.090	0.73
12044.0	9.35	2.02	0.22	5.287	0.310	0.123	1.00	0.22	0.37	0.082	0.87
12045.0	13.61	2.72	0.20	6.916	0.269	0.101	0.81	0.37	0.03	0.100	0.73
12046.0	16.89	3.03	0.18	7.693	0.270	0.078	0.78	0.65	0.00	0.077	0.72
12047.0	18.26	3.15	0.17	8.002	0.270	0.065	0.84	1.00	0.00	0.064	0.72
12048.0	11.20	2.16	0.19	5.688	0.317	0.103	1.00	0.89	0.00	0.063	0.90
12049.0	7.33	1.64	0.22	4.381	0.337	0.150	1.00	0.63	0.00	0.067	0.96
12050.0	7.40	1.79	0.24	4.701	0.310	0.150	1.00	0.62	0.00	0.100	0.88
12051.0	14.23	2.78	0.20	7.070	0.269	0.094	0.83	0.96	0.00	0.093	0.73
12052.0	14.16	2.70	0.19	6.910	0.280	0.080	1.00	1.00	0.00	0.073	0.76
12053.0	13.25	2.55	0.19	6.578	0.289	0.087	1.00	0.98	0.00	0.073	0.79
12054.0	14.21	2.71	0.19	6.934	0.280	0.080	1.00	0.96	0.00	0.073	0.76
12055.0	14.59	2.78	0.19	7.094	0.274	0.077	1.00	0.94	0.00	0.074	0.74
12056.0	14.06	2.74	0.19	6.971	0.274	0.081	1.00	0.81	0.00	0.078	0.74
12057.0	15.44	2.90	0.19	7.364	0.269	0.083	0.84	0.69	0.00	0.083	0.72
12058.0	17.83	3.12	0.18	7.920	0.269	0.081	0.68	0.69	0.00	0.081	0.71
12059.0	17.37	3.07	0.18	7.805	0.270	0.070	0.85	0.79	0.00	0.069	0.72
12060.0	16.54	3.00	0.18	7.622	0.269	0.077	0.83	0.68	0.00	0.076	0.72
12061.0	14.55	2.81	0.19	7.139	0.270	0.094	0.80	0.54	0.07	0.093	0.73
12062.0	12.50	2.61	0.21	6.621	0.270	0.110	0.82	0.45	0.22	0.109	0.74
12063.0	12.36	2.59	0.21	6.577	0.271	0.118	0.76	0.39	0.27	0.117	0.74
12064.0	13.47	2.71	0.20	6.888	0.269	0.115	0.70	0.38	0.25	0.115	0.73
12065.0	12.81	2.65	0.21	6.713	0.269	0.115	0.75	0.38	0.24	0.115	0.73
12066.0	12.22	2.58	0.21	6.556	0.269	0.112	0.82	0.38	0.22	0.112	0.73
12067.0	12.77	2.63	0.21	6.680	0.271	0.113	0.77	0.37	0.22	0.111	0.74
12068.0	13.44	2.70	0.20	6.860	0.270	0.110	0.74	0.39	0.19	0.109	0.73
12069.0	13.67	2.72	0.20	6.914	0.271	0.112	0.71	0.40	0.23	0.110	0.73
12070.0	14.25	2.77	0.19	7.047	0.271	0.111	0.68	0.40	0.21	0.108	0.73
12071.0	14.94	2.84	0.19	7.221	0.271	0.104	0.68	0.44	0.14	0.102	0.73
12072.0	14.76	2.83	0.19	7.185	0.271	0.103	0.70	0.45	0.17	0.102	0.73
12073.0	14.55	2.81	0.19	7.141	0.270	0.101	0.73	0.45	0.13	0.100	0.73
12074.0	14.35	2.80	0.19	7.097	0.270	0.100	0.76	0.48	0.09	0.099	0.73
12075.0	14.32	2.79	0.19	7.084	0.270	0.108	0.69	0.43	0.21	0.107	0.73
12076.0	15.76	2.93	0.19	7.436	0.270	0.103	0.63	0.42	0.17	0.102	0.72
12077.0	16.52	3.00	0.18	7.609	0.270	0.098	0.62	0.43	0.12	0.097	0.72
12078.0	15.64	2.90	0.19	7.383	0.272	0.097	0.69	0.42	0.13	0.095	0.73
12079.0	15.56	2.90	0.19	7.373	0.271	0.088	0.78	0.46	0.04	0.086	0.73
12080.0	15.39	2.89	0.19	7.345	0.270	0.091	0.76	0.45	0.09	0.090	0.73
12081.0	15.17	2.88	0.19	7.306	0.269	0.092	0.77	0.46	0.09	0.092	0.72
12082.0	13.89	2.75	0.20	6.977	0.270	0.093	0.87	0.46	0.05	0.092	0.73
12083.0	12.95	2.66	0.21	6.744	0.269	0.098	0.90	0.45	0.05	0.097	0.73
12084.0	12.47	2.60	0.21	6.605	0.271	0.105	0.87	0.41	0.11	0.103	0.74
12085.0	12.96	2.66	0.21	6.747	0.269	0.109	0.79	0.39	0.15	0.108	0.73
12086.0	13.86	2.74	0.20	6.965	0.270	0.106	0.74	0.39	0.15	0.105	0.73
12087.0	14.47	2.80	0.19	7.110	0.271	0.094	0.81	0.45	0.07	0.092	0.73
12088.0	14.76	2.83	0.19	7.184	0.271	0.093	0.79	0.48	0.06	0.092	0.73
12089.0	12.10	2.56	0.21	6.505	0.271	0.104	0.91	0.48	0.12	0.102	0.74

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
12090.0	12.45	2.61	0.21	6.618	0.269	0.106	0.86	0.55	0.07	0.106	0.73
12091.0	12.87	2.65	0.21	6.726	0.269	0.102	0.86	0.69	0.00	0.102	0.73
12092.0	11.96	2.50	0.21	6.392	0.277	0.097	1.00	0.82	0.00	0.091	0.76
12093.0	14.20	2.79	0.20	7.071	0.269	0.090	0.87	0.91	0.00	0.090	0.73
12094.0	14.44	2.80	0.19	7.115	0.270	0.085	0.91	0.97	0.00	0.084	0.73
12095.0	13.30	2.49	0.19	6.470	0.298	0.086	1.00	1.00	0.00	0.066	0.82
12096.0	10.83	2.20	0.20	5.750	0.305	0.107	1.00	0.86	0.00	0.076	0.85
12097.0	9.83	2.11	0.21	5.491	0.304	0.118	1.00	0.70	0.00	0.084	0.85
12098.0	12.21	2.44	0.20	6.305	0.290	0.095	1.00	0.77	0.00	0.079	0.80
12099.0	16.19	2.95	0.18	7.498	0.273	0.067	1.00	0.94	0.00	0.065	0.73
12100.0	18.28	3.15	0.17	8.002	0.270	0.067	0.81	0.76	0.00	0.066	0.72
12101.0	18.66	3.19	0.17	8.097	0.269	0.067	0.78	0.60	0.00	0.066	0.71
12102.0	16.49	2.94	0.18	7.513	0.276	0.065	1.00	0.63	0.00	0.061	0.74
12103.0	16.07	2.95	0.18	7.497	0.271	0.068	1.00	0.66	0.00	0.067	0.73
12104.0	15.94	2.81	0.18	7.231	0.288	0.068	1.00	0.71	0.00	0.058	0.78
12105.0	14.45	2.43	0.17	6.420	0.320	0.076	1.00	0.75	0.00	0.044	0.90
12106.0	10.74	2.26	0.21	5.849	0.295	0.108	1.00	0.42	0.00	0.085	0.82
12107.0	12.26	2.54	0.21	6.481	0.276	0.095	1.00	0.55	0.00	0.089	0.76
12108.0	14.70	2.83	0.19	7.177	0.270	0.077	1.00	0.76	0.00	0.076	0.73
12109.0	15.66	2.92	0.19	7.416	0.269	0.073	0.96	0.85	0.00	0.073	0.72
12110.0	14.38	2.58	0.18	6.712	0.299	0.078	1.00	0.74	0.00	0.059	0.82
12111.0	14.30	2.60	0.18	6.733	0.296	0.079	1.00	0.87	0.00	0.061	0.81
12112.0	14.29	2.79	0.20	7.084	0.269	0.093	0.83	0.62	0.00	0.093	0.73
12113.0	14.07	2.77	0.20	7.029	0.270	0.109	0.70	0.46	0.10	0.109	0.73
12114.0	14.13	2.77	0.20	7.034	0.270	0.109	0.70	0.44	0.19	0.107	0.73
12115.0	14.27	2.78	0.19	7.063	0.271	0.106	0.71	0.44	0.11	0.105	0.73
12116.0	14.44	2.79	0.19	7.101	0.271	0.100	0.75	0.44	0.02	0.098	0.73
12117.0	14.59	2.82	0.19	7.156	0.270	0.097	0.77	0.44	0.08	0.096	0.73
12118.0	14.43	2.81	0.19	7.122	0.269	0.102	0.73	0.38	0.18	0.102	0.73
12119.0	14.35	2.79	0.19	7.083	0.271	0.109	0.68	0.33	0.26	0.108	0.73
12120.0	14.41	2.80	0.19	7.110	0.270	0.106	0.70	0.32	0.14	0.106	0.73
12121.0	14.30	2.78	0.19	7.069	0.271	0.110	0.68	0.31	0.19	0.108	0.73
12122.0	14.38	2.79	0.19	7.089	0.271	0.118	0.62	0.28	0.26	0.116	0.73
12123.0	14.41	2.79	0.19	7.096	0.271	0.112	0.66	0.30	0.20	0.110	0.73
12124.0	15.63	2.92	0.19	7.412	0.269	0.099	0.67	0.31	0.15	0.099	0.72
12125.0	15.74	2.93	0.19	7.440	0.269	0.092	0.73	0.47	0.07	0.091	0.72
12126.0	15.86	2.92	0.18	7.435	0.272	0.096	0.68	0.30	0.13	0.094	0.73
12127.0	16.49	2.98	0.18	7.578	0.272	0.094	0.65	0.29	0.14	0.092	0.73
12128.0	16.28	2.97	0.18	7.540	0.271	0.094	0.67	0.29	0.12	0.092	0.73
12129.0	15.08	2.87	0.19	7.279	0.269	0.102	0.69	0.28	0.16	0.101	0.73
12130.0	15.24	2.87	0.19	7.292	0.271	0.101	0.68	0.31	0.16	0.099	0.73
12131.0	15.69	2.93	0.19	7.427	0.269	0.101	0.65	0.29	0.09	0.101	0.72
12132.0	14.25	2.78	0.20	7.071	0.270	0.115	0.65	0.24	0.06	0.114	0.73
12133.0	12.80	2.65	0.21	6.713	0.269	0.150	0.54	0.15	0.00	0.150	0.73
12134.0	18.63	3.19	0.17	8.098	0.269	0.150	0.27	0.12	0.05	0.150	0.71
12135.0	18.36	3.17	0.17	8.039	0.269	0.150	0.28	0.15	0.34	0.150	0.71
12136.0	18.09	3.15	0.17	7.981	0.269	0.150	0.29	0.20	0.52	0.150	0.71
12137.0	13.50	2.72	0.20	6.895	0.269	0.150	0.50	0.22	0.12	0.150	0.73

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
12138.0	7.87	2.07	0.26	5.264	0.269	0.150	0.93	0.29	0.00	0.150	0.75
12140.0	7.78	2.06	0.27	5.234	0.269	0.150	0.94	0.47	0.00	0.150	0.75
12141.0	7.34	2.00	0.27	5.084	0.269	0.150	0.99	0.46	0.00	0.150	0.75
12142.0	7.36	1.90	0.26	4.895	0.290	0.150	1.00	0.47	0.00	0.125	0.81
12143.0	8.07	1.87	0.23	4.904	0.310	0.140	1.00	0.54	0.00	0.093	0.88
12144.0	12.62	2.62	0.21	6.662	0.269	0.108	0.83	0.66	0.00	0.107	0.73
12145.0	7.32	1.94	0.26	4.967	0.281	0.150	1.00	0.43	0.00	0.135	0.79
12146.0	7.40	1.83	0.25	4.779	0.302	0.150	1.00	0.41	0.00	0.109	0.85
12147.0	7.84	1.80	0.23	4.749	0.318	0.143	1.00	0.43	0.00	0.086	0.90
12148.0	10.67	2.33	0.22	5.970	0.283	0.109	1.00	0.61	0.00	0.097	0.78
12149.0	9.87	2.19	0.22	5.651	0.291	0.118	1.00	0.57	0.00	0.096	0.81
12150.0	9.95	2.08	0.21	5.449	0.310	0.116	1.00	0.58	0.00	0.077	0.87
12151.0	14.24	2.65	0.19	6.833	0.288	0.080	1.00	0.86	0.00	0.067	0.79
12152.0	13.78	2.61	0.19	6.728	0.287	0.083	1.00	0.87	0.00	0.070	0.79
12153.0	10.32	2.22	0.21	5.741	0.294	0.113	1.00	0.65	0.00	0.089	0.82
12154.0	7.72	1.85	0.24	4.840	0.307	0.145	1.00	0.59	0.00	0.101	0.86
12155.0	7.40	1.78	0.24	4.670	0.313	0.150	1.00	0.59	0.00	0.096	0.89
12156.0	8.41	1.94	0.23	5.057	0.306	0.135	1.00	0.73	0.00	0.094	0.86
12157.0	9.08	2.12	0.23	5.457	0.288	0.127	1.00	0.71	0.00	0.107	0.80
12158.0	10.41	2.39	0.23	6.054	0.269	0.150	0.70	0.50	0.00	0.150	0.74
12159.0	14.25	2.79	0.20	7.084	0.269	0.150	0.46	0.38	0.00	0.150	0.73
12160.0	12.47	2.61	0.21	6.625	0.269	0.150	0.56	0.31	0.00	0.150	0.73
12161.0	8.76	2.19	0.25	5.554	0.269	0.150	0.84	0.34	0.00	0.150	0.75
12162.0	7.38	1.86	0.25	4.829	0.297	0.150	1.00	0.34	0.00	0.115	0.84
12163.0	7.31	1.61	0.22	4.327	0.341	0.150	1.00	0.38	0.00	0.063	0.96
12164.0	8.20	1.62	0.20	4.399	0.355	0.134	1.00	0.64	0.00	0.040	0.96
12165.0	12.58	2.08	0.17	5.600	0.346	0.087	1.00	1.00	0.00	0.033	0.96
12166.0	13.91	2.21	0.16	5.943	0.342	0.077	1.00	1.00	0.00	0.031	0.96
12167.0	14.19	2.65	0.19	6.819	0.288	0.080	1.00	0.76	0.00	0.067	0.79
12168.0	13.09	2.67	0.20	6.779	0.270	0.130	0.63	0.41	0.00	0.129	0.73
12169.0	11.15	2.46	0.22	6.257	0.270	0.112	0.92	0.49	0.00	0.111	0.74
12170.0	7.39	1.72	0.23	4.555	0.323	0.150	1.00	0.24	0.00	0.084	0.92
12171.0	7.29	1.97	0.27	5.012	0.275	0.150	1.00	0.34	0.00	0.143	0.77
12172.0	14.65	2.83	0.19	7.182	0.269	0.150	0.44	0.34	0.36	0.150	0.73
12173.0	20.65	3.36	0.16	8.527	0.269	0.150	0.20	0.27	0.51	0.150	0.71
12174.0	19.18	3.24	0.17	8.217	0.269	0.150	0.25	0.24	0.53	0.150	0.71
12175.0	18.90	3.21	0.17	8.157	0.269	0.150	0.26	0.24	0.45	0.150	0.71
12176.0	19.46	3.26	0.17	8.278	0.269	0.150	0.24	0.31	0.44	0.150	0.71
12177.0	19.75	3.29	0.17	8.339	0.269	0.150	0.23	0.18	0.55	0.150	0.71
12178.0	19.75	3.29	0.17	8.339	0.269	0.150	0.23	0.18	0.55	0.150	0.71
12179.0	19.46	3.26	0.17	8.278	0.269	0.150	0.24	0.26	0.34	0.150	0.71
12180.0	18.90	3.21	0.17	8.157	0.269	0.150	0.26	0.10	0.25	0.150	0.71
12181.0	18.90	3.21	0.17	8.157	0.269	0.150	0.26	0.10	0.30	0.150	0.71
12182.0	18.90	3.21	0.17	8.157	0.269	0.150	0.26	0.10	0.38	0.150	0.71
12183.0	19.46	3.26	0.17	8.278	0.269	0.150	0.24	0.16	0.38	0.150	0.71
12184.0	19.46	3.26	0.17	8.278	0.269	0.150	0.24	0.10	0.41	0.150	0.71
12185.0	19.18	3.24	0.17	8.217	0.269	0.150	0.25	0.10	0.25	0.150	0.71

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
12186.0	15.48	2.91	0.19	7.383	0.269	0.150	0.40	0.17	0.00	0.150	0.72
12187.0	7.37	1.89	0.26	4.874	0.292	0.150	1.00	0.12	0.00	0.122	0.82
12188.0	7.30	1.61	0.22	4.311	0.342	0.150	1.00	0.25	0.00	0.061	0.96
12189.0	7.36	1.67	0.23	4.447	0.332	0.150	1.00	0.20	0.00	0.073	0.95
12190.0	13.71	2.73	0.20	6.932	0.270	0.117	0.67	0.15	0.00	0.116	0.73
12191.0	18.36	3.17	0.17	8.039	0.269	0.150	0.28	0.13	0.00	0.150	0.71
12192.0	20.96	3.39	0.16	8.591	0.269	0.150	0.19	0.20	0.11	0.150	0.71
12193.0	16.37	2.99	0.18	7.592	0.269	0.150	0.36	0.19	0.00	0.150	0.72
12194.0	7.29	1.97	0.27	5.018	0.274	0.150	1.00	0.14	0.00	0.144	0.77
12195.0	7.38	1.72	0.23	4.543	0.324	0.150	1.00	0.18	0.05	0.083	0.92
12196.0	9.54	2.28	0.24	5.796	0.269	0.150	0.77	0.20	0.04	0.150	0.74
12197.0	15.70	2.93	0.19	7.434	0.269	0.150	0.39	0.15	0.13	0.150	0.72
12198.0	15.48	2.91	0.19	7.383	0.269	0.150	0.40	0.18	0.00	0.150	0.72
12199.0	14.06	2.77	0.20	7.036	0.269	0.150	0.47	0.21	0.00	0.150	0.73
12200.0	18.63	3.19	0.17	8.098	0.269	0.150	0.27	0.39	0.27	0.150	0.71
12201.0	19.75	3.29	0.17	8.339	0.269	0.150	0.23	0.31	0.18	0.150	0.71
12203.0	12.64	2.62	0.21	6.663	0.269	0.118	0.74	0.28	0.00	0.118	0.73
12205.0	13.19	2.68	0.20	6.809	0.269	0.096	0.90	0.33	0.00	0.095	0.73
12206.0	13.03	2.66	0.20	6.764	0.270	0.114	0.74	0.27	0.12	0.114	0.73
12207.0	12.79	2.63	0.21	6.686	0.271	0.133	0.63	0.18	0.34	0.131	0.74
12208.0	13.50	2.72	0.20	6.895	0.269	0.150	0.50	0.15	0.48	0.150	0.73
12209.0	17.33	3.08	0.18	7.811	0.269	0.150	0.32	0.16	0.31	0.150	0.72
12210.0	16.84	3.03	0.18	7.700	0.269	0.150	0.34	0.19	0.00	0.150	0.72
12211.0	15.48	2.91	0.19	7.383	0.269	0.150	0.40	0.19	0.00	0.150	0.72
12212.0	11.09	2.46	0.22	6.249	0.269	0.150	0.65	0.21	0.00	0.150	0.74
12213.0	12.14	2.58	0.21	6.539	0.269	0.150	0.58	0.25	0.00	0.150	0.73
12214.0	14.45	2.81	0.19	7.133	0.269	0.150	0.45	0.24	0.00	0.150	0.73
12215.0	10.28	2.37	0.23	6.016	0.269	0.150	0.71	0.23	0.00	0.150	0.74
12216.0	7.40	1.83	0.25	4.761	0.304	0.150	1.00	0.14	0.00	0.107	0.86
12217.0	12.97	2.66	0.21	6.758	0.269	0.150	0.53	0.23	0.00	0.150	0.73
12218.0	16.60	3.01	0.18	7.646	0.269	0.150	0.35	0.25	0.14	0.150	0.72
12219.0	18.63	3.19	0.17	8.098	0.269	0.150	0.27	0.23	0.06	0.150	0.71
12220.0	17.08	3.06	0.18	7.755	0.269	0.150	0.33	0.23	0.02	0.150	0.72
12221.0	12.30	2.59	0.21	6.582	0.269	0.150	0.57	0.39	0.00	0.150	0.73
12222.0	11.53	2.51	0.22	6.371	0.269	0.150	0.62	0.27	0.00	0.150	0.74
12223.0	10.54	2.40	0.23	6.092	0.269	0.150	0.69	0.27	0.00	0.150	0.74
12224.0	7.51	2.03	0.27	5.143	0.269	0.150	0.97	0.28	0.00	0.150	0.75
12225.0	11.53	2.51	0.22	6.371	0.269	0.150	0.62	0.29	0.00	0.150	0.74
12226.0	9.42	2.27	0.24	5.760	0.269	0.150	0.78	0.30	0.00	0.150	0.75
12227.0	8.15	2.11	0.26	5.358	0.269	0.150	0.90	0.30	0.00	0.150	0.75
12228.0	7.38	1.87	0.25	4.852	0.295	0.150	1.00	0.25	0.00	0.119	0.83
12229.0	7.27	1.58	0.22	4.259	0.346	0.150	1.00	0.26	0.00	0.057	0.96
12230.0	11.65	2.12	0.18	5.634	0.329	0.098	1.00	0.43	0.00	0.050	0.94
12231.0	18.84	3.21	0.17	8.144	0.269	0.065	0.79	0.71	0.00	0.065	0.71
12232.0	16.33	2.98	0.18	7.576	0.269	0.079	0.82	0.53	0.00	0.079	0.72
12233.0	13.82	2.74	0.20	6.962	0.270	0.099	0.81	0.35	0.00	0.098	0.73

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
12234.0	14.85	2.85	0.19	7.205	0.269	0.123	0.56	0.26	0.11	0.122	0.73
12235.0	15.06	2.87	0.19	7.281	0.269	0.150	0.42	0.21	0.26	0.150	0.72
12236.0	9.78	2.31	0.24	5.868	0.269	0.150	0.75	0.21	0.00	0.150	0.74
12237.0	8.89	2.12	0.24	5.434	0.285	0.129	1.00	0.23	0.00	0.112	0.79
12238.0	12.24	2.59	0.21	6.565	0.269	0.097	0.97	0.42	0.00	0.097	0.73
12239.0	19.67	3.27	0.17	8.302	0.270	0.085	0.52	0.53	0.00	0.084	0.71
12240.0	20.62	3.25	0.16	8.325	0.281	0.044	1.00	1.00	0.00	0.039	0.75
12241.0	20.26	3.19	0.16	8.196	0.285	0.045	1.00	1.00	0.00	0.039	0.76
12242.0	19.11	3.23	0.17	8.201	0.269	0.088	0.53	0.46	0.00	0.088	0.71
12243.0	16.00	2.95	0.18	7.498	0.269	0.146	0.39	0.27	0.00	0.146	0.72
12244.0	10.54	2.40	0.23	6.092	0.269	0.150	0.69	0.27	0.00	0.150	0.74
12245.0	9.31	2.26	0.24	5.725	0.269	0.150	0.79	0.31	0.00	0.150	0.75
12246.0	9.31	2.26	0.24	5.725	0.269	0.150	0.79	0.33	0.00	0.150	0.75
12247.0	12.14	2.58	0.21	6.539	0.269	0.150	0.58	0.37	0.00	0.150	0.73
12248.0	12.63	2.63	0.21	6.669	0.269	0.150	0.55	0.37	0.00	0.150	0.73
12249.0	7.36	1.90	0.26	4.900	0.289	0.150	1.00	0.30	0.00	0.125	0.81
12250.0	9.72	1.97	0.20	5.214	0.324	0.118	1.00	0.38	0.00	0.065	0.92
12251.0	12.78	2.30	0.18	6.072	0.318	0.089	1.00	0.58	0.00	0.054	0.90
12252.0	15.28	2.55	0.17	6.705	0.313	0.071	1.00	0.75	0.00	0.045	0.88
12253.0	16.17	2.89	0.18	7.403	0.279	0.067	1.00	0.57	0.00	0.062	0.75
12254.0	13.82	2.74	0.20	6.967	0.269	0.094	0.86	0.31	0.00	0.094	0.73
12255.0	8.76	2.08	0.24	5.355	0.288	0.131	1.00	0.17	0.00	0.110	0.80
12256.0	7.76	1.91	0.25	4.960	0.296	0.144	1.00	0.13	0.00	0.112	0.83
12257.0	8.74	2.01	0.23	5.228	0.300	0.131	1.00	0.15	0.00	0.098	0.84
12258.0	8.44	1.87	0.22	4.925	0.318	0.135	1.00	0.19	0.00	0.080	0.90
12259.0	8.40	1.81	0.21	4.798	0.328	0.135	1.00	0.26	0.00	0.070	0.94
12260.0	9.23	2.01	0.22	5.261	0.309	0.125	1.00	0.36	0.00	0.084	0.87
12261.0	8.83	2.00	0.23	5.207	0.304	0.130	1.00	0.37	0.00	0.093	0.85
12262.0	9.46	2.14	0.23	5.524	0.292	0.122	1.00	0.39	0.00	0.099	0.81
12263.0	7.40	1.75	0.24	4.606	0.319	0.150	1.00	0.24	0.00	0.089	0.91
12264.0	7.35	1.66	0.23	4.430	0.333	0.150	1.00	0.21	0.00	0.072	0.96
12265.0	10.50	2.00	0.19	5.325	0.331	0.109	1.00	0.43	0.00	0.054	0.95
12266.0	10.28	1.83	0.18	4.951	0.353	0.108	1.00	0.56	0.00	0.034	0.96
12267.0	14.23	2.36	0.17	6.261	0.327	0.077	1.00	0.77	0.00	0.040	0.93
12268.0	8.11	1.67	0.21	4.493	0.346	0.137	1.08	0.29	0.49	0.051	0.96
12269.0	13.30	2.70	0.20	6.842	0.269	0.106	0.79	0.41	0.00	0.106	0.73
12270.0	14.06	2.77	0.20	7.036	0.269	0.150	0.47	0.23	0.00	0.150	0.73
12271.0	18.36	3.17	0.17	8.039	0.269	0.150	0.28	0.24	0.29	0.150	0.71
12272.0	20.65	3.36	0.16	8.527	0.269	0.150	0.20	0.30	0.46	0.150	0.71
12273.0	19.18	3.24	0.17	8.217	0.269	0.150	0.25	0.31	0.00	0.150	0.71
12274.0	15.31	2.89	0.19	7.337	0.269	0.083	0.86	0.59	0.00	0.083	0.72
12275.0	15.72	2.79	0.18	7.193	0.287	0.070	1.00	0.76	0.00	0.060	0.78
12276.0	16.23	2.89	0.18	7.404	0.280	0.067	1.00	0.82	0.00	0.061	0.76
12277.0	16.84	3.03	0.18	7.684	0.270	0.106	0.54	0.43	0.00	0.105	0.72
12278.0	16.37	2.99	0.18	7.592	0.269	0.150	0.36	0.26	0.00	0.150	0.72
12279.0	10.81	2.43	0.22	6.170	0.269	0.150	0.67	0.27	0.00	0.150	0.74
12281.0	7.35	1.92	0.26	4.930	0.286	0.150	1.00	0.31	0.00	0.130	0.80

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
12282.0	7.40	1.75	0.24	4.622	0.317	0.150	1.00	0.30	0.18	0.091	0.90
12283.0	7.32	1.63	0.22	4.354	0.339	0.150	1.00	0.31	0.43	0.065	0.96
12284.0	10.62	2.14	0.20	5.614	0.311	0.109	1.00	0.47	0.00	0.071	0.88
12285.0	13.85	2.69	0.19	6.867	0.278	0.082	1.00	0.58	0.00	0.076	0.76
12286.0	14.46	2.81	0.19	7.133	0.269	0.082	0.95	0.51	0.00	0.082	0.73
12287.0	14.32	2.79	0.19	7.085	0.270	0.087	0.90	0.41	0.00	0.086	0.73
12288.0	12.35	2.50	0.20	6.410	0.284	0.094	1.00	0.34	0.00	0.082	0.78
12289.0	11.28	2.39	0.21	6.129	0.284	0.103	1.00	0.32	0.00	0.091	0.78
12290.0	12.84	2.64	0.21	6.705	0.270	0.116	0.74	0.30	0.00	0.115	0.74
12291.0	8.63	2.17	0.25	5.506	0.269	0.141	0.92	0.30	0.00	0.140	0.75
12292.0	7.36	1.90	0.26	4.895	0.290	0.150	1.00	0.22	0.00	0.125	0.81
12293.0	9.13	2.23	0.24	5.667	0.269	0.138	0.89	0.31	0.00	0.138	0.75
12294.0	14.06	2.77	0.20	7.036	0.269	0.150	0.47	0.34	0.00	0.150	0.73
12295.0	7.87	2.07	0.26	5.264	0.269	0.150	0.93	0.38	0.00	0.150	0.75
12298.0	7.32	1.63	0.22	4.365	0.338	0.150	1.00	0.43	0.00	0.066	0.96
12302.0	17.27	3.07	0.18	7.788	0.270	0.066	0.91	0.71	0.00	0.066	0.72
12303.0	17.95	3.13	0.17	7.940	0.269	0.060	0.95	0.66	0.00	0.060	0.72
12304.0	18.50	3.16	0.17	8.027	0.272	0.055	1.00	0.58	0.00	0.053	0.72
12305.0	20.72	3.37	0.16	8.539	0.269	0.053	0.81	0.87	0.00	0.053	0.71
12306.0	21.22	3.39	0.16	8.619	0.270	0.069	0.55	0.36	0.14	0.069	0.71
12307.0	20.48	3.31	0.16	8.426	0.273	0.081	0.50	0.28	0.28	0.078	0.72
12308.0	17.02	3.04	0.18	7.723	0.270	0.088	0.67	0.27	0.30	0.087	0.72
12309.0	12.91	2.65	0.21	6.734	0.269	0.100	0.88	0.25	0.32	0.099	0.73
12310.0	12.09	2.56	0.21	6.499	0.271	0.109	0.86	0.23	0.31	0.107	0.74
12311.0	11.94	2.54	0.21	6.463	0.270	0.110	0.87	0.25	0.25	0.108	0.74
12312.0	12.13	2.57	0.21	6.520	0.270	0.107	0.88	0.27	0.24	0.106	0.74
12313.0	12.95	2.66	0.21	6.751	0.269	0.105	0.83	0.29	0.26	0.104	0.73
12314.0	13.67	2.73	0.20	6.936	0.269	0.097	0.84	0.36	0.09	0.097	0.73
12315.0	14.06	2.74	0.20	6.987	0.273	0.081	1.00	0.50	0.00	0.078	0.74
12316.0	11.66	2.24	0.19	5.871	0.312	0.099	1.00	0.40	0.00	0.064	0.88
12317.0	12.75	2.31	0.18	6.079	0.316	0.089	1.00	0.54	0.00	0.055	0.89
12318.0	14.54	2.67	0.18	6.891	0.289	0.077	1.00	0.67	0.00	0.065	0.79
12319.0	14.25	2.60	0.18	6.742	0.295	0.079	1.00	0.67	0.00	0.063	0.81
12320.0	13.19	2.32	0.18	6.122	0.321	0.085	1.00	0.88	0.00	0.049	0.91
12321.0	11.09	2.01	0.18	5.379	0.337	0.102	1.00	0.68	0.00	0.045	0.96
12322.0	9.42	1.81	0.19	4.860	0.345	0.119	1.00	0.61	0.00	0.046	0.96
12323.0	9.80	1.92	0.20	5.117	0.333	0.116	1.00	0.68	0.00	0.056	0.96
12324.0	9.26	1.87	0.20	4.989	0.332	0.123	1.00	0.72	0.00	0.060	0.95
12330.0	7.40	1.76	0.24	4.625	0.317	0.150	1.00	0.60	0.00	0.091	0.90
12331.0	8.41	1.86	0.22	4.901	0.320	0.135	1.00	0.70	0.00	0.079	0.91
12332.0	7.42	1.64	0.22	4.386	0.339	0.148	1.00	0.66	0.00	0.064	0.96
12333.0	7.25	1.57	0.22	4.226	0.348	0.150	1.00	0.66	0.00	0.054	0.96
12334.0	7.21	1.53	0.21	4.152	0.353	0.150	1.00	0.66	0.00	0.048	0.96
12335.0	11.81	2.21	0.19	5.821	0.319	0.097	1.00	0.92	0.00	0.058	0.90
12336.0	9.66	2.30	0.24	5.887	0.269	0.127	0.93	0.43	0.00	0.126	0.75

Schlumberger

DEPTH FEET	RATIO G/CB 10-12	SHEAR MOD. 10-6	BULK COMP 10+6	YOUNG'S MOD.	POIS RATIO PR	TOT POR P-Z	CP	WATER SATURATION SW	GAS	EFF POR P-E	FRAC GRAD FPG
12337.0	13.50	2.72	0.20	6.895	0.269	0.150	0.50	0.37	0.41	0.150	0.73
12338.0	16.37	2.99	0.18	7.592	0.269	0.150	0.36	0.47	0.37	0.150	0.72
12339.0	18.90	3.21	0.17	8.157	0.269	0.150	0.26	0.38	0.37	0.150	0.71
12341.0	19.46	3.26	0.17	8.278	0.269	0.150	0.24	0.71	0.20	0.150	0.71
12342.0	19.46	3.26	0.17	8.278	0.269	0.150	0.24	0.40	0.36	0.150	0.71
12343.0	17.08	3.06	0.18	7.755	0.269	0.150	0.33	0.10	0.00	0.150	0.72
12344.0	9.20	2.24	0.24	5.690	0.269	0.150	0.80	0.13	0.00	0.150	0.75
12345.0	16.08	2.95	0.18	7.503	0.270	0.088	0.74	0.82	0.00	0.087	0.73
12346.0	15.45	2.80	0.18	7.190	0.283	0.072	1.00	0.30	0.00	0.063	0.77
12347.0	12.79	2.34	0.18	6.152	0.312	0.089	1.00	0.26	0.00	0.058	0.88
12348.0	9.97	2.06	0.21	5.413	0.313	0.116	1.00	0.50	0.00	0.074	0.88
12349.0	7.40	1.79	0.24	4.684	0.312	0.150	1.00	0.51	0.00	0.098	0.88
12353.0	7.38	1.87	0.25	4.850	0.295	0.150	1.00	0.55	0.00	0.118	0.83
12354.0	8.15	2.11	0.26	5.358	0.269	0.150	0.90	0.50	0.00	0.150	0.75
12355.0	14.25	2.79	0.20	7.084	0.269	0.150	0.46	0.46	0.00	0.150	0.73
12356.0	16.37	2.99	0.18	7.592	0.269	0.150	0.36	0.42	0.00	0.150	0.72
12357.0	9.31	2.26	0.24	5.725	0.269	0.150	0.79	0.52	0.00	0.150	0.75
12358.0	11.93	2.22	0.19	5.860	0.318	0.096	1.00	0.67	0.00	0.058	0.90
12359.0	15.91	2.55	0.16	6.741	0.320	0.066	1.00	0.87	0.00	0.039	0.90
12360.0	31.81	4.01	0.13	10.289	0.284	0.047	0.02	0.87	0.00	0.041	0.76

Schlumberger

TABULAR LISTING

OF

S A R A B A N D

A SANDSTONE ANALYSIS

COMPANY	EXXON COMPANY U.S.A.
WELL	#1 WILKIN RIDGE UNIT
FIELD	WILDCAT (COMPOSITE RUN)
COUNTY	DUCHESNE
STATE	UTAH
DATE	11-SP-75

TAPE IDENT. RM-10022 EXXON CO. USA #1 WILKIN RIDGE UNIT,W/C,DUCHESNE,UTAH

Schlumberger

TABULAR LISTING

OF

S A R A B A N D

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TAPE IDENT. RM-10022 EXXON CO. USA #1 WILKIN RIDGE UNIT,W/C,DUCHESNE,UTAH

LS	LD	LN	LXO	LSN	LILM	LILD	LSP	LGR	LCAL
15	14	11	0	70	71	66	9	19	18

SP BASE LINE SHIFT

NONE

CWSP ARRAY	40.	40.	65.	65.	75.	85.	0.	0.
RW ARRAY	0.200	0.200	0.200	0.200	0.160	0.300	0.000	0.000
AT DEPTH	12360.	11450.	9400.	7300.	5130.	4600.	0.	0.
AT TEMP	0.	0.	0.	0.	0.	0.	0.	0.
TOP DEPTH	11450.	9400.	7300.	5130.	4600.	0.	0.	0.

ROG ARRAY	2.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DTMA ARRAY	51.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZSNMA ARRAY	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOP DEPTH	0.	0.	0.	0.	0.	0.	0.	0.

Schlumberger

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ISS -  2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
       0 2 0 1 0 0 0 0  0  0  0  0  0  0  0  0  1  0  0  0  0

INPUT PARAMETERS FROM 11450. TO 10000.

 WMUD XLIT BITSZ  BHT BHTDEP SUFT   RMF RMFT ROMFS PHIMFS DASIL
  9.2 0.50  7.88 187. 12400.  60.  2.31  58. 1.005  0.994 0.600

  SPCK  DSPCK RODC DELRGM START STOPLG ZSPNL  BGN ZSPDL   REC  RESH CSS
    0.     0. 2.84  0.20 12365. 10000. 0.020 1.00 0.000 20.00  1.00 0.2

  WHY PHILEV  BR SLIM    AK   PK  SK STOPIN PHIMAX PHINCL PHIDCL
 .200  0.000 .10 0.30 62500. 6.0 2.0      0.  0.075  0.250 -0.010

 PHINSO  RTPM  PUN  DAX DALIM DAGA DASH DTSD DTSH  CP  PSSH
  0.090  169. .015  76.   30.  20.  96. 150. 150. 0.90 .200

 EDIAM  PNLIM  PDLIM   RLIM  GRLIM VARMC  CONST  ROP VARLIM   CSF
  0.00   1.00   1.00 1000.0 1000.0 0.07  0.333 0.31  0.20  0.10

SP STATISTICS OVER ENTIRE INTERVAL


RESISTIVITY STATISTICS OVER ENTIRE INTERVAL


GAMMA - RAY STATISTICS OVER ENTIRE INTERVAL


SONIC STATISTICS OVER ENTIRE INTERVAL

GAMMARAY NOT USED IN CORRECTION OF DOUBTFUL POROSITY DATA
ANALYSIS BY QUASIP MODEL
PERMEABILITY BY TIMUR EQUATION
SP COEFF. FROM STATISTICS
GR COEFF. FROM STATISTICS
SONIC COEFF. FROM STATISTICS
WASAMP ROUTINE USED
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Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10000.0	0.0	0.0	100		42	45.45	11.52
10005.0	0.0	0.0	100		41	45.45	11.52
10006.0	0.0	0.0	100		50	45.45	11.52
10016.0	0.0	0.0	100		47	45.45	11.52
10023.0	0.0	0.0	100		45	45.44	11.52
10024.0	0.0	0.0	100		46	45.44	11.52
10030.0	0.0	0.0	100		48	45.44	11.52
10031.0	0.0	0.0	100		44	45.44	11.52
10033.0	0.0	0.0	100		48	45.44	11.52
10034.0	0.0	0.0	100		36	45.44	11.52
10035.0	0.0	1.6	100		28	45.43	11.52
10036.0	0.0	0.1	100		39	45.42	11.52
10037.0	0.0	0.0	100		43	45.42	11.52
10038.0	0.0	0.0	100		46	45.42	11.52
10041.0	0.0	0.0	100		46	45.42	11.52
10042.0	0.0	0.2	100		40	45.42	11.52
10043.0	0.0	0.2	100		37	45.42	11.52
10044.0	0.0	0.5	100		34	45.41	11.52
10045.0	0.0	0.0	100		45	45.41	11.52
10046.0	0.0	0.0	100		47	45.41	11.52
10047.0	0.0	0.0	100		49	45.41	11.52
10049.0	0.0	0.0	100		47	45.41	11.52
10050.0	0.0	0.0	100		42	45.41	11.52
10051.0	0.0	0.0	100		41	45.41	11.52
10068.0	0.0	0.0	100		43	45.41	11.52
10069.0	0.0	1.2	100		24	45.41	11.52
10070.0	0.0	0.6	100		32	45.40	11.52
10071.0	0.0	1.7	100		16	45.39	11.52
10072.0	0.0	2.5	100		11	45.37	11.52
10073.0	0.0	2.1	100		11	45.35	11.52
10074.0	0.0	1.9	100		9	45.33	11.52
10075.0	0.0	5.1	100		8	45.30	11.52
10076.0	0.0	5.6	100		8	45.25	11.52
10077.0	0.0	6.5	100		8	45.19	11.52
10078.0	0.0	5.1	100		9	45.13	11.52
10079.0	0.0	2.7	100		11	45.09	11.52
10080.0	0.0	2.4	100		14	45.06	11.52
10081.0	0.0	2.5	100		8	45.04	11.52
10082.0	0.0	4.0	100		7	45.01	11.52
10083.0	0.0	4.4	100		6	44.97	11.52

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10084.0	0.0	6.1	100		8	44.92	11.52
10085.0	0.0	6.1	100		11	44.86	11.52
10086.0	0.0	3.9	100		18	44.81	11.52
10087.0	0.0	2.7	100		20	44.77	11.52
10088.0	0.0	4.7	100		14	44.74	11.52
10089.0	0.0	5.3	100		11	44.69	11.52
10090.0	0.0	3.9	100		13	44.65	11.52
10091.0	0.0	3.4	100		13	44.61	11.52
10092.0	0.0	3.6	100		15	44.57	11.52
10093.0	0.0	1.3	100		29	44.54	11.52
10094.0	0.0	0.0	100		39	44.54	11.52
10095.0	0.0	1.1	100		25	44.54	11.52
10096.0	0.0	1.8	100		12	44.53	11.52
10097.0	0.0	2.3	100		10	44.51	11.52
10098.0	0.0	2.6	100		11	44.48	11.52
10099.0	0.0	1.9	100		13	44.46	11.52
10100.0	0.0	2.2	100		15	44.44	11.52
10101.0	0.0	1.9	100		13	44.42	11.52
10102.0	0.0	2.0	100		14	44.40	11.52
10103.0	0.0	2.3	100		15	44.38	11.52
10104.0	0.0	1.3	100		22	44.36	11.52
10105.0	0.0	0.0	100		44	44.35	11.52
10106.0	0.0	0.0	100		48	44.35	11.52
10111.0	0.0	0.0	100		50	44.35	11.52
10112.0	0.0	1.0	100		19	44.35	11.52
10113.0	0.0	1.6	100		17	44.34	11.52
10114.0	0.0	2.1	100		21	44.32	11.52
10115.0	0.0	2.9	100		22	44.30	11.52
10116.0	0.0	3.5	100		20	44.27	11.52
10117.0	0.0	3.4	100		19	44.23	11.52
10118.0	0.0	3.0	100		18	44.20	11.52
10119.0	0.0	2.3	100		16	44.17	11.52
10120.0	0.0	0.8	100		30	44.15	11.52
10121.0	0.0	0.0	100		48	44.15	11.52
10127.0	0.0	0.0	100		29	44.15	11.52
10128.0	0.0	3.2	100		23	44.14	11.52
10129.0	0.0	0.0	100		38	44.12	11.52
10130.0	0.0	0.0	100		46	44.12	11.52
10142.0	0.0	0.0	100		50	44.12	11.52
10148.0	0.0	0.0	100		47	44.12	11.52
10149.0	0.0	0.0	100		43	44.12	11.52
10150.0	0.0	0.0	100		50	44.12	11.52
10161.0	0.0	0.0	100		46	44.12	11.52

Schlumberger

DEPTH FEET	PERM. M_D	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10162.0	0.0	0.0	100		41	44.12	11.52
10163.0	0.0	0.0	100		42	44.12	11.52
10169.0	0.0	0.0	100		49	44.12	11.52
10170.0	0.0	0.0	100		45	44.12	11.52
10173.0	0.0	0.0	100		50	44.12	11.52
10174.0	0.0	0.0	100		43	44.12	11.52
10175.0	0.0	0.0	100		39	44.12	11.52
10176.0	0.0	0.0	100		41	44.12	11.52
10190.0	0.0	0.0	100		40	44.12	11.52
10205.0	0.0	0.0	100		45	44.12	11.52
10206.0	0.0	0.0	100		37	44.12	11.52
10207.0	0.0	0.0	100		37	44.12	11.52
10208.0	0.0	1.5	100		21	44.11	11.52
10209.0	0.0	1.8	100		18	44.10	11.52
10210.0	0.0	1.9	100		20	44.08	11.52
10211.0	0.0	1.7	100		24	44.06	11.52
10212.0	0.0	0.8	100		31	44.04	11.52
10213.0	0.0	1.5	100		22	44.03	11.52
10214.0	0.0	1.3	100		25	44.02	11.52
10215.0	0.0	0.0	100		39	44.01	11.52
10216.0	0.0	0.0	100		37	44.01	11.52
10217.0	0.0	0.0	100		39	44.01	11.52
10224.0	0.0	0.0	100		40	44.01	11.52
10235.0	0.0	0.0	100		40	44.01	11.52
10236.0	0.0	0.0	100		42	44.01	11.52
10237.0	0.0	0.0	100		41	44.01	11.52
10238.0	0.0	0.2	100		35	44.01	11.52
10239.0	0.0	0.7	100		32	44.01	11.52
10240.0	0.0	1.2	100		30	44.00	11.52
10241.0	0.0	1.8	100		20	43.98	11.52
10242.0	0.0	2.7	100		18	43.97	11.52
10243.0	0.0	2.9	100		19	43.94	11.52
10244.0	0.0	3.8	100		18	43.91	11.52
10245.0	0.0	4.6	100		17	43.86	11.52
10246.0	0.0	2.8	100		23	43.82	11.52
10247.0	0.0	0.1	100		38	43.81	11.52
10248.0	0.0	0.2	100		35	43.81	11.52
10249.0	0.0	3.7	100		21	43.79	11.52
10250.0	0.0	5.1	100		17	43.75	11.52
10251.0	0.0	4.6	100		19	43.70	11.52
10252.0	0.0	2.3	100		25	43.66	11.52
10253.0	0.0	2.0	100		19	43.64	11.52

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10254.0	0.0	1.7	100		18	43.62	11.52
10255.0	0.0	1.9	100		18	43.60	11.52
10256.0	0.0	1.9	100		17	43.58	11.52
10257.0	0.0	2.3	100		16	43.56	11.52
10258.0	0.0	2.3	100		16	43.54	11.52
10259.0	0.0	2.4	100		19	43.52	11.52
10260.0	0.0	0.3	100		41	43.49	11.52
10270.0	0.0	0.0	100		40	43.49	11.52
10271.0	0.0	1.4	100		28	43.49	11.52
10272.0	0.0	0.3	100		32	43.48	11.52
10273.0	0.0	0.3	100		34	43.47	11.52
10274.0	0.0	0.9	100		27	43.47	11.52
10275.0	0.0	5.5	77		16	43.45	11.52
10276.0	0.0	3.3	100		12	43.41	11.51
10277.0	0.1	7.5	100		0	43.37	11.51
10278.0	4	11.3	38	0.3	6	43.28	11.48
10279.0	2	10.1	42	0.2	4	43.17	11.41
10280.0	0.2	7.3	58		0	43.07	11.36
10281.0	0.0	6.0	68		1	43.00	11.33
10282.0	0.1	6.2	64		3	42.95	11.32
10283.0	0.7	8.3	45		8	42.88	11.29
10284.0	3	10.6	38	0.2	11	42.79	11.24
10285.0	0.0	5.0	100		14	42.69	11.18
10286.0	0.0	0.0	100		36	42.66	11.18
10289.0	0.0	0.0	100		49	42.66	11.18
10290.0	0.0	0.0	100		46	42.66	11.18
10300.0	0.0	0.0	100		37	42.66	11.18
10301.0	0.0	0.0	100		45	42.66	11.18
10302.0	0.0	0.0	100		49	42.66	11.18
10303.0	0.0	0.0	100		37	42.66	11.18
10304.0	0.0	1.6	100		23	42.65	11.18
10305.0	0.0	1.8	100		21	42.64	11.18
10306.0	0.0	2.9	100		19	42.62	11.18
10307.0	0.0	3.6	100		16	42.59	11.18
10308.0	0.0	4.1	100		15	42.55	11.18
10309.0	0.0	4.0	100		16	42.51	11.18
10310.0	0.0	4.9	100		17	42.46	11.18
10311.0	0.0	5.1	100		16	42.41	11.18
10312.0	0.0	4.3	100		17	42.36	11.18
10313.0	0.0	3.9	100		18	42.32	11.18
10314.0	0.0	4.6	100		19	42.28	11.18
10315.0	0.0	0.0	100		38	42.24	11.18
10319.0	0.0	0.0	100		38	42.24	11.18
10320.0	0.0	0.0	100		36	42.24	11.18

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10321.0	0.0	0.0	100		41	42.24	11.18
10324.0	0.0	0.0	100		49	42.24	11.18
10325.0	0.0	0.0	100		45	42.24	11.18
10326.0	0.0	0.0	100		38	42.24	11.18
10327.0	0.0	1.6	100		21	42.24	11.18
10328.0	0.0	1.7	100		20	42.22	11.18
10329.0	0.0	1.2	100		26	42.21	11.18
10330.0	0.0	2.6	100		19	42.19	11.18
10331.0	0.0	4.4	100		17	42.16	11.18
10332.0	0.0	4.7	100		18	42.12	11.18
10333.0	0.0	3.0	100		23	42.07	11.18
10334.0	0.0	1.9	100		27	42.05	11.18
10335.0	0.0	2.8	100		24	42.03	11.18
10336.0	0.0	3.3	100		23	41.99	11.18
10337.0	0.0	2.6	100		25	41.96	11.18
10338.0	0.0	2.3	100		26	41.94	11.18
10339.0	0.0	3.6	100		19	41.91	11.18
10340.0	0.0	4.2	100		17	41.88	11.18
10341.0	0.0	4.2	100		17	41.83	11.18
10342.0	0.0	3.1	100		15	41.80	11.18
10343.0	0.0	3.3	100		13	41.77	11.18
10344.0	0.0	3.9	100		12	41.73	11.18
10345.0	0.0	4.6	100		11	41.69	11.18
10346.0	0.0	5.5	100		12	41.64	11.18
10347.0	0.0	5.1	100		13	41.59	11.18
10348.0	0.0	4.8	100		12	41.54	11.18
10349.0	0.0	4.9	100		10	41.49	11.18
10350.0	0.0	4.5	100		10	41.44	11.18
10351.0	0.0	4.5	100		11	41.40	11.18
10352.0	0.0	5.8	100		11	41.35	11.18
10353.0	0.0	6.2	100		11	41.29	11.18
10354.0	0.0	4.8	100		12	41.23	11.18
10355.0	0.0	3.9	100		14	41.18	11.18
10356.0	0.0	3.3	100		15	41.14	11.18
10357.0	0.0	2.1	100		15	41.11	11.18
10358.0	0.0	1.2	100		20	41.10	11.18
10359.0	0.0	1.7	100		26	41.08	11.18
10360.0	0.0	0.4	100		36	41.07	11.18
10374.0	0.0	0.0	100		44	41.06	11.18
10375.0	0.0	0.0	100		40	41.06	11.18
10376.0	0.0	0.0	100		38	41.06	11.18
10377.0	0.0	0.1	100		39	41.06	11.18
10378.0	0.0	0.0	100		44	41.06	11.18
10391.0	0.0	0.0	100		48	41.06	11.18
10392.0	0.0	0.0	100		44	41.06	11.18

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10393.0	0.0	0.0	100		47	41.06	11.18
10423.0	0.0	0.0	100		43	41.06	11.18
10424.0	0.0	0.0	100		39	41.06	11.18
10477.0	0.0	0.0	100		49	41.06	11.18
10485.0	0.0	0.0	100		50	41.06	11.18
10486.0	0.0	0.0	100		44	41.06	11.18
10487.0	0.0	0.0	100		39	41.06	11.18
10488.0	0.0	0.0	100		39	41.06	11.18
10510.0	0.0	0.0	100		47	41.06	11.18
10511.0	0.0	0.0	100		39	41.06	11.18
10512.0	0.0	0.0	100		40	41.06	11.18
10513.0	0.0	0.1	100		39	41.06	11.18
10514.0	0.0	0.0	100		41	41.06	11.18
10515.0	0.0	0.0	100		43	41.06	11.18
10516.0	0.0	0.0	100		45	41.06	11.18
10526.0	0.0	0.0	100		47	41.06	11.18
10527.0	0.0	0.0	100		38	41.06	11.18
10528.0	0.0	4.1	100		14	41.04	11.18
10529.0	0.0	2.3	100		15	41.01	11.18
10530.0	0.0	2.8	100		14	40.98	11.18
10531.0	0.0	3.5	100		14	40.96	11.18
10532.0	0.0	4.8	100		8	40.92	11.18
10533.0	0.0	4.6	100		9	40.87	11.18
10534.0	0.0	4.4	100		10	40.82	11.18
10535.0	0.0	5.5	94		7	40.78	11.18
10536.0	0.2	7.4	66		5	40.72	11.17
10537.0	0.2	7.6	64		5	40.64	11.15
10538.0	0.3	7.9	61		6	40.57	11.12
10539.0	0.3	8.1	60		5	40.49	11.09
10540.0	0.3	7.9	61		6	40.41	11.06
10541.0	0.5	8.6	57		6	40.33	11.02
10542.0	0.3	7.9	60		9	40.24	10.99
10543.0	0.2	7.4	60		11	40.16	10.96
10544.0	0.0	6.9	100		7	40.09	10.93
10545.0	0.0	5.3	72		12	40.03	10.92
10546.0	0.0	5.0	75		13	39.98	10.91
10547.0	0.0	5.1	98		11	39.93	10.90
10548.0	0.0	2.4	100		25	39.88	10.90
10549.0	0.0	0.0	100		43	39.87	10.90
10550.0	0.0	0.0	100		46	39.87	10.90
10551.0	0.0	0.0	100		44	39.87	10.90
10552.0	0.0	0.0	100		41	39.87	10.90
10553.0	0.0	0.1	100		40	39.87	10.90

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10554.0	0.0	0.1	100		41	39.86	10.90
10555.0	0.0	0.0	100		44	39.86	10.90
10556.0	0.0	0.0	100		44	39.86	10.90
10557.0	0.0	0.0	100		42	39.86	10.90
10558.0	0.0	0.0	100		44	39.86	10.90
10559.0	0.0	0.0	100		47	39.86	10.90
10560.0	0.0	0.0	100		46	39.86	10.90
10561.0	0.0	0.0	100		46	39.86	10.90
10562.0	0.0	0.0	100		48	39.86	10.90
10577.0	0.0	0.0	100		39	39.86	10.90
10578.0	0.0	0.0	100		42	39.86	10.90
10582.0	0.0	0.0	100		43	39.86	10.90
10583.0	0.0	0.1	100		36	39.86	10.90
10584.0	0.0	0.1	100		36	39.86	10.90
10585.0	0.0	0.1	100		35	39.86	10.90
10586.0	0.0	0.0	100		36	39.86	10.90
10587.0	0.0	0.0	100		40	39.86	10.90
10598.0	0.0	0.0	100		43	39.86	10.90
10599.0	0.0	0.0	100		37	39.86	10.90
10600.0	0.0	0.2	100		35	39.86	10.90
10601.0	0.0	0.1	100		35	39.86	10.90
10602.0	0.0	3.9	100		15	39.85	10.90
10603.0	0.0	5.6	100		13	39.80	10.90
10604.0	0.0	6.4	100		8	39.74	10.90
10605.0	0.0	3.8	100		11	39.68	10.90
10606.0	0.0	2.4	100		12	39.65	10.90
10607.0	0.0	2.0	100		12	39.63	10.90
10608.0	0.0	2.1	100		15	39.61	10.90
10609.0	0.0	4.2	100		16	39.58	10.90
10610.0	0.0	0.0	100		36	39.54	10.90
10611.0	0.0	0.0	100		49	39.54	10.90
10616.0	0.0	0.0	100		50	39.54	10.90
10633.0	0.0	0.0	100		45	39.54	10.90
10634.0	0.0	0.0	100		36	39.54	10.90
10635.0	0.0	0.9	100		28	39.53	10.90
10636.0	0.0	0.0	100		36	39.53	10.90
10637.0	0.0	0.1	100		35	39.53	10.90
10638.0	0.0	0.7	100		33	39.53	10.90
10639.0	0.0	0.6	100		35	39.52	10.90
10640.0	0.0	0.0	100		37	39.51	10.90
10641.0	0.0	0.0	100		36	39.51	10.90
10642.0	0.0	0.0	100		36	39.51	10.90
10643.0	0.0	0.0	100		37	39.51	10.90

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10644.0	0.0	0.0	100		36	39.51	10.90
10645.0	0.0	0.0	100		36	39.51	10.90
10646.0	0.0	0.0	100		38	39.51	10.90
10647.0	0.0	0.0	100		39	39.51	10.90
10648.0	0.0	0.0	100		39	39.51	10.90
10649.0	0.0	0.0	100		39	39.51	10.90
10650.0	0.0	0.0	100		41	39.51	10.90
10651.0	0.0	0.0	100		42	39.51	10.90
10652.0	0.0	0.0	100		38	39.51	10.90
10653.0	0.0	0.0	100		39	39.51	10.90
10654.0	0.0	0.0	100		39	39.51	10.90
10655.0	0.0	0.0	100		41	39.51	10.90
10656.0	0.0	0.0	100		43	39.51	10.90
10657.0	0.0	0.2	100		35	39.51	10.90
10658.0	0.0	5.1	100		12	39.49	10.90
10659.0	0.0	5.0	100		13	39.44	10.90
10660.0	0.0	2.5	100		15	39.40	10.90
10661.0	0.0	2.5	100		15	39.38	10.90
10662.0	0.0	3.9	100		19	39.34	10.90
10663.0	0.0	0.4	100		34	39.31	10.90
10664.0	0.0	0.2	100		37	39.31	10.90
10665.0	0.0	0.3	100		37	39.31	10.90
10666.0	0.0	3.1	100		20	39.30	10.90
10667.0	0.0	5.0	100		13	39.27	10.90
10668.0	0.0	4.5	100		15	39.22	10.90
10669.0	0.0	3.7	100		17	39.17	10.90
10670.0	0.0	3.4	100		20	39.14	10.90
10671.0	0.0	2.0	100		19	39.11	10.90
10672.0	0.0	2.1	100		16	39.09	10.90
10673.0	0.0	2.8	100		19	39.06	10.90
10674.0	0.0	0.6	100		32	39.04	10.90
10675.0	0.0	0.1	100		35	39.03	10.90
10676.0	0.0	1.7	100		18	39.03	10.90
10677.0	0.0	2.1	100		17	39.01	10.90
10678.0	0.0	2.1	100		19	38.99	10.90
10679.0	0.0	2.0	100		21	38.97	10.90
10680.0	0.0	2.0	100		20	38.95	10.90
10681.0	0.0	2.0	100		19	38.92	10.90
10682.0	0.0	2.2	100		20	38.91	10.90
10683.0	0.0	2.5	100		22	38.88	10.90
10684.0	0.0	2.1	100		25	38.86	10.90
10685.0	0.0	0.3	100		35	38.84	10.90
10686.0	0.0	0.3	100		37	38.84	10.90
10687.0	0.0	5.6	100		11	38.82	10.90
10688.0	0.0	5.1	100		7	38.77	10.90
10689.0	0.0	5.4	100		8	38.72	10.90
10690.0	0.0	5.8	100		8	38.66	10.90
10691.0	0.0	5.9	100		7	38.60	10.90

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10692.0	0.0	5.5	100		10	38.55	10.90
10693.0	0.0	6.1	100		11	38.49	10.90
10694.0	0.0	5.8	100		10	38.43	10.90
10695.0	0.0	4.9	100		13	38.37	10.90
10696.0	0.0	5.6	100		12	38.32	10.90
10697.0	0.0	4.8	100		13	38.27	10.90
10698.0	0.0	3.1	100		12	38.23	10.90
10699.0	0.0	3.9	100		10	38.20	10.90
10700.0	0.0	5.4	100		10	38.15	10.90
10701.0	0.0	4.9	100		12	38.09	10.90
10702.0	0.0	3.3	100		14	38.05	10.90
10703.0	0.0	3.1	100		13	38.02	10.90
10704.0	0.0	3.4	100		13	37.98	10.90
10705.0	0.0	2.3	100		15	37.95	10.90
10706.0	0.0	2.3	100		17	37.93	10.90
10707.0	0.0	2.3	100		17	37.91	10.90
10708.0	0.0	2.4	100		15	37.88	10.90
10709.0	0.0	2.7	100		14	37.86	10.90
10710.0	0.0	2.2	100		15	37.83	10.90
10711.0	0.0	2.2	100		16	37.81	10.90
10712.0	0.0	2.1	100		16	37.79	10.90
10713.0	0.0	2.0	100		17	37.77	10.90
10714.0	0.0	1.6	100		28	37.75	10.90
10715.0	0.0	0.1	100		43	37.74	10.90
10716.0	0.0	0.1	100		50	37.74	10.90
10721.0	0.0	0.0	100		45	37.74	10.90
10722.0	0.0	0.0	100		41	37.74	10.90
10723.0	0.0	0.0	100		38	37.74	10.90
10724.0	0.0	0.0	100		37	37.74	10.90
10725.0	0.0	0.9	100		22	37.74	10.90
10726.0	0.0	1.1	100		16	37.73	10.90
10727.0	0.0	1.4	100		14	37.72	10.90
10728.0	0.0	1.7	100		19	37.70	10.90
10729.0	0.0	1.5	100		23	37.69	10.90
10730.0	0.0	2.0	100		19	37.67	10.90
10731.0	0.0	1.3	100		20	37.65	10.90
10732.0	0.0	1.7	100		16	37.64	10.90
10733.0	0.0	3.0	100		16	37.62	10.90
10734.0	0.0	2.7	100		19	37.59	10.90
10735.0	0.0	2.2	100		22	37.56	10.90
10736.0	0.0	3.0	100		22	37.54	10.90
10737.0	0.0	3.6	100		20	37.51	10.90
10738.0	0.0	3.4	100		15	37.47	10.90
10739.0	0.0	2.6	100		14	37.44	10.90
10740.0	0.0	2.4	100		19	37.41	10.90
10741.0	0.0	1.1	100		30	37.39	10.90
10742.0	0.0	0.0	100		46	37.38	10.90

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10743.0	0.0	1.7	100		20	37.38	10.90
10744.0	0.0	1.2	100		26	37.37	10.90
10745.0	0.0	1.3	100		21	37.36	10.90
10746.0	0.0	1.4	100		20	37.34	10.90
10747.0	0.0	1.6	100		19	37.33	10.90
10748.0	0.0	1.4	100		22	37.31	10.90
10749.0	0.0	1.3	100		20	37.30	10.90
10750.0	0.0	1.4	100		19	37.29	10.90
10751.0	0.0	1.6	100		22	37.27	10.90
10752.0	0.0	1.5	100		22	37.25	10.90
10753.0	0.0	0.5	100		33	37.24	10.90
10754.0	0.0	0.0	100		40	37.24	10.90
10755.0	0.0	0.1	100		44	37.24	10.90
10756.0	0.0	0.1	100		50	37.24	10.90
10757.0	0.0	0.2	100		49	37.24	10.90
10758.0	0.0	0.2	100		46	37.23	10.90
10759.0	0.0	1.5	100		28	37.23	10.90
10760.0	0.0	1.5	100		21	37.22	10.90
10761.0	0.0	1.5	100		26	37.20	10.90
10762.0	0.0	0.8	100		32	37.19	10.90
10763.0	0.0	1.3	100		27	37.18	10.90
10764.0	0.0	0.1	100		36	37.17	10.90
10765.0	0.0	1.5	100		25	37.17	10.90
10766.0	0.0	1.5	100		22	37.15	10.90
10767.0	0.0	1.5	100		20	37.14	10.90
10768.0	0.0	0.3	100		34	37.12	10.90
10769.0	0.0	0.4	100		33	37.12	10.90
10770.0	0.0	1.7	100		20	37.11	10.90
10771.0	0.0	1.9	100		17	37.09	10.90
10772.0	0.0	2.0	100		17	37.08	10.90
10773.0	0.0	2.2	100		15	37.05	10.90
10774.0	0.0	2.5	100		14	37.03	10.90
10775.0	0.0	2.6	100		16	37.01	10.90
10776.0	0.0	2.4	100		16	36.98	10.90
10777.0	0.0	2.4	100		14	36.96	10.90
10778.0	0.0	3.0	100		15	36.93	10.90
10779.0	0.0	2.5	100		14	36.90	10.90
10780.0	0.0	2.3	100		15	36.88	10.90
10781.0	0.0	2.2	100		17	36.85	10.90
10782.0	0.0	1.6	100		22	36.83	10.90
10783.0	0.0	0.1	100		36	36.82	10.90
10784.0	0.0	0.1	100		35	36.82	10.90
10785.0	0.0	0.6	100		24	36.82	10.90
10786.0	0.0	0.8	100		23	36.81	10.90
10787.0	0.0	0.9	100		20	36.80	10.90
10788.0	0.0	2.4	100		18	36.79	10.90
10789.0	0.0	3.1	100		22	36.76	10.90
10790.0	0.0	0.1	100		37	36.74	10.90

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10791.0	0.0	0.0	100		44	36.74	10.90
10810.0	0.0	0.0	100		44	36.74	10.90
10811.0	0.0	1.7	100		26	36.74	10.90
10812.0	0.0	2.4	100		21	36.72	10.90
10813.0	0.0	3.6	100		20	36.69	10.90
10814.0	0.0	3.6	100		22	36.65	10.90
10815.0	0.0	1.8	100		27	36.62	10.90
10816.0	0.0	0.7	100		32	36.61	10.90
10817.0	0.0	1.2	100		30	36.60	10.90
10818.0	0.0	1.7	100		28	36.59	10.90
10819.0	0.0	1.8	100		27	36.57	10.90
10820.0	0.0	0.1	100		35	36.56	10.90
10821.0	0.0	0.0	100		36	36.56	10.90
10822.0	0.0	0.2	100		39	36.56	10.90
10823.0	0.0	0.0	100		40	36.55	10.90
10824.0	0.0	0.0	100		41	36.55	10.90
10825.0	0.0	0.0	100		44	36.55	10.90
10826.0	0.0	0.0	100		47	36.55	10.90
10827.0	0.0	0.0	100		49	36.55	10.90
10831.0	0.0	0.0	100		47	36.55	10.90
10832.0	0.0	0.0	100		46	36.55	10.90
10833.0	0.0	0.0	100		47	36.55	10.90
10834.0	0.0	0.0	100		42	36.55	10.90
10835.0	0.0	0.4	100		34	36.55	10.90
10836.0	0.0	0.1	100		36	36.55	10.90
10837.0	0.0	0.0	100		38	36.55	10.90
10838.0	0.0	0.0	100		43	36.55	10.90
10839.0	0.0	0.3	100		32	36.55	10.90
10840.0	0.0	2.3	100		18	36.54	10.90
10841.0	0.0	3.6	100		15	36.52	10.90
10842.0	0.0	4.2	100		16	36.48	10.90
10843.0	0.0	3.1	100		18	36.44	10.90
10844.0	0.0	2.5	100		14	36.41	10.90
10845.0	0.0	2.7	100		14	36.39	10.90
10846.0	0.0	3.4	100		18	36.36	10.90
10847.0	0.0	0.2	100		38	36.33	10.90
10848.0	0.0	0.4	100		37	36.32	10.90
10849.0	0.0	0.1	100		39	36.32	10.90
10850.0	0.0	0.0	100		42	36.32	10.90
10851.0	0.0	2.6	100		20	36.32	10.90
10852.0	0.0	4.5	100		17	36.28	10.90
10853.0	0.0	2.2	100		22	36.24	10.90
10854.0	0.0	0.1	100		36	36.23	10.90
10855.0	0.0	1.4	100		29	36.23	10.90
10856.0	0.0	2.5	100		25	36.21	10.90
10857.0	0.0	0.7	100		32	36.19	10.90

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10858.0	0.0	0.0	100		40	36.18	10.90
10859.0	0.0	0.0	100		39	36.18	10.90
10860.0	0.0	0.0	100		43	36.18	10.90
10896.0	0.0	0.0	100		44	36.18	10.90
10897.0	0.0	1.1	100		31	36.18	10.90
10898.0	0.0	0.4	100		36	36.17	10.90
10899.0	0.0	0.4	100		34	36.17	10.90
10900.0	0.0	0.1	100		37	36.17	10.90
10901.0	0.0	0.4	100		33	36.17	10.90
10902.0	0.0	0.0	100		40	36.16	10.90
10903.0	0.0	0.0	100		28	36.16	10.90
10904.0	0.0	1.7	100		15	36.16	10.90
10905.0	0.0	2.8	100		14	36.14	10.90
10906.0	0.0	1.1	100		23	36.12	10.90
10907.0	0.0	0.9	100		19	36.11	10.90
10908.0	0.0	2.7	100		15	36.09	10.90
10909.0	0.0	4.0	100		15	36.06	10.90
10910.0	0.0	2.6	100		20	36.02	10.90
10911.0	0.0	0.3	100		33	36.01	10.90
10912.0	0.0	1.2	100		18	36.00	10.90
10913.0	0.0	4.5	93		17	35.98	10.90
10914.0	0.0	4.5	91		18	35.93	10.89
10915.0	0.0	2.2	100		22	35.89	10.89
10916.0	0.0	1.2	100		30	35.87	10.89
10917.0	0.0	0.7	100		24	35.86	10.89
10918.0	0.0	0.9	100		16	35.85	10.89
10919.0	0.0	1.7	100		12	35.84	10.89
10920.0	0.0	0.4	100		16	35.83	10.89
10921.0	0.0	0.0	100		47	35.82	10.89
10926.0	0.0	0.0	100		48	35.82	10.89
10927.0	0.0	0.1	100		44	35.82	10.89
10928.0	0.0	0.0	100		44	35.82	10.89
10945.0	0.0	0.0	100		44	35.82	10.89
10951.0	0.0	0.0	100		41	35.82	10.89
10952.0	0.0	1.6	100		19	35.82	10.89
10953.0	0.0	0.3	100		34	35.80	10.89
10954.0	0.0	1.9	100		27	35.80	10.89
10955.0	0.0	3.8	100		16	35.77	10.89
10956.0	0.0	4.2	98		12	35.73	10.89
10957.0	0.0	4.4	97		9	35.69	10.89
10958.0	0.0	4.0	99		9	35.64	10.89
10959.0	0.0	3.9	99		11	35.61	10.89
10960.0	0.0	5.1	75		9	35.57	10.89
10961.0	0.1	5.7	62		8	35.51	10.87

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10962.0	0.1	5.8	60		10	35.45	10.85
10963.0	0.1	6.2	59		5	35.39	10.82
10964.0	0.2	6.5	49		6	35.33	10.80
10965.0	0.2	6.1	45		10	35.27	10.76
10966.0	0.0	3.5	88		10	35.22	10.74
10967.0	0.1	5.3	54		9	35.17	10.73
10968.0	0.0	4.4	79		7	35.13	10.71
10969.0	0.3	7.3	49		6	35.08	10.69
10970.0	4	11.3	35	0.3	4	34.99	10.64
10971.0	3	10.6	40	0.3	3	34.87	10.57
10972.0	1	9.5	44	0.3	4	34.77	10.51
10973.0	0.9	8.9	46		4	34.68	10.46
10974.0	0.7	8.6	47		7	34.59	10.41
10975.0	0.8	8.8	48		6	34.51	10.37
10976.0	0.9	9.0	48		4	34.42	10.32
10977.0	0.9	9.2	48		4	34.33	10.27
10978.0	1	9.0	45		6	34.24	10.23
10979.0	0.2	6.9	59		8	34.15	10.18
10980.0	0.0	1.5	100		13	34.09	10.16
10981.0	0.0	0.0	100		22	34.08	10.16
10982.0	0.0	0.0	100		27	34.08	10.16
10983.0	0.0	0.0	100		16	34.08	10.16
10984.0	0.0	4.2	88		10	34.08	10.16
10985.0	0.2	6.5	54		8	34.02	10.15
10986.0	0.1	5.8	65		10	33.96	10.12
10987.0	0.0	4.4	80		17	33.90	10.10
10988.0	0.0	1.4	100		24	33.87	10.10
10989.0	0.0	3.6	100		16	33.85	10.10
10990.0	0.0	5.0	77		10	33.81	10.09
10991.0	0.0	5.0	71		11	33.76	10.08
10992.0	0.0	5.4	67		13	33.71	10.07
10993.0	0.0	4.2	94		12	33.66	10.06
10994.0	0.1	6.0	58		9	33.61	10.05
10995.0	0.0	5.3	65		11	33.55	10.02
10996.0	0.0	4.3	100		13	33.50	10.01
10997.0	0.0	0.7	100		22	33.46	10.01
11011.0	0.0	0.0	100		48	33.46	10.01
11012.0	0.0	1.1	100		21	33.46	10.01
11013.0	0.0	4.9	83		15	33.43	10.01
11014.0	0.0	3.4	100		15	33.39	10.00
11015.0	0.1	5.9	63		11	33.35	10.00
11016.0	0.1	6.2	64		5	33.29	9.98
11017.0	0.1	6.9	63		0	33.23	9.95
11018.0	0.5	8.3	50		0	33.16	9.92
11019.0	0.6	8.4	50		1	33.07	9.88
11020.0	0.3	7.7	54		1	32.99	9.84
11021.0	0.4	7.9	52		1	32.91	9.81

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11022.0	0.4	7.6	48		0	32.83	9.77
11023.0	0.3	7.2	52		1	32.76	9.73
11024.0	0.2	6.6	50		1	32.69	9.69
11025.0	0.2	6.6	49		1	32.62	9.66
11026.0	0.2	6.5	46		5	32.55	9.63
11027.0	0.1	5.7	51		9	32.49	9.59
11028.0	0.1	5.3	57		11	32.44	9.57
11029.0	0.1	6.2	58		4	32.38	9.54
11030.0	0.2	6.5	49		5	32.32	9.52
11031.0	0.3	7.2	49		2	32.25	9.48
11032.0	0.5	7.7	44	0.3	0	32.18	9.44
11033.0	0.2	6.5	45		0	32.10	9.40
11034.0	1	8.1	36	0.3	0	32.04	9.36
11035.0	0.6	7.8	42	0.3	0	31.95	9.31
11036.0	0.5	6.1	25	0.5	0	31.88	9.27
11037.0	0.0	5.9	100		0	31.82	9.25
11038.0	0.3	6.5	42		0	31.76	9.23
11039.0	0.3	7.0	48		0	31.69	9.19
11040.0	0.2	6.7	51		4	31.62	9.16
11041.0	0.4	7.5	45		6	31.55	9.12
11042.0	0.0	4.4	72		16	31.49	9.09
11043.0	0.0	4.2	99		17	31.45	9.08
11044.0	0.0	0.0	100		37	31.40	9.08
11060.0	0.0	0.0	100		45	31.40	9.08
11061.0	0.0	0.0	100		45	31.40	9.08
11065.0	0.0	0.0	100		44	31.40	9.08
11066.0	0.0	2.6	100		25	31.40	9.08
11067.0	0.0	4.7	76		17	31.37	9.08
11068.0	0.0	4.7	80		12	31.32	9.06
11069.0	0.0	3.9	98		10	31.27	9.06
11070.0	0.0	3.4	99		10	31.24	9.06
11071.0	0.0	3.6	98		8	31.20	9.06
11072.0	0.0	3.7	100		8	31.16	9.05
11073.0	0.0	4.0	100		10	31.13	9.05
11074.0	0.0	4.9	85		16	31.08	9.05
11075.0	0.0	1.4	100		29	31.04	9.05
11076.0	0.0	3.5	100		16	31.02	9.05
11077.0	0.0	4.3	100		8	30.98	9.05
11078.0	0.0	4.0	99		5	30.94	9.05
11079.0	0.0	4.4	76		4	30.90	9.05
11080.0	0.0	5.1	65		1	30.85	9.04
11081.0	0.0	5.3	72		0	30.80	9.02
11082.0	0.1	5.8	55		0	30.75	9.01
11083.0	0.2	6.5	47		2	30.69	8.98
11084.0	0.3	6.5	43		2	30.62	8.94
11085.0	0.1	5.8	46		2	30.56	8.91

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11086.0	0.1	5.3	59		2	30.50	8.88
11087.0	0.1	6.7	63		0	30.44	8.85
11088.0	0.0	6.2	96		0	30.38	8.83
11089.0	0.0	6.0	87		14	30.31	8.83
11090.0	0.0	0.0	100		44	30.28	8.83
11095.0	0.0	0.0	100		45	30.28	8.83
11096.0	0.0	0.0	100		50	30.28	8.83
11103.0	0.0	0.1	100		22	30.28	8.83
11104.0	0.0	4.0	100		12	30.28	8.83
11105.0	0.0	2.8	100		6	30.24	8.83
11106.0	0.0	1.1	100		6	30.21	8.83
11107.0	0.0	0.0	100		18	30.21	8.83
11108.0	0.0	0.0	100		36	30.21	8.83
11111.0	0.0	0.0	100		49	30.21	8.83
11129.0	0.0	0.0	100		46	30.21	8.83
11130.0	0.0	0.0	100		49	30.21	8.83
11131.0	0.0	0.0	100		41	30.21	8.83
11135.0	0.0	0.0	100		48	30.21	8.83
11136.0	0.0	3.4	100		22	30.21	8.83
11137.0	0.0	4.1	100		18	30.17	8.83
11138.0	0.0	3.9	100		18	30.13	8.83
11139.0	0.0	4.3	100		19	30.09	8.83
11140.0	0.0	4.7	94		19	30.04	8.83
11141.0	0.0	4.6	95		17	29.99	8.82
11142.0	0.0	4.6	81		16	29.95	8.82
11143.0	0.1	5.6	61		12	29.90	8.81
11144.0	0.1	6.1	65		3	29.84	8.79
11145.0	0.1	6.3	62		3	29.78	8.76
11146.0	0.1	6.0	58		7	29.72	8.74
11147.0	0.0	5.0	64		13	29.66	8.72
11148.0	0.0	4.4	87		11	29.61	8.70
11149.0	0.0	5.0	62		12	29.57	8.69
11150.0	0.1	5.5	58		9	29.52	8.67
11151.0	0.1	5.7	62		8	29.46	8.65
11152.0	0.0	3.7	100		18	29.40	8.63
11161.0	0.0	0.9	100		13	29.38	8.63
11162.0	0.4	8.6	61		1	29.34	8.62
11163.0	0.5	8.2	50		1	29.26	8.58
11164.0	0.5	7.8	44		3	29.18	8.54
11165.0	0.6	8.1	46		2	29.10	8.50
11166.0	0.2	6.8	51		2	29.02	8.45
11167.0	0.1	5.6	61		1	28.95	8.42

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11168.0	0.1	6.0	58		0	28.90	8.40
11169.0	0.2	6.7	51		0	28.83	8.37
11170.0	0.2	6.8	48		0	28.77	8.34
11171.0	0.2	6.4	47		0	28.70	8.31
11172.0	0.1	5.5	55		0	28.64	8.27
11173.0	0.0	4.9	60		2	28.58	8.25
11174.0	0.1	5.2	55		2	28.54	8.23
11175.0	0.1	5.7	56		2	28.48	8.21
11176.0	0.1	5.8	58		4	28.42	8.18
11177.0	0.0	5.2	59		8	28.37	8.16
11178.0	0.0	4.7	75		8	28.32	8.14
11179.0	0.0	3.6	100		8	28.27	8.13
11180.0	0.0	3.1	100		12	28.24	8.13
11181.0	0.0	2.9	100		13	28.21	8.13
11182.0	0.0	2.9	100		8	28.18	8.13
11183.0	0.0	3.3	100		7	28.15	8.13
11184.0	0.0	4.1	77		5	28.11	8.13
11185.0	0.0	4.9	58		2	28.07	8.12
11186.0	0.0	5.4	100		0	28.02	8.09
11187.0	0.7	7.1	32	0.4	0	27.96	8.09
11188.0	1	7.5	28	0.4	0	27.89	8.04
11189.0	0.3	6.1	33	0.5	0	27.82	7.99
11190.0	0.6	6.7	31		1	27.75	7.95
11191.0	0.3	5.8	32	0.5	3	27.69	7.90
11192.0	0.0	4.4	59		4	27.63	7.87
11193.0	0.1	5.4	56		8	27.59	7.85
11194.0	0.1	5.8	61		16	27.53	7.82
11204.0	0.0	0.0	100		43	27.50	7.81
11205.0	0.0	0.9	100		32	27.50	7.81
11206.0	0.0	2.5	100		25	27.48	7.81
11207.0	0.0	0.0	100		38	27.47	7.81
11208.0	0.0	1.5	100		20	27.47	7.81
11209.0	0.0	4.6	100		15	27.44	7.81
11210.0	0.0	0.0	100		47	27.41	7.81
11214.0	0.0	0.0	100		48	27.41	7.81
11215.0	0.0	4.3	100		19	27.41	7.81
11216.0	0.0	0.7	100		32	27.37	7.81
11217.0	0.0	0.0	100		43	27.37	7.81
11218.0	0.0	0.0	100		44	27.37	7.81
11219.0	0.0	0.0	100		42	27.37	7.81
11223.0	0.0	4.9	100		18	27.37	7.81
11224.0	0.0	3.5	100		15	27.32	7.81
11225.0	0.0	2.8	100		15	27.29	7.81
11226.0	0.0	2.8	100		13	27.26	7.81
11227.0	0.0	3.5	100		12	27.23	7.81

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11228.0	0.0	3.5	100		9	27.20	7.81
11229.0	0.0	3.4	100		11	27.16	7.81
11230.0	0.0	2.4	100		25	27.13	7.81
11233.0	0.0	0.0	100		41	27.12	7.81
11234.0	0.0	0.0	100		42	27.12	7.81
11235.0	0.0	0.0	100		40	27.12	7.81
11236.0	0.0	0.0	100		46	27.12	7.81
11237.0	0.0	0.0	100		38	27.12	7.81
11238.0	0.0	0.0	100		38	27.11	7.81
11247.0	0.0	5.0	96		11	27.11	7.81
11248.0	0.0	3.8	100		7	27.07	7.81
11249.0	0.0	4.2	100		8	27.03	7.81
11250.0	0.0	1.1	100		30	26.98	7.81
11259.0	0.0	0.0	100		50	26.98	7.81
11261.0	0.0	0.0	100		46	26.98	7.81
11268.0	0.0	0.9	100		22	26.98	7.81
11269.0	0.0	1.9	100		23	26.97	7.81
11270.0	0.0	0.1	100		25	26.95	7.81
11271.0	0.0	1.2	100		21	26.95	7.81
11272.0	0.0	2.4	100		21	26.93	7.81
11273.0	0.0	0.2	100		39	26.92	7.81
11274.0	0.0	0.0	100		42	26.92	7.81
11275.0	0.0	2.2	100		24	26.92	7.81
11276.0	0.0	4.3	92		13	26.89	7.81
11277.0	0.0	3.6	100		12	26.85	7.81
11278.0	0.0	3.9	100		14	26.81	7.81
11279.0	0.0	0.0	100		44	26.77	7.81
11291.0	0.0	0.0	100		42	26.77	7.81
11292.0	0.0	2.3	100		22	26.77	7.81
11293.0	0.0	3.3	98		18	26.74	7.81
11294.0	0.0	4.0	87		14	26.71	7.80
11295.0	0.0	4.1	90		11	26.67	7.80
11296.0	0.0	3.9	95		9	26.63	7.80
11297.0	0.0	4.1	88		10	26.59	7.79
11298.0	0.0	4.6	76		7	26.55	7.79
11299.0	0.0	4.3	92		6	26.50	7.78
11300.0	0.0	4.7	81		6	26.46	7.77
11301.0	0.0	4.5	88		7	26.41	7.76
11302.0	0.0	3.6	99		9	26.37	7.76
11303.0	0.0	3.8	98		14	26.33	7.76
11304.0	0.0	3.9	100		20	26.29	7.76
11314.0	0.0	0.0	100		46	26.28	7.76

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11321.0	0.0	0.0	100		43	26.28	7.76
11322.0	0.0	4.7	100		10	26.27	7.76
11323.0	0.0	5.9	72		5	26.22	7.76
11324.0	0.4	7.9	53		1	26.15	7.73
11325.0	0.5	8.4	55		0	26.07	7.70
11326.0	0.0	6.6	76		3	25.99	7.66
11327.0	0.0	4.8	100		11	25.93	7.65
11328.0	0.0	1.1	100		30	25.88	7.65
11340.0	0.0	0.0	100		36	25.87	7.65
11341.0	0.0	0.3	100		35	25.86	7.65
11342.0	0.0	0.0	100		46	25.86	7.65
11347.0	0.0	0.0	100		48	25.86	7.65
11352.0	0.0	0.0	100		41	25.86	7.65
11353.0	0.0	0.0	100		37	25.86	7.65
11354.0	0.0	3.2	100		22	25.85	7.65
11355.0	0.0	0.0	100		42	25.83	7.65
11366.0	0.0	0.0	100		46	25.83	7.65
11367.0	0.0	0.0	100		41	25.83	7.65
11368.0	0.0	0.0	100		43	25.83	7.65
11369.0	0.0	0.0	100		45	25.83	7.65
11370.0	0.0	0.0	100		46	25.83	7.65
11371.0	0.0	0.0	100		46	25.83	7.65
11372.0	0.0	0.0	100		49	25.83	7.65
11373.0	0.0	0.3	100		34	25.83	7.65
11374.0	0.0	0.0	100		16	25.83	7.65
11375.0	0.0	0.0	100		25	25.83	7.65
11376.0	0.0	0.0	100		41	25.83	7.65
11377.0	0.0	0.0	100		48	25.83	7.65
11378.0	0.0	0.1	100		49	25.83	7.65
11379.0	0.0	0.1	100		40	25.83	7.65
11380.0	0.0	1.4	100		23	25.82	7.65
11381.0	0.0	0.9	100		25	25.81	7.65
11382.0	0.0	0.7	100		23	25.80	7.65
11383.0	0.0	0.9	100		27	25.79	7.65
11384.0	0.0	0.4	100		34	25.78	7.65
11385.0	0.0	3.3	100		22	25.78	7.65
11386.0	0.0	5.2	100		16	25.74	7.65
11387.0	0.0	5.4	100		16	25.68	7.65
11388.0	0.0	5.5	100		15	25.63	7.65
11389.0	0.0	3.4	100		22	25.57	7.65
11390.0	0.0	0.0	100		41	25.56	7.65
11391.0	0.0	0.0	100		36	25.56	7.65
11392.0	0.0	3.4	100		16	25.54	7.65

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11393.0	0.0	4.1	100		19	25.51	7.65
11394.0	0.0	1.2	100		30	25.47	7.65
11395.0	0.0	0.0	100		45	25.47	7.65
11421.0	0.0	0.0	100		46	25.47	7.65
11422.0	0.0	0.2	100		39	25.47	7.65
11423.0	0.0	0.0	100		40	25.46	7.65
11424.0	0.0	0.0	100		40	25.46	7.65
11425.0	0.0	0.0	100		42	25.46	7.65
11432.0	0.0	0.0	100		44	25.46	7.65
11433.0	0.0	0.0	100		38	25.46	7.65
11434.0	0.0	2.9	100		23	25.46	7.65
11435.0	0.0	3.0	100		23	25.43	7.65
11436.0	0.0	2.0	100		27	25.40	7.65
11437.0	0.0	0.8	100		31	25.38	7.65
11438.0	0.0	0.0	100		36	25.38	7.65
11439.0	0.0	0.0	100		38	25.38	7.65
11440.0	0.0	0.0	100		42	25.38	7.65
11446.0	0.0	0.0	100		49	25.38	7.65
11447.0	0.0	0.0	100		44	25.38	7.65
11448.0	0.0	0.0	100		48	25.38	7.65

Schlumberger

ISS - 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
0 2 0 1 0 1 1 0 2 0 0 0 0 0 0 0 1 0 0 0 0

INPUT PARAMETERS FROM 12360. TO 11450.

WMUD	XLIT	BITSZ	BHT	BHTDEP	SUFT	RMF	RMFT	ROMFS	PHIMFS	DASIL
12.7	0.50	7.88	187.	12400.	60.	0.30	187.	1.005	0.994	0.600

SPCK	DSPCK	RODC	DELRGM	START	STOPLG	ZSPNL	BGN	ZSPDL	REC	RESH	CSS
0.	0.	2.84	0.20	12360.	10000.	0.000	1.00	-0.030	15.20	6.00	0.2

WHY	PHILEV	BR	SLIM	AK	PK	SK	STOPIN	PHIMAX	PHINCL	PHIDCL
.200	0.000	.10	0.30	62500.	6.0	2.0	11450.	0.100	0.290	-0.005

PHINSO	RTPM	PUN	DAX	DALIM	DAGA	DASH	DTSD	DTSH	CP	PSSH
0.080	169.	.015	95.	47.	38.	125.	150.	150.	1.00	.090

EDIAM	PNLIM	PDLIM	RLIM	GRLIM	VARMC	CONST	ROP	VARLIM	CSF
0.00	0.30	0.25	10.0	1000.0	0.07	0.333	0.70	0.20	0.50

RESISTIVITY STATISTICS OVER ENTIRE INTERVAL

GAMMA - RAY STATISTICS OVER ENTIRE INTERVAL

SONIC STATISTICS OVER ENTIRE INTERVAL

ANALYSIS BY QUASI MODEL
PERMEABILITY BY TIMUR EQUATION
SP NOT USED IN SHALINESS DETERMINATION
GR COEFF. FROM STATISTICS
SONIC COEFF. FROM STATISTICS
WASAMP ROUTINE USED

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11452.0	0.0	0.0	100		47	25.37	7.65
11464.0	0.0	0.0	100		50	25.36	7.65
11465.0	0.0	0.0	100		43	25.36	7.65
11466.0	0.0	0.0	100		44	25.36	7.65
11467.0	0.0	0.0	100		45	25.36	7.65
11468.0	0.0	0.2	100		48	25.36	7.65
11473.0	0.0	0.2	100		47	25.33	7.65
11474.0	0.0	1.9	100		37	25.32	7.65
11475.0	0.0	0.5	100		39	25.30	7.65
11476.0	0.0	2.3	100		27	25.29	7.65
11477.0	0.0	1.2	100		33	25.27	7.65
11478.0	0.0	0.0	100		44	25.26	7.65
11479.0	0.0	0.2	100		43	25.26	7.65
11480.0	0.0	0.5	100		43	25.26	7.65
11481.0	0.0	2.3	100		45	25.26	7.65
11482.0	0.0	0.5	100		48	25.23	7.65
11483.0	0.0	0.1	100		50	25.23	7.65
11490.0	0.0	0.0	100		45	25.22	7.65
11491.0	0.0	0.7	100		49	25.22	7.65
11494.0	0.0	3.3	100		50	25.18	7.65
11499.0	0.0	0.9	100		46	25.02	7.65
11500.0	0.0	1.7	100		27	25.01	7.65
11501.0	0.0	4.3	80		16	24.98	7.65
11502.0	0.0	5.2	59		13	24.94	7.64
11503.0	0.1	6.1	54		15	24.89	7.62
11504.0	0.0	5.9	79		16	24.82	7.59
11505.0	0.0	0.0	100		39	24.77	7.58
11522.0	0.0	0.0	100		49	24.77	7.58
11533.0	0.0	0.0	100		47	24.76	7.58
11545.0	0.0	1.9	100		39	24.67	7.58
11546.0	0.0	2.3	100		30	24.65	7.58
11547.0	0.0	3.4	97		26	24.62	7.58
11548.0	0.0	4.3	48		23	24.59	7.58
11549.0	0.1	4.7	43		24	24.54	7.55
11550.0	0.0	4.3	51		27	24.50	7.53
11551.0	0.1	5.0	41		25	24.45	7.51
11552.0	0.1	5.0	44		24	24.40	7.48
11553.0	0.1	5.3	43		24	24.35	7.45
11554.0	0.1	5.4	49		24	24.30	7.42
11555.0	0.0	4.7	50		28	24.25	7.39

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11556.0	0.0	4.7	53		26	24.20	7.37
11557.0	0.1	5.4	46		24	24.15	7.35
11558.0	0.1	5.7	43		25	24.10	7.32
11559.0	0.2	5.9	43		24	24.04	7.28
11560.0	0.1	4.9	47		27	23.98	7.25
11561.0	0.0	4.2	58		30	23.94	7.23
11562.0	0.0	3.8	69		33	23.90	7.21
11563.0	0.0	4.1	61		34	23.86	7.20
11564.0	0.0	3.5	99		28	23.82	7.18
11565.0	0.0	4.0	71		24	23.78	7.18
11566.0	0.0	2.7	100		30	23.74	7.17
11567.0	0.0	0.7	100		46	23.72	7.17
11570.0	0.0	3.8	100		44	23.68	7.17
11571.0	0.0	3.1	100		35	23.64	7.17
11572.0	0.0	3.5	100		32	23.61	7.17
11573.0	0.0	4.2	75		29	23.57	7.17
11574.0	0.0	4.5	69		25	23.53	7.16
11575.0	0.0	4.1	72		27	23.49	7.14
11576.0	0.0	4.5	64		25	23.44	7.13
11577.0	0.0	4.4	64		24	23.40	7.11
11578.0	0.0	3.4	100		29	23.36	7.10
11579.0	0.0	3.5	100		38	23.32	7.10
11580.0	0.0	4.9	56		40	23.28	7.09
11581.0	0.0	5.0	59		36	23.23	7.07
11582.0	0.0	4.0	99		43	23.19	7.05
11583.0	0.0	3.5	100		48	23.15	7.05
11584.0	0.0	3.7	100		47	23.11	7.05
11585.0	0.0	3.6	100		33	23.08	7.05
11586.0	0.0	4.1	100		28	23.04	7.05
11587.0	0.0	5.3	64		28	22.99	7.05
11588.0	0.1	5.1	50		34	22.94	7.03
11607.0	0.0	0.0	0		0	0.00	0.00
11608.0	0.0	0.0	0		0	0.00	0.00
11616.0	0.0	3.1	100		46	22.55	6.98
11617.0	0.0	2.1	100		48	22.52	6.98
11618.0	0.0	2.5	100		48	22.50	6.98
11619.0	0.0	2.8	100		43	22.47	6.98
11620.0	0.0	2.6	100		40	22.44	6.98
11621.0	0.0	2.1	100		38	22.42	6.98
11622.0	0.0	2.3	100		35	22.40	6.98
11623.0	0.0	2.3	100		39	22.37	6.98
11624.0	0.0	2.4	100		42	22.35	6.98
11625.0	0.0	2.7	100		43	22.33	6.98
11626.0	0.0	2.6	100		44	22.30	6.98
11628.0	0.0	0.0	0		0	0.00	0.00

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11629.0	0.0	0.0	0		0	0.00	0.00
11632.0	0.0	3.4	100		44	22.18	6.98
11633.0	0.0	0.6	100		47	22.15	6.98
11634.0	0.0	2.5	100		38	22.14	6.98
11635.0	0.0	3.1	100		36	22.11	6.98
11636.0	0.0	2.8	100		38	22.09	6.98
11637.0	0.0	2.9	100		40	22.06	6.98
11638.0	0.0	2.7	100		42	22.03	6.98
11639.0	0.0	2.5	100		45	22.00	6.98
11645.0	0.0	2.4	100		47	21.88	6.98
11646.0	0.0	1.9	100		48	21.86	6.98
11647.0	0.0	2.3	100		47	21.84	6.98
11648.0	0.0	2.3	100		46	21.82	6.98
11653.0	0.0	2.1	100		50	21.76	6.98
11658.0	0.0	3.9	100		39	21.61	6.98
11659.0	0.0	4.0	100		43	21.57	6.98
11660.0	0.0	5.0	70		43	21.53	6.98
11661.0	0.0	5.2	62		40	21.48	6.97
11662.0	0.0	4.4	65		45	21.43	6.95
11663.0	0.0	3.0	100		46	21.39	6.94
11664.0	0.0	0.3	100		45	21.36	6.94
11665.0	0.0	1.5	100		33	21.36	6.94
11666.0	0.0	1.6	100		32	21.34	6.94
11667.0	0.0	0.8	100		40	21.33	6.94
11669.0	0.0	3.0	100		44	21.33	6.94
11670.0	0.1	5.3	46		32	21.28	6.92
11671.0	0.0	2.9	100		34	21.23	6.90
11672.0	0.0	0.2	100		43	21.21	6.90
11687.0	0.0	0.0	0		0	0.00	0.00
11688.0	0.0	0.0	0		0	0.00	0.00
11689.0	0.0	0.0	0		0	0.00	0.00
11690.0	0.0	0.0	0		0	0.00	0.00
11691.0	0.0	1.4	100		48	21.14	6.90
11692.0	0.0	0.1	100		42	21.13	6.90
11693.0	0.0	3.5	100		45	21.12	6.90
11696.0	0.0	2.6	100		48	21.03	6.89
11699.0	0.0	1.4	100		41	20.93	6.88
11700.0	0.0	2.0	100		43	20.91	6.88
11701.0	0.0	2.6	100		43	20.89	6.88
11702.0	0.0	3.4	100		46	20.87	6.88

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11703.0	0.0	3.9	78		44	20.83	6.87
11704.0	0.0	3.8	72		39	20.79	6.86
11705.0	0.0	4.2	67		25	20.75	6.85
11706.0	0.0	4.1	65		31	20.71	6.84
11707.0	0.6	7.3	36		37	20.66	6.81
11708.0	0.0	4.5	63		34	20.59	6.77
11709.0	0.0	2.2	100		40	20.55	6.76
11710.0	0.0	2.5	100		31	20.52	6.76
11711.0	0.1	5.8	54		13	20.49	6.75
11712.0	0.2	6.4	47		8	20.43	6.72
11713.0	0.2	6.3	49		5	20.36	6.68
11714.0	0.1	6.1	51		6	20.30	6.65
11715.0	0.1	5.4	57		10	20.24	6.62
11716.0	0.0	3.6	100		21	20.19	6.61
11717.0	0.0	4.6	74		19	20.16	6.60
11718.0	0.0	2.7	100		30	20.11	6.59
11719.0	0.0	3.9	93		38	20.08	6.59
11720.0	0.4	6.9	42		31	20.03	6.57
11721.0	0.2	6.5	47		17	19.97	6.54
11722.0	0.3	6.6	40		11	19.91	6.50
11723.0	0.4	6.6	34		10	19.84	6.46
11724.0	0.2	5.8	34		12	19.77	6.42
11725.0	0.2	5.5	31		13	19.72	6.38
11726.0	0.8	6.8	26	0.5	9	19.66	6.34
11727.0	0.6	6.4	27	0.5	10	19.59	6.29
11728.0	0.3	6.2	33		9	19.53	6.25
11729.0	0.1	5.8	43		12	19.47	6.21
11730.0	0.0	4.7	54		19	19.41	6.18
11731.0	0.0	4.0	72		23	19.37	6.16
11732.0	0.0	3.7	100		24	19.33	6.15
11733.0	0.0	1.5	100		37	19.29	6.15
11734.0	0.0	2.3	100		40	19.28	6.15
11735.0	0.0	2.4	100		34	19.25	6.15
11736.0	0.0	5.3	68		17	19.22	6.15
11737.0	0.0	4.8	61		18	19.17	6.13
11738.0	0.0	4.2	67		19	19.12	6.11
11739.0	0.0	4.2	72		22	19.08	6.10
11740.0	0.0	2.2	100		32	19.04	6.09
11741.0	0.0	2.3	100		38	19.02	6.09
11742.0	0.0	1.9	100		38	19.00	6.09
11743.0	0.0	1.8	100		35	18.98	6.09
11744.0	0.0	2.2	100		36	18.97	6.09
11745.0	0.0	2.8	100		38	18.94	6.09
11746.0	0.0	3.7	100		35	18.91	6.09
11747.0	0.0	3.4	100		38	18.88	6.09
11748.0	0.0	2.9	100		41	18.84	6.09
11749.0	0.0	0.1	100		41	18.82	6.09
11750.0	0.0	0.0	100		42	18.82	6.09

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11751.0	0.0	0.5	100		50	18.82	6.09
11752.0	0.0	0.9	100		49	18.82	6.09
11753.0	0.0	0.6	100		42	18.81	6.09
11754.0	0.0	1.6	100		33	18.80	6.09
11755.0	0.0	0.0	100		40	18.79	6.09
11756.0	0.0	0.6	100		45	18.79	6.09
11757.0	0.0	2.7	100		39	18.78	6.09
11758.0	0.0	2.6	100		32	18.75	6.09
11759.0	0.0	2.2	100		32	18.73	6.09
11760.0	0.0	2.8	100		28	18.70	6.09
11761.0	0.0	4.0	69		21	18.67	6.09
11762.0	0.0	4.3	66		19	18.63	6.08
11763.0	0.0	3.2	100		24	18.59	6.07
11764.0	0.0	3.0	100		29	18.56	6.07
11765.0	0.0	1.9	100		35	18.53	6.07
11766.0	0.0	1.9	100		34	18.51	6.07
11767.0	0.0	2.5	100		37	18.49	6.07
11768.0	0.0	3.1	100		33	18.47	6.07
11769.0	0.0	3.7	100		24	18.44	6.07
11770.0	0.0	2.8	100		22	18.40	6.07
11771.0	0.0	2.2	100		22	18.37	6.07
11772.0	0.0	3.5	100		17	18.35	6.07
11773.0	0.0	4.3	73		17	18.31	6.06
11774.0	0.0	4.1	66		21	18.27	6.05
11775.0	0.1	5.2	45		19	18.23	6.03
11776.0	0.0	3.0	100		30	18.18	6.01
11777.0	0.0	3.1	100		38	18.15	6.01
11778.0	0.0	2.4	100		40	18.12	6.01
11779.0	0.0	2.2	100		29	18.09	6.01
11780.0	0.0	0.0	100		38	18.08	6.01
11781.0	0.0	0.0	100		48	18.08	6.01
11782.0	0.1	5.1	48		48	18.06	6.01
11786.0	0.0	2.3	100		47	17.94	5.99
11787.0	0.0	3.6	100		46	17.91	5.99
11788.0	0.0	2.5	100		39	17.87	5.99
11793.0	0.0	2.4	100		50	17.84	5.99
11796.0	0.0	0.0	100		50	17.76	5.99
11797.0	0.0	0.0	100		46	17.76	5.99
11798.0	0.0	0.9	100		41	17.76	5.99
11799.0	0.0	0.7	100		41	17.75	5.99
11802.0	0.0	0.0	100		43	17.75	5.99
11803.0	0.0	1.1	100		35	17.75	5.99
11804.0	0.0	2.3	100		28	17.74	5.99
11805.0	0.0	5.0	96		15	17.71	5.99

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11806.0	0.0	5.6	75		11	17.65	5.99
11807.0	0.1	5.6	63		12	17.60	5.97
11808.0	0.1	6.0	55		13	17.54	5.95
11809.0	0.1	6.0	48		13	17.48	5.92
11810.0	0.2	6.8	52		8	17.42	5.89
11811.0	0.1	6.2	62		10	17.35	5.86
11812.0	0.0	4.3	86		19	17.30	5.84
11813.0	0.0	3.5	100		26	17.25	5.84
11814.0	0.0	4.8	71		23	17.22	5.84
11815.0	0.0	6.3	68		11	17.17	5.82
11816.0	0.1	6.8	62		7	17.10	5.80
11817.0	0.1	6.3	52		10	17.03	5.77
11818.0	0.2	6.2	48		12	16.97	5.74
11819.0	0.1	5.2	55		13	16.91	5.71
11820.0	0.0	3.7	77		17	16.86	5.69
11821.0	0.0	2.8	100		19	16.83	5.69
11822.0	0.0	2.1	100		21	16.80	5.69
11823.0	0.0	2.6	100		20	16.78	5.69
11824.0	0.0	3.9	100		17	16.75	5.69
11825.0	0.0	3.9	66		18	16.71	5.68
11826.0	0.0	3.8	68		17	16.67	5.67
11827.0	0.0	3.9	69		16	16.63	5.66
11828.0	0.0	4.2	68		17	16.59	5.64
11829.0	0.0	3.6	100		25	16.55	5.63
11830.0	0.0	2.2	100		42	16.52	5.63
11831.0	0.0	2.9	100		46	16.50	5.63
11835.0	0.0	0.5	100		44	16.46	5.63
11836.0	0.0	0.1	100		46	16.46	5.63
11837.0	0.0	0.0	100		48	16.46	5.63
11838.0	0.0	0.0	100		41	16.46	5.63
11839.0	0.0	0.2	100		41	16.46	5.63
11840.0	0.0	0.0	100		43	16.45	5.63
11841.0	0.0	0.0	100		46	16.45	5.63
11842.0	0.0	0.0	100		38	16.45	5.63
11843.0	0.0	0.1	100		34	16.45	5.63
11844.0	0.0	3.3	100		29	16.44	5.63
11845.0	0.0	4.7	54		33	16.40	5.62
11846.0	0.0	3.7	95		33	16.36	5.60
11847.0	0.0	3.6	100		24	16.32	5.60
11848.0	0.0	4.4	90		17	16.28	5.60
11849.0	0.0	4.3	90		20	16.24	5.59
11850.0	0.0	5.2	77		16	16.20	5.59
11851.0	0.0	5.0	89		12	16.14	5.58
11852.0	0.0	4.7	93		12	16.10	5.57
11853.0	0.0	4.5	95		13	16.05	5.57
11854.0	0.0	2.9	100		20	16.01	5.57
11855.0	0.0	2.9	100		21	15.98	5.57

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11856.0	0.0	3.9	100		17	15.95	5.57
11857.0	0.0	3.6	100		18	15.91	5.57
11858.0	0.0	4.1	87		17	15.87	5.57
11859.0	0.0	4.5	78		15	15.83	5.56
11860.0	0.0	4.1	90		17	15.79	5.55
11861.0	0.0	4.8	79		14	15.75	5.54
11862.0	0.0	4.9	80		14	15.70	5.53
11863.0	0.0	4.0	100		16	15.65	5.53
11864.0	0.0	2.8	100		17	15.61	5.53
11865.0	0.0	2.0	100		22	15.59	5.53
11866.0	0.0	2.3	100		20	15.57	5.53
11867.0	0.0	2.3	100		21	15.54	5.53
11868.0	0.0	1.8	100		25	15.52	5.53
11869.0	0.0	1.0	100		29	15.51	5.53
11870.0	0.0	1.4	100		31	15.49	5.53
11871.0	0.0	0.0	100		48	15.49	5.53
11875.0	0.0	0.4	100		49	15.48	5.53
11876.0	0.0	2.4	100		45	15.47	5.53
11877.0	0.0	2.6	100		45	15.44	5.53
11878.0	0.0	0.0	100		49	15.43	5.53
11879.0	0.0	0.0	100		46	15.43	5.53
11880.0	0.0	0.0	100		40	15.43	5.53
11881.0	0.0	1.7	100		29	15.43	5.53
11882.0	0.0	3.8	80		15	15.40	5.53
11883.0	0.0	4.1	72		14	15.36	5.52
11884.0	0.0	4.5	59		13	15.32	5.50
11885.0	0.0	4.7	64		13	15.28	5.49
11886.0	0.1	5.6	58		10	15.23	5.47
11887.0	0.1	5.3	56		12	15.17	5.44
11888.0	0.0	4.5	64		15	15.12	5.42
11889.0	0.0	4.4	65		14	15.07	5.41
11890.0	0.0	4.5	61		14	15.03	5.39
11891.0	0.0	4.2	65		15	14.98	5.37
11892.0	0.0	3.8	70		15	14.94	5.36
11893.0	0.0	3.1	100		15	14.91	5.35
11894.0	0.0	3.5	73		12	14.88	5.35
11895.0	0.0	3.6	72		13	14.84	5.34
11896.0	0.0	3.5	71		14	14.80	5.33
11897.0	0.0	3.2	95		15	14.77	5.32
11898.0	0.0	3.3	81		16	14.74	5.31
11899.0	0.0	3.9	63		14	14.70	5.30
11900.0	0.0	3.7	64		15	14.66	5.29
11901.0	0.0	3.5	72		16	14.63	5.28
11902.0	0.0	3.7	67		17	14.59	5.27
11903.0	0.1	5.1	44		17	14.55	5.26
11904.0	0.1	6.1	48		10	14.50	5.23
11905.0	0.3	6.9	48		7	14.43	5.19

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11906.0	0.2	6.9	51		10	14.36	5.16
11907.0	0.1	5.6	55		18	14.30	5.13
11908.0	0.0	5.2	61		21	14.24	5.10
11909.0	0.0	4.9	70		21	14.19	5.08
11910.0	0.0	4.3	78		22	14.15	5.07
11911.0	0.0	4.4	67		25	14.11	5.06
11912.0	0.0	4.5	65		21	14.06	5.05
11913.0	0.0	4.9	66		14	14.02	5.03
11914.0	0.0	4.1	72		20	13.97	5.02
11915.0	0.0	3.0	100		39	13.94	5.01
11916.0	0.1	5.0	47		28	13.90	5.00
11917.0	0.3	6.8	46		13	13.85	4.97
11918.0	0.3	6.7	39		12	13.78	4.93
11919.0	0.1	5.6	41		12	13.71	4.89
11920.0	0.1	5.2	44		13	13.66	4.86
11921.0	0.0	3.9	64		15	13.61	4.84
11922.0	0.0	3.6	70		15	13.57	4.82
11923.0	0.0	3.9	62		17	13.54	4.81
11924.0	0.0	4.7	48		18	13.50	4.80
11925.0	0.0	3.4	99		18	13.45	4.78
11926.0	0.0	3.0	100		20	13.42	4.78
11927.0	0.0	2.7	100		26	13.39	4.78
11928.0	0.0	3.6	100		23	13.36	4.78
11929.0	0.0	3.6	99		22	13.32	4.77
11930.0	0.0	3.3	100		17	13.29	4.77
11931.0	0.0	2.9	100		18	13.26	4.77
11932.0	0.0	2.3	100		19	13.23	4.77
11933.0	0.0	3.4	70		17	13.21	4.77
11934.0	0.1	5.2	34		16	13.17	4.76
11935.0	0.0	3.8	53		28	13.12	4.72
11936.0	0.0	1.7	100		33	13.08	4.71
11937.0	0.0	0.0	100		29	13.07	4.71
11938.0	0.0	1.8	100		29	13.07	4.71
11939.0	0.0	3.1	100		23	13.05	4.71
11940.0	0.0	4.6	65		12	13.01	4.70
11941.0	0.0	5.0	58		13	12.97	4.68
11942.0	0.0	4.5	66		12	12.92	4.66
11943.0	0.0	4.6	67		12	12.87	4.65
11944.0	0.0	4.7	74		12	12.83	4.63
11945.0	0.0	4.9	66		12	12.78	4.62
11946.0	0.0	5.2	64		12	12.73	4.60
11947.0	0.1	5.8	61		11	12.68	4.58
11948.0	0.1	5.4	61		11	12.62	4.56
11949.0	0.0	4.1	73		14	12.57	4.54
11950.0	0.0	3.3	100		17	12.53	4.53
11951.0	0.0	3.8	69		15	12.49	4.53
11952.0	0.0	2.8	100		25	12.46	4.52
11953.0	0.0	2.0	100		26	12.43	4.52

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11954.0	0.0	3.3	100		19	12.41	4.52
11955.0	0.0	4.1	90		20	12.37	4.52
11956.0	0.0	4.1	79		27	12.34	4.52
11957.0	0.0	6.2	67		16	12.29	4.50
11958.0	0.0	6.1	74		11	12.23	4.48
11959.0	0.1	6.0	58		12	12.17	4.47
11960.0	0.0	5.2	69		12	12.11	4.44
11961.0	0.0	4.4	80		15	12.06	4.43
11962.0	0.0	4.6	74		15	12.02	4.42
11963.0	0.0	5.2	65		13	11.97	4.41
11964.0	0.0	4.7	68		14	11.92	4.39
11965.0	0.0	5.0	62		12	11.87	4.37
11966.0	0.0	5.1	59		12	11.82	4.35
11967.0	0.0	4.9	60		13	11.77	4.33
11968.0	0.0	4.4	63		14	11.72	4.31
11969.0	0.0	3.6	78		15	11.68	4.30
11970.0	0.0	3.7	75		15	11.64	4.29
11971.0	0.0	3.7	75		18	11.60	4.28
11972.0	0.0	4.1	65		18	11.57	4.27
11973.0	0.0	4.6	58		14	11.52	4.26
11974.0	0.0	4.8	58		14	11.48	4.24
11975.0	0.0	4.7	56		13	11.43	4.22
11976.0	0.0	4.6	59		13	11.38	4.20
11977.0	0.0	4.4	65		13	11.34	4.18
11978.0	0.0	4.7	60		14	11.29	4.16
11979.0	0.1	5.1	53		12	11.24	4.14
11980.0	0.1	5.9	45		12	11.19	4.11
11981.0	2	8.8	34	0.5	8	11.13	4.08
11982.0	2	9.1	32	0.5	8	11.03	4.01
11983.0	0.1	5.8	43		14	10.95	3.96
11984.0	0.1	5.7	47		13	10.90	3.93
11985.0	0.1	5.6	50		12	10.84	3.90
11986.0	0.0	4.9	58		13	10.78	3.87
11987.0	0.0	3.6	86		16	10.74	3.86
11988.0	0.0	3.5	99		14	10.71	3.85
11989.0	0.0	4.9	62		12	10.67	3.85
11990.0	0.1	5.5	58		12	10.61	3.83
11991.0	0.0	4.9	58		14	10.56	3.80
11992.0	0.0	4.2	68		15	10.51	3.79
11993.0	0.0	4.1	70		15	10.47	3.77
11994.0	0.0	4.4	65		15	10.43	3.76
11995.0	0.0	4.4	61		21	10.39	3.75
11996.0	0.0	4.8	53		20	10.34	3.73
11997.0	0.1	5.4	56		14	10.29	3.70
11998.0	0.1	6.2	55		12	10.24	3.68
11999.0	0.2	6.6	55		11	10.17	3.65
12000.0	0.3	7.4	56		7	10.11	3.62
12001.0	0.3	7.4	57		7	10.03	3.59

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12002.0	0.2	7.1	59		8	9.96	3.56
12003.0	0.2	7.3	60		7	9.89	3.53
12004.0	0.2	7.4	59		6	9.82	3.50
12005.0	0.5	8.2	54		5	9.74	3.47
12006.0	0.4	7.8	49		9	9.66	3.43
12007.0	0.6	8.1	46		5	9.58	3.39
12008.0	0.6	7.8	41	0.7	9	9.50	3.34
12009.0	0.1	5.3	42		20	9.42	3.29
12010.0	0.0	3.0	100		25	9.37	3.27
12011.0	0.0	3.5	77		22	9.34	3.27
12012.0	0.1	5.3	50		15	9.30	3.25
12013.0	0.2	6.4	51		9	9.24	3.22
12014.0	0.2	6.7	52		8	9.18	3.19
12015.0	0.2	7.1	54		7	9.11	3.16
12016.0	0.2	7.0	52		10	9.04	3.13
12017.0	0.1	5.3	56		21	8.97	3.10
12018.0	0.1	6.4	55		15	8.92	3.07
12019.0	0.1	5.8	58		13	8.85	3.04
12020.0	0.1	5.7	56		16	8.79	3.02
12021.0	0.1	6.2	57		12	8.74	2.99
12022.0	0.1	5.4	59		14	8.67	2.97
12023.0	0.0	2.9	100		21	8.63	2.95
12024.0	0.0	2.3	100		25	8.60	2.95
12025.0	0.0	3.2	100		22	8.58	2.95
12026.0	0.0	3.5	88		19	8.54	2.95
12027.0	0.0	3.8	75		17	8.51	2.94
12028.0	0.0	4.2	67		14	8.47	2.93
12029.0	0.0	4.5	66		13	8.43	2.92
12030.0	0.0	4.1	72		14	8.38	2.90
12031.0	0.0	3.6	93		16	8.34	2.89
12032.0	0.0	3.8	74		17	8.31	2.89
12033.0	0.0	4.5	63		16	8.27	2.88
12034.0	0.0	4.8	61		12	8.22	2.86
12035.0	0.1	5.3	58		10	8.17	2.84
12036.0	0.0	5.2	61		11	8.12	2.82
12037.0	0.0	4.5	74		12	8.07	2.80
12038.0	0.0	3.6	100		16	8.02	2.79
12039.0	0.0	3.5	100		19	7.99	2.79
12040.0	0.0	3.9	76		18	7.95	2.79
12041.0	0.0	4.1	69		17	7.91	2.78
12042.0	0.0	4.0	67		16	7.87	2.77
12043.0	0.0	4.6	60		13	7.83	2.75
12044.0	0.1	5.1	49		13	7.78	2.73
12045.0	0.1	5.2	48		15	7.73	2.71
12046.0	0.0	3.0	100		21	7.68	2.68
12047.0	0.0	1.7	100		26	7.66	2.68
12048.0	0.0	0.3	100		37	7.64	2.68
12051.0	0.0	0.0	100		42	7.64	2.68

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12052.0	0.0	0.0	100		40	7.64	2.68
12053.0	0.0	0.0	100		48	7.64	2.68
12054.0	0.0	2.4	100		40	7.62	2.68
12055.0	0.0	2.2	100		35	7.60	2.68
12056.0	0.0	2.4	100		32	7.58	2.68
12057.0	0.0	3.2	100		28	7.55	2.68
12058.0	0.0	3.4	100		22	7.52	2.68
12059.0	0.0	2.2	100		23	7.49	2.68
12060.0	0.0	2.9	100		20	7.46	2.68
12061.0	0.0	5.2	69		11	7.43	2.68
12062.0	0.2	6.9	60		6	7.38	2.66
12063.0	0.4	7.8	52		4	7.30	2.63
12064.0	0.3	7.5	51		5	7.23	2.59
12065.0	0.4	7.5	50		5	7.15	2.56
12066.0	0.3	7.1	51		6	7.08	2.52
12067.0	0.2	7.0	51		7	7.00	2.49
12068.0	0.2	6.6	52		9	6.93	2.45
12069.0	0.2	7.0	53		7	6.87	2.42
12070.0	0.2	6.7	54		8	6.80	2.39
12071.0	0.1	5.8	58		11	6.73	2.36
12072.0	0.1	5.9	59		10	6.68	2.33
12073.0	0.1	5.6	59		12	6.62	2.31
12074.0	0.0	5.4	63		13	6.56	2.29
12075.0	0.2	6.6	57		8	6.51	2.27
12076.0	0.1	5.9	56		10	6.44	2.24
12077.0	0.1	5.7	55		10	6.38	2.21
12078.0	0.1	5.4	54		11	6.33	2.19
12079.0	0.0	4.5	65		12	6.27	2.16
12080.0	0.0	4.7	60		13	6.23	2.15
12081.0	0.0	4.8	61		13	6.18	2.13
12082.0	0.0	5.0	60		12	6.13	2.11
12083.0	0.1	5.4	57		12	6.08	2.09
12084.0	0.1	5.7	55		12	6.03	2.07
12085.0	0.2	6.4	51		10	5.97	2.04
12086.0	0.1	6.1	52		11	5.91	2.01
12087.0	0.0	4.6	64		14	5.85	1.98
12088.0	0.0	4.6	68		14	5.80	1.97
12089.0	0.1	5.9	65		11	5.76	1.95
12090.0	0.0	6.0	72		13	5.70	1.93
12091.0	0.0	2.7	100		30	5.64	1.92
12092.0	0.0	0.0	100		41	5.62	1.92
12093.0	0.0	0.8	100		41	5.61	1.92
12094.0	0.0	1.1	100		38	5.61	1.92
12095.0	0.0	1.9	100		40	5.59	1.92
12096.0	0.0	2.9	100		42	5.57	1.92
12097.0	0.0	3.7	100		45	5.54	1.92
12098.0	0.0	3.2	100		41	5.50	1.92
12099.0	0.0	1.9	100		33	5.47	1.92

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12100.0	0.0	2.0	100		23	5.46	1.92
12101.0	0.0	2.0	100		24	5.44	1.92
12102.0	0.0	1.3	100		30	5.42	1.92
12103.0	0.0	2.0	100		35	5.40	1.92
12104.0	0.0	0.5	100		43	5.38	1.92
12105.0	0.0	0.0	100		47	5.38	1.92
12106.0	0.0	3.8	72		35	5.37	1.92
12107.0	0.0	2.5	100		31	5.34	1.92
12108.0	0.0	0.4	100		38	5.31	1.92
12109.0	0.0	2.6	100		38	5.30	1.92
12110.0	0.0	0.7	100		37	5.28	1.92
12111.0	0.0	1.1	100		32	5.28	1.92
12112.0	0.0	4.5	82		20	5.26	1.92
12113.0	0.1	6.3	60		12	5.20	1.90
12114.0	0.1	6.6	58		9	5.14	1.87
12115.0	0.1	5.9	58		13	5.08	1.85
12116.0	0.1	5.3	57		16	5.02	1.82
12117.0	0.1	5.2	56		13	4.97	1.80
12118.0	0.1	5.9	50		9	4.91	1.78
12119.0	0.3	6.8	44		6	4.85	1.75
12120.0	0.2	6.1	42		10	4.79	1.71
12121.0	0.3	6.5	41		10	4.72	1.67
12122.0	0.6	7.4	38	0.7	8	4.65	1.63
12123.0	0.3	6.7	40		9	4.58	1.58
12124.0	0.1	5.3	39		12	4.52	1.55
12125.0	0.0	4.7	63		14	4.47	1.52
12126.0	0.1	4.8	42		13	4.42	1.50
12127.0	0.1	4.7	44		13	4.37	1.47
12128.0	0.1	4.6	43		13	4.32	1.44
12129.0	0.2	5.6	36		11	4.28	1.41
12130.0	0.1	5.5	40		11	4.22	1.38
12131.0	0.1	5.3	37		14	4.17	1.35
12132.0	0.4	6.2	30		15	4.11	1.31
12133.0	0.3	5.2	24		18	4.05	1.27
12134.0	0.1	4.5	35		12	4.00	1.23
12135.0	0.0	0.0	0		0	0.00	0.00
12136.0	0.0	0.0	0		0	0.00	0.00
12143.0	0.0	2.2	100		49	3.89	1.22
12145.0	0.0	4.6	74		38	3.83	1.21
12147.0	0.0	2.7	100		46	3.74	1.20
12148.0	0.0	2.5	100		45	3.72	1.20
12149.0	0.0	0.3	100		45	3.70	1.20
12150.0	0.0	0.1	100		49	3.69	1.20
12154.0	0.0	3.7	100		46	3.66	1.20

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12155.0	0.0	4.2	100		42	3.62	1.20
12156.0	0.0	4.0	100		45	3.58	1.20
12157.0	0.0	4.5	100		41	3.54	1.20
12158.0	0.0	3.9	100		26	3.50	1.20
12159.0	0.0	4.5	80		22	3.46	1.20
12172.0	0.0	0.0	100		47	3.28	1.18
12173.0	0.0	0.0	100		48	3.28	1.18
12174.0	0.0	0.0	0		0	0.00	0.00
12175.0	0.0	0.0	0		0	0.00	0.00
12176.0	0.0	0.0	0		0	0.00	0.00
12177.0	0.0	0.0	0		0	0.00	0.00
12178.0	0.0	0.0	0		0	0.00	0.00
12179.0	0.0	0.0	0		0	0.00	0.00
12180.0	0.0	0.0	0		0	0.00	0.00
12181.0	0.0	0.0	0		0	0.00	0.00
12182.0	0.0	0.0	0		0	0.00	0.00
12183.0	0.0	0.0	0		0	0.00	0.00
12184.0	0.0	0.0	0		0	0.00	0.00
12185.0	0.0	0.0	0		0	0.00	0.00
12186.0	0.0	0.0	0		0	0.00	0.00
12192.0	0.0	0.0	0		0	0.00	0.00
12193.0	0.0	0.0	0		0	0.00	0.00
12195.0	0.0	3.8	58		37	3.09	1.08
12196.0	0.1	4.7	32		32	3.04	1.06
12197.0	0.2	4.6	20		45	2.99	1.02
12198.0	0.0	0.0	0		0	0.00	0.00
12199.0	0.0	0.0	0		0	0.00	0.00
12200.0	0.0	0.0	0		0	0.00	0.00
12201.0	0.0	0.0	0		0	0.00	0.00
12202.0	0.0	3.9	67		16	2.97	1.00
12205.0	0.2	4.8	23		50	2.94	0.99
12206.0	0.3	6.2	33		16	2.88	0.95
12207.0	3	8.3	21	0.4	13	2.81	0.91
12208.0	20	12.2	18		0	2.72	0.83
12209.0	0.2	5.4	32		11	2.63	0.75
12210.0	0.0	0.0	0		0	0.00	0.00
12211.0	0.0	0.0	0		0	0.00	0.00
12214.0	0.0	0.0	0		0	0.00	0.00
12218.0	0.0	0.0	0		0	0.00	0.00
12219.0	0.0	0.0	0		0	0.00	0.00
12220.0	0.0	0.0	0		0	0.00	0.00
12230.0	0.0	0.0	100		44	2.15	0.50

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12231.0	0.0	1.7	100		45	2.15	0.50
12232.0	0.0	3.2	100		35	2.13	0.50
12233.0	0.0	4.5	47		23	2.09	0.49
12234.0	0.5	6.7	33		15	2.04	0.46
12235.0	0.0	2.9	100		30	1.98	0.42
12236.0	0.0	3.3	92		46	1.95	0.42
12237.0	0.0	3.6	61		39	1.91	0.40
12239.0	0.0	3.7	68		47	1.86	0.39
12241.0	0.0	0.0	100		43	1.84	0.39
12242.0	0.0	3.1	100		25	1.84	0.39
12243.0	0.0	0.0	100		43	1.81	0.39
12253.0	0.0	1.1	100		45	1.66	0.37
12254.0	0.0	2.9	100		31	1.63	0.37
12255.0	0.0	2.1	100		42	1.61	0.37
12256.0	0.0	2.1	100		49	1.58	0.37
12268.0	0.0	1.8	100		31	1.38	0.37
12269.0	0.0	0.9	100		41	1.35	0.37
12271.0	0.0	2.8	100		45	1.33	0.37
12272.0	0.0	0.0	0		0	0.00	0.00
12273.0	0.0	4.0	88		10	1.30	0.37
12277.0	0.0	3.4	100		40	1.21	0.36
12282.0	0.0	0.0	100		41	1.15	0.36
12283.0	0.0	0.1	100		39	1.15	0.36
12284.0	0.0	2.5	100		33	1.15	0.36
12285.0	0.0	2.9	100		34	1.12	0.36
12286.0	0.0	3.5	95		30	1.09	0.36
12287.0	0.0	3.9	59		29	1.06	0.36
12288.0	0.0	3.5	64		35	1.02	0.34
12289.0	0.0	2.2	100		40	0.98	0.33
12290.0	0.0	2.1	100		48	0.96	0.33
12292.0	0.0	3.1	100		44	0.91	0.33
12293.0	0.0	0.8	100		42	0.89	0.33
12295.0	0.3	6.7	41		44	0.85	0.33
12299.0	0.0	3.2	100		40	0.79	0.31
12303.0	0.0	0.8	100		23	0.74	0.31
12304.0	0.0	0.1	100		23	0.74	0.31
12305.0	0.0	0.1	100		21	0.74	0.31

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12306.0	0.0	2.6	100		13	0.73	0.31
12307.0	0.0	3.7	58		11	0.70	0.31
12308.0	0.1	4.5	42		9	0.66	0.29
12309.0	0.2	5.8	33		5	0.61	0.26
12310.0	0.4	6.4	32	0.5	7	0.55	0.22
12311.0	0.4	6.5	35	0.7	7	0.49	0.18
12312.0	0.3	6.5	36		5	0.42	0.13
12313.0	0.3	6.4	38		5	0.36	0.09
12314.0	0.1	5.0	47		13	0.30	0.06
12315.0	0.0	0.0	100		43	0.26	0.04
12317.0	0.0	0.2	100		44	0.25	0.04
12318.0	0.0	0.4	100		38	0.25	0.04
12319.0	0.0	0.1	100		41	0.25	0.04
12335.0	0.0	0.5	100		44	0.22	0.04
12336.0	0.0	0.0	100		46	0.21	0.04
12337.0	0.0	0.0	100		42	0.21	0.04
12338.0	0.0	0.0	0		0	0.00	0.00
12339.0	0.0	0.0	0		0	0.00	0.00
12340.0	0.0	0.0	0		0	0.00	0.00
12341.0	0.0	0.0	0		0	0.00	0.00
12342.0	0.0	0.0	0		0	0.00	0.00
12343.0	0.0	0.0	0		0	0.00	0.00
12344.0	6	6.8	10		38	0.21	0.04
12345.0	0.0	3.9	100		17	0.16	0.01
12346.0	0.0	1.5	100		37	0.12	0.01
12355.0	0.0	0.0	0		0	0.00	0.00
12356.0	0.0	0.0	0		0	0.00	0.00
12357.0	0.1	6.8	65		39	0.06	0.01
12358.0	0.0	0.5	100		47	0.00	0.00

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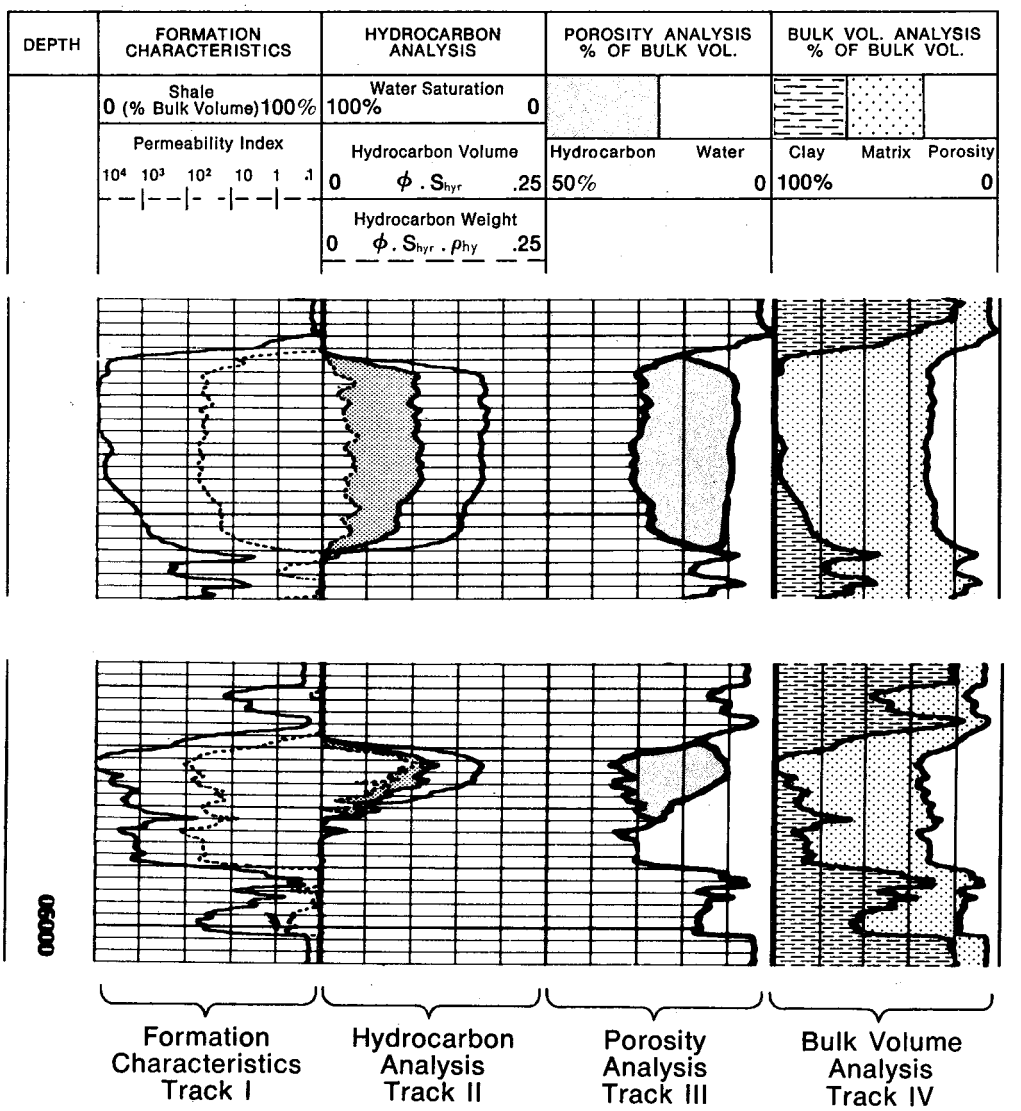
SARABAND A Sandstone Analysis



Formation Characteristics - Track I

Shale Volume (V_{sh})—Bulk volume fraction of shale, both wet clay and silt. V_{sh} is computed from neutron-density data from a special logic relating other shale indicators (SP, GR and Resistivity) to the volume of shale. This is an excellent correlation curve which should permit the differentiation between sands, shale and shaly sands.
Permeability Index—The scale for this curve is a 5-cycle logarithmic scale.

Hydrocarbon Analysis - Track II

Water Saturation (S_w)—Fraction of pore volume filled with formation water.
Hydrocarbon Volume ($\phi \cdot S_{hyr}$)—Residual hydrocarbon per bulk volume where S_{hyr} is residual hydrocarbon saturation.
Hydrocarbon Weight ($\phi \cdot S_{hyr} \cdot \rho_{hy}$)—Weight of residual hydrocarbon per bulk volume where ρ_{hy} is the density of the hydrocarbon.
The two curves, $\phi \cdot S_{hyr}$ and $\phi \cdot S_{hyr} \cdot \rho_{hy}$, converge in oil zones since the density of oil is close to unity. In light hydrocarbon zones, the two curves diverge.
The ratio of $\phi \cdot S_{hyr} \cdot \rho_{hy}$ to $\phi \cdot S_{hyr}$ is the hydrocarbon density.
The values of hydrocarbon density derived from the computation appear on the tabular listing.

Porosity Volume Analysis - Track III

Porosity (ϕ)—Formation porosity corrected for hydrocarbon and shale effect.
Water-filled Porosity ($\phi \cdot S_w$)—Represents the formation water in the pore space (in per cent of bulk volume).
The area between the two curves corresponds to hydrocarbon-filled porosity.

Bulk Volume Analysis - Track IV

Clay Volume (V_{clay})—SARABAND logic assumes shale to consist of wet clay and silt. V_{clay} represents only the bulk volume fraction of wet clay, whereas V_{sh} of Track I represents the total shale bulk volume (clay plus silt).
Matrix (V_{matrix})—Bulk volume fraction of non-clay solids (includes silt).
Porosity (ϕ)—Formation porosity corrected for hydrocarbon and shale effects.

Tabular Listing

1 DEPTH FEET	2 PERM INDEX MD	3 POROSITY PERCENT	4 WATER SATURATION PERCENT	5 HYDRO- CARBON DENSITY GM/CC	6 CLAY PERCENT	7 TOTAL POROSITY FEET	8 TOTAL HYDRO- CARBON FEET

Partial Listing of Gas Zone in Upper Log Example

7425	50	25.8	61	.1	2	64.57	6.59
7426	190	28.6	42	.2	2	64.85	6.74
7427	400	30.4	31	.1	2	65.15	6.93
7428	400	29.0	30	.3	0	65.44	7.14
7429	400	28.3	28	.3	0	65.73	7.34
7430	500	29.5	28	.2	0	66.02	7.55
7431	300	28.7	30	.2	0	66.31	7.76
7432	300	27.1	30	.3	0	66.59	7.95
7433	500	29.6	28	.2	0	66.88	8.16
7434	400	28.1	28	.2	0	67.16	8.36
7435	400	28.8	27	.3	0	67.45	8.57
7436	400	29.0	28	.3	0	67.74	8.78
7437	400	29.2	30	.4	1	68.03	8.99
7438	500	30.3	30	.4	2	68.33	9.19
7439	600	31.3	29	.2	3	68.64	9.41
7440	500	31.0	30	.3	4	69.95	9.63
7441	400	30.1	30	.3	2	69.26	9.84
7442	600	31.3	29	.3	1	69.57	10.06
7443	500	30.3	30	.4	2	69.87	10.27
7444	600	31.1	29	.3	2	70.18	10.49
7445	500	31.1	29	.2	3	70.49	10.71
7446	400	30.3	31	.3	4	70.80	10.92
7447	300	29.7	32	.3	6	71.10	11.13
7448	300	28.7	34	.3	8	71.39	11.32

Partial Listing of Oil-Water Zone in Lower Log Example

5968	0	11.8	100		49	1.36	.00
5969	4	15.8	99		33	1.51	.00
5970	17	19.0	78		26	1.69	.03
5971	90	25.7	49	.4	19	1.93	.14
5972	500	33.0	35	.7*	3	2.24	.33
5973	800	34.4	30	.7*	0	2.58	.56
5974	700	33.6	30	.7*	0	2.93	.81
5975	500	32.0	32	.7*	3	3.26	1.03
5976	800	35.2	32	.7*	5	3.59	1.25
5977	600	35.5	38	.7*	5	3.94	1.47
5978	160	30.1	52	.7	14	4.25	1.63
5979	170	32.1	58	.5	10	4.57	1.77
5980	300	28.1	80		10	4.87	1.86
5981	400	30.3	74	.1	15	5.17	1.93
5982	200	29.2	83		25	5.47	1.98
5983	200	27.0	97		19	5.72	1.99
5984	300	29.0	98		17	6.00	1.99
5985	1200	33.9	96		8	6.35	2.01
5986	400	30.1	99		13	6.67	2.01
5987	400	29.7	100		13	6.96	2.01
5988	400	29.6	100		14	7.26	2.01
5989	500	30.2	99		12	7.56	2.01
5990	190	27.0	99		20	7.84	2.02
5991	0	13.0	100		47	8.01	2.02

SARABAND
A Sandstone Analysis

Tabular Listing Data

Column 1	Depth in feet.
Column 2	Permeability index in millidarcies.
Column 3	Formation porosity in percent from Neutron-Density data after correction for hydrocarbon and shale effects.
Column 4	Water saturation in percent.
Column 5	Density in gm/cc of hydrocarbon. Hydrocarbon densities in the range between .7 gm/cc and 1.0 gm/cc are all listed as .7* in the tabular listing.
Column 6	V_{clay}, the fraction of bulk volume occupied by wet clay.
Column 7	Total cumulative porosity—feet from the top of the computed section.
Column 8	Total cumulative hydrocarbon—feet from the top of the computed section.

The cumulative numbers in columns 7 and 8 can be used respectively to calculate reservoir pore space and volume of hydrocarbons in place. The total pore space, in barrels per acre, is equal to the difference in the numbers of column 7 at the top and bottom of the zone of interest multiplied by 7758. A similar calculation yields the total barrels per acre of hydrocarbons in place.

SARABAND

A Sandstone Analysis

- Continuous computation of log data.
- Analog and tabular listing of results.
- Analysis of sands—both clean and shaly.

SARABAND is computed using the following logs:

Resistivity — from the Induction Log, Dual Induction or Laterolog.

Density — from FDC—Formation Density Compensated Log.

Neutron — from SNP—Sidewall Neutron Log, or CNP—Compensated Neutron Log.

Sonic — from BHC—Borehole Compensated Sonic Log.

And SP and Gamma Ray are run in conjunction with the above logs.

TABULAR LISTING

OF

S A R A B A N D

A SANDSTONE ANALYSIS

COMPANY	EXXON COMPANY U.S.A. #1
WELL	WILKINS RIDGE UNIT
FIELD	WILDCAT (COMPOSITE RUN)
COUNTY	DUCHESNE
STATE	UTAH
DATE	21-AR-75

TAPE IDENT. RM-10022 EXXON CO. USA #1,WILKINS RIDGE UNIT,W/C,DUCHESNE,UTAH

LS	LD	LN	LXO	LSN	LILM	LILD	LSP	LGR	LCAL
15	14	11	0	70	71	66	6	19	18

SP BASE LINE SHIFT

NONE

CWSP ARRAY	40.	40.	65.	65.	75.	85.	0.	0.
RW ARRAY	0.200	0.200	0.200	0.200	0.160	0.300	0.000	0.000
AT DEPTH	12360.	11450.	9400.	7300.	5130.	4600.	0.	0.
AT TEMP	0.	0.	0.	0.	0.	0.	0.	0.
TOP DEPTH	11450.	9400.	7300.	5130.	4600.	0.	0.	0.

ROG ARRAY	2.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DTMA ARRAY	51.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZSNMA ARRAY	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOP DEPTH	0.	0.	0.	0.	0.	0.	0.	0.

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```
ISS -  2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
       0 2 0 1 0 0 1 0  1  0  0  0  0  0  0  0  1  0  0  0  0

INPUT PARAMETERS FROM  4600. TO  3020.

 WMUD XLIT BITSZ  BHT BHTDEP SUFT   RMF RMFT ROMFS PHIMFS DASIL
 12.7 0.50  7.88 187. 12400.  60.  0.30 187. 1.005  0.994 0.600

  SPCK  DSPCK RODC DELRGM START STOPLG ZSPNL  BGN ZSPDL   REC  RESH CSS
    0.      0. 2.84  0.20 12360. 3020. 0.000 1.00-0.030 13.90  5.30 0.2

  WHY PHILEV  BR SLIM    AK   PK  SK STOPIN PHIMAX PHINCL PHIDCL
 .200  0.000 .10 0.30 62500. 6.0 2.0     0.  0.200  0.290  0.025

 PHINSO  RTPM  PUN  DAX DALIM DAGA DASH DTSD DTSH  CP  PSSH
  0.160  432. .015 100.   75.  65. 120. 150. 150. 1.00 .200

 EDIAM  PNLIM  PDLIM   RLIM  GRLIM VARMC  CONST  ROP VARLIM   CSF
  0.00   1.00   1.00 1000.0 1000.0  0.07  0.333  0.31  0.20  0.50

SP STATISTICS OVER ENTIRE INTERVAL


RESISTIVITY STATISTICS OVER ENTIRE INTERVAL


GAMMA - RAY STATISTICS OVER ENTIRE INTERVAL


SONIC STATISTICS OVER ENTIRE INTERVAL

GAMMARAY NOT USED IN CORRECTION OF DOUBTFUL POROSITY DATA
ANALYSIS BY QUASI MODEL
PERMEABILITY BY TIMUR EQUATION
GR COEFF. FROM STATISTICS
SONIC COEFF. FROM STATISTICS
WASAMP ROUTINE USED
```

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3020.0	0.0	5.3	100		43	141.81	21.58
3029.0	0.0	4.7	100		47	141.75	21.58
3030.0	0.0	4.6	100		48	141.70	21.58
3032.0	0.0	6.7	100		39	141.64	21.58
3033.0	0.0	7.0	100		30	141.57	21.58
3034.0	0.0	5.9	100		37	141.50	21.58
3035.0	0.0	5.7	100		42	141.45	21.58
3036.0	0.0	5.3	100		46	141.39	21.58
3037.0	0.0	4.6	100		50	141.34	21.58
3039.0	0.0	6.9	100		41	141.25	21.58
3040.0	0.1	9.2	72		27	141.17	21.57
3041.0	0.1	8.9	70		28	141.08	21.55
3042.0	0.1	8.5	72		29	140.99	21.52
3043.0	0.0	7.3	100		31	140.91	21.50
3044.0	0.0	7.5	100		25	140.83	21.50
3045.0	0.0	5.0	100		35	140.76	21.50
3056.0	0.0	5.3	100		42	140.69	21.50
3057.0	0.3	10.4	74		2	140.62	21.49
3058.0	0.1	8.8	100		0	140.52	21.48
3059.0	0.0	8.2	100		0	140.43	21.48
3060.0	0.1	8.9	100		0	140.35	21.48
3061.0	0.2	9.7	100		1	140.26	21.48
3062.0	0.0	6.1	100		23	140.17	21.48
3063.0	0.0	4.7	100		45	140.12	21.48
3064.0	0.0	5.4	100		46	140.07	21.48
3068.0	0.1	8.8	100		30	139.90	21.48
3069.0	0.1	9.0	100		34	139.81	21.48
3070.0	0.1	9.5	100		34	139.73	21.48
3071.0	0.7	12.1	100		25	139.62	21.48
3072.0	1	13.4	100		24	139.50	21.48
3073.0	2	14.2	100		21	139.36	21.48
3074.0	3	14.7	100		18	139.22	21.48
3075.0	5	15.5	100		16	139.07	21.48
3076.0	5	15.7	100		15	138.91	21.48
3077.0	3	14.6	100		20	138.76	21.48
3078.0	2	14.3	100		22	138.62	21.48
3079.0	4	15.3	100		19	138.47	21.48
3080.0	4	15.1	100		18	138.32	21.48
3081.0	5	15.7	100		17	138.17	21.48
3082.0	8	16.5	100		15	138.01	21.48
3083.0	10	17.9	100		11	137.84	21.48
3084.0	10	17.2	98		13	137.66	21.48
3085.0	3	14.9	98		18	137.50	21.47

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3086.0	0.0	8.3	100		36	137.36	21.47
3088.0	0.0	7.3	100		9	137.27	21.47
3089.0	0.1	8.9	100		0	137.19	21.47
3090.0	0.1	8.3	100		8	137.10	21.47
3091.0	0.0	6.4	100		19	137.02	21.47
3092.0	0.0	1.7	100		46	136.97	21.47
3093.0	0.0	4.9	100		46	136.95	21.47
3111.0	0.0	7.2	100		33	136.85	21.47
3112.0	0.1	8.6	78		33	136.77	21.47
3113.0	0.5	11.5	67		24	136.68	21.44
3114.0	2	12.9	65		20	136.56	21.40
3115.0	0.5	11.5	67		27	136.43	21.36
3116.0	0.1	9.0	82		30	136.32	21.33
3117.0	0.0	4.9	100		44	136.24	21.32
3126.0	0.0	6.0	100		34	136.18	21.32
3127.0	0.0	5.7	100		36	136.12	21.32
3128.0	0.0	4.9	100		46	136.06	21.32
3129.0	0.0	5.4	100		44	136.02	21.32
3130.0	0.0	6.0	100		38	135.96	21.32
3131.0	0.0	4.7	100		48	135.90	21.32
3135.0	0.0	5.0	100		47	135.87	21.32
3141.0	0.0	4.4	100		30	135.82	21.32
3142.0	0.0	4.5	100		34	135.78	21.32
3143.0	0.0	6.4	100		41	135.73	21.32
3152.0	0.0	4.0	100		48	135.68	21.32
3153.0	0.0	5.1	100		42	135.64	21.32
3154.0	0.0	5.7	100		39	135.58	21.32
3155.0	0.0	4.8	100		47	135.53	21.32
3160.0	0.0	6.3	100		36	135.46	21.32
3161.0	0.0	7.1	100		32	135.39	21.32
3162.0	0.0	8.3	79		30	135.32	21.32
3163.0	0.1	8.4	98		30	135.24	21.30
3164.0	0.0	8.0	100		32	135.16	21.30
3165.0	0.0	7.0	100		35	135.08	21.30
3166.0	0.0	6.5	100		37	135.01	21.30
3167.0	0.0	6.7	100		37	134.95	21.30
3168.0	0.1	8.4	100		32	134.87	21.30
3169.0	0.0	8.1	100		35	134.79	21.30
3170.0	0.0	7.9	100		34	134.71	21.30
3171.0	0.1	8.7	100		31	134.63	21.30
3172.0	0.1	9.4	85		26	134.54	21.30

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DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3173.0	0.1	9.6	78		27	134.44	21.28
3174.0	0.1	8.9	80		31	134.35	21.26
3175.0	0.0	7.1	100		36	134.26	21.25
3176.0	0.0	5.2	100		45	134.20	21.25
3180.0	0.0	6.4	100		43	134.16	21.25
3181.0	6	15.9	82		17	134.07	21.25
3182.0	0.0	0.0	100		49	133.90	21.20
3191.0	0.0	3.8	100		48	133.89	21.20
3192.0	0.0	5.0	100		34	133.85	21.20
3193.0	0.0	5.4	100		33	133.80	21.20
3194.0	0.0	4.9	100		37	133.74	21.20
3195.0	0.0	5.0	100		40	133.69	21.20
3196.0	0.0	4.1	100		46	133.65	21.20
3199.0	0.0	5.5	100		47	133.58	21.20
3200.0	0.0	8.3	100		37	133.52	21.20
3201.0	0.2	10.0	99		31	133.43	21.20
3202.0	1	12.9	91		19	133.32	21.20
3203.0	1	13.1	89		16	133.19	21.19
3204.0	0.6	11.6	99		22	133.06	21.18
3205.0	0.5	11.6	97		26	132.95	21.18
3206.0	2	13.8	91		17	132.83	21.17
3207.0	2	13.5	94		19	132.69	21.16
3208.0	0.8	12.3	100		23	132.56	21.15
3209.0	0.9	12.5	100		25	132.43	21.15
3210.0	0.9	12.4	100		26	132.31	21.15
3211.0	0.0	5.7	100		47	132.20	21.15
3213.0	0.0	8.1	100		49	132.08	21.15
3214.0	0.1	9.6	100		40	132.00	21.15
3215.0	0.7	12.0	100		26	131.89	21.15
3216.0	1	13.2	100		25	131.77	21.15
3217.0	4	14.9	100		18	131.63	21.15
3218.0	6	15.8	100		9	131.48	21.15
3219.0	6	15.7	100		3	131.32	21.15
3220.0	7	15.9	100		4	131.16	21.15
3221.0	6	15.7	100		5	131.00	21.15
3222.0	5	15.4	100		9	130.85	21.15
3223.0	4	15.3	100		13	130.69	21.15
3224.0	2	13.5	100		18	130.54	21.15
3225.0	0.5	11.4	100		28	130.41	21.15
3226.0	0.5	11.4	100		30	130.30	21.15
3227.0	0.2	10.1	100		35	130.19	21.15
3228.0	0.2	10.4	100		37	130.09	21.15
3229.0	0.3	11.0	100		34	129.99	21.15
3230.0	0.6	11.8	100		31	129.87	21.15

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3231.0	0.6	11.8	100		31	129.75	21.15
3232.0	0.6	12.0	100		30	129.64	21.15
3233.0	2	13.5	100		22	129.51	21.15
3234.0	2	13.8	100		17	129.37	21.15
3235.0	1	13.2	100		20	129.24	21.15
3236.0	2	14.1	100		18	129.10	21.15
3237.0	2	13.5	100		21	128.96	21.15
3238.0	1	12.9	100		23	128.83	21.15
3239.0	0.1	8.9	100		36	128.70	21.15
3248.0	0.1	9.0	100		27	128.52	21.15
3249.0	0.1	9.3	100		29	128.43	21.15
3250.0	0.0	6.9	100		40	128.34	21.15
3251.0	0.0	7.0	100		49	128.27	21.15
3252.0	0.0	7.9	100		47	128.20	21.15
3253.0	0.4	11.1	100		30	128.12	21.15
3254.0	2	13.8	93		25	128.00	21.15
3255.0	3	14.3	99		15	127.86	21.14
3256.0	1	12.8	99		16	127.72	21.14
3257.0	0.4	10.9	100		18	127.60	21.14
3258.0	0.0	6.4	100		36	127.50	21.14
3267.0	0.0	7.1	100		37	127.42	21.14
3268.0	0.0	5.7	100		41	127.35	21.14
3273.0	0.0	4.3	100		30	127.28	21.14
3274.0	0.0	5.9	100		20	127.24	21.14
3275.0	0.0	4.7	100		46	127.18	21.14
3276.0	0.0	4.5	100		49	127.13	21.14
3277.0	0.0	7.0	100		31	127.08	21.14
3278.0	0.0	5.8	100		43	127.01	21.14
3280.0	0.0	8.1	100		36	126.90	21.14
3281.0	0.0	8.2	100		33	126.82	21.14
3282.0	0.0	6.9	100		34	126.74	21.14
3283.0	0.0	5.5	100		41	126.68	21.14
3284.0	0.0	5.7	100		39	126.62	21.14
3285.0	0.0	6.2	100		26	126.56	21.14
3286.0	0.0	6.3	100		33	126.50	21.14
3287.0	0.0	7.9	98		33	126.43	21.14
3288.0	0.1	9.2	79		32	126.35	21.13
3289.0	0.2	10.1	86		32	126.25	21.12
3290.0	0.2	10.2	76		33	126.15	21.10
3291.0	0.2	10.5	81		29	126.05	21.08
3292.0	0.2	9.8	84		32	125.95	21.06
3293.0	0.1	9.4	82		33	125.85	21.04
3294.0	0.0	7.4	100		40	125.76	21.03
3297.0	0.0	7.1	100		27	125.65	21.03

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3298.0	0.1	8.4	100		0	125.56	21.02
3299.0	0.0	7.1	100		0	125.48	21.02
3300.0	0.0	7.3	100		0	125.41	21.02
3301.0	0.3	10.7	100		0	125.32	21.02
3302.0	0.0	8.1	100		35	125.21	21.02
3303.0	0.0	6.0	100		36	125.14	21.02
3304.0	0.0	4.1	100		32	125.08	21.02
3305.0	0.0	3.9	100		37	125.04	21.02
3306.0	0.0	5.7	100		38	125.00	21.02
3307.0	0.0	8.2	100		34	124.94	21.02
3308.0	2	13.8	90		25	124.84	21.02
3314.0	0.0	0.3	100		44	124.76	21.01
3315.0	0.0	4.3	100		32	124.75	21.01
3316.0	0.0	7.0	100		33	124.70	21.01
3317.0	2	13.6	76		24	124.62	21.01
3318.0	0.0	0.0	100		46	124.46	20.96
3333.0	0.0	5.9	100		27	124.43	20.96
3334.0	0.0	6.3	100		24	124.37	20.96
3335.0	0.0	4.0	100		42	124.31	20.96
3345.0	0.0	2.4	100		42	124.27	20.96
3346.0	0.0	1.0	100		39	124.24	20.96
3347.0	0.0	0.2	100		47	124.24	20.96
3350.0	0.0	5.0	100		39	124.20	20.96
3351.0	0.0	5.3	100		41	124.15	20.96
3352.0	0.0	4.1	100		48	124.10	20.96
3355.0	0.0	0.9	100		49	124.06	20.96
3356.0	0.0	3.2	100		45	124.05	20.96
3357.0	0.0	4.7	100		39	124.01	20.96
3358.0	0.0	7.3	75		35	123.96	20.96
3359.0	0.3	8.0	64		32	123.88	20.93
3360.0	0.0	6.8	100		29	123.80	20.91
3361.0	0.0	4.4	100		36	123.74	20.91
3365.0	0.0	2.0	100		40	123.68	20.91
3366.0	0.0	4.5	100		35	123.64	20.91
3368.0	0.0	2.6	100		46	123.61	20.91
3369.0	0.0	4.3	100		41	123.57	20.91
3375.0	0.0	0.0	100		47	123.53	20.91
3380.0	0.1	9.5	74		13	123.50	20.91
3381.0	0.3	10.5	71		0	123.41	20.89

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3382.0	0.0	7.3	100		23	123.31	20.87
3383.0	0.0	7.5	100		32	123.24	20.87
3384.0	0.1	8.8	79		27	123.16	20.86
3385.0	0.1	9.6	75		30	123.07	20.84
3386.0	0.1	9.3	85		31	122.97	20.82
3387.0	0.0	5.0	100		47	122.89	20.81
3394.0	0.0	5.2	100		41	122.83	20.81
3395.0	0.1	9.5	92		17	122.77	20.81
3396.0	0.0	6.9	100		26	122.68	20.81
3397.0	0.0	4.4	100		43	122.62	20.81
3398.0	0.1	9.1	73		32	122.57	20.81
3399.0	.2	11.8	58		29	122.46	20.77
3400.0	0.6	9.1	56		38	122.35	20.72
3401.0	0.2	7.5	59		40	122.27	20.68
3402.0	0.0	4.6	100		46	122.20	20.66
3411.0	0.0	0.0	100		48	122.13	20.66
3412.0	0.0	0.0	100		44	122.13	20.66
3420.0	0.0	0.7	100		47	122.13	20.66
3427.0	0.0	1.2	100		49	122.11	20.66
3428.0	0.0	4.7	100		35	122.08	20.66
3432.0	0.5	9.2	63		12	122.03	20.66
3433.0	0.0	7.0	68		6	121.94	20.63
3434.0	0.0	1.4	100		34	121.88	20.62
3435.0	0.0	4.0	100		37	121.86	20.62
3436.0	0.0	4.5	100		44	121.82	20.62
3437.0	0.0	4.5	100		39	121.78	20.62
3438.0	0.0	4.7	100		41	121.73	20.62
3439.0	0.0	3.2	100		42	121.69	20.62
3440.0	0.0	4.1	100		45	121.66	20.62
3441.0	0.0	4.9	100		49	121.61	20.62
3442.0	0.0	4.5	100		49	121.56	20.62
3446.0	0.0	4.2	100		40	121.50	20.62
3447.0	0.0	3.8	100		34	121.46	20.62
3448.0	0.0	4.0	100		33	121.42	20.62
3449.0	0.0	4.3	100		39	121.38	20.62
3450.0	0.0	4.5	100		47	121.34	20.62
3454.0	0.0	0.9	100		49	121.28	20.62
3461.0	0.0	0.4	100		47	121.24	20.62
3471.0	0.0	0.9	100		49	121.22	20.62

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3472.0	0.0	1.1	100		48	121.21	20.62
3474.0	0.0	2.1	100		47	121.19	20.62
3475.0	0.0	4.4	100		39	121.16	20.62
3476.0	0.0	5.3	100		36	121.12	20.62
3477.0	0.0	5.8	96		35	121.06	20.62
3478.0	0.0	6.5	71		32	121.00	20.61
3479.0	0.0	6.4	69		35	120.94	20.59
3480.0	0.2	6.9	56		32	120.87	20.57
3481.0	0.3	7.5	53		29	120.80	20.54
3482.0	0.3	7.6	51		31	120.73	20.50
3483.0	0.4	7.8	49		33	120.65	20.46
3484.0	0.3	7.5	52		33	120.57	20.42
3485.0	0.4	7.8	49		33	120.50	20.39
3486.0	0.6	8.1	48		32	120.42	20.35
3487.0	0.1	6.5	59		40	120.34	20.31
3488.0	0.1	6.6	57		39	120.27	20.28
3489.0	0.9	9.0	47		29	120.20	20.25
3490.0	2	10.7	45		21	120.11	20.20
3491.0	1	9.9	46		24	120.00	20.14
3492.0	0.3	7.4	52		35	119.91	20.09
3493.0	0.0	5.0	99		48	119.84	20.06
3495.0	0.0	5.8	92		46	119.74	20.06
3496.0	1	9.6	46		27	119.68	20.04
3497.0	2	10.0	46		20	119.58	19.98
3498.0	0.7	8.7	48		24	119.48	19.93
3499.0	0.8	8.8	48		25	119.39	19.89
3500.0	0.1	6.7	60		31	119.31	19.84
3501.0	0.0	6.0	94		36	119.25	19.83
3502.0	0.3	7.5	51		40	119.18	19.82
3503.0	1	10.0	47		30	119.10	19.78
3504.0	2	10.7	48		24	119.00	19.73
3505.0	1	10.2	49		23	118.90	19.67
3506.0	1	10.2	49		20	118.79	19.62
3507.0	0.5	8.3	52		26	118.69	19.57
3508.0	0.0	5.5	98		36	118.62	19.53
3509.0	0.0	4.6	100		39	118.57	19.53
3510.0	0.0	5.6	99		31	118.52	19.53
3512.0	0.0	4.3	100		49	118.45	19.53
3513.0	0.0	5.7	98		41	118.40	19.53
3514.0	0.0	5.5	100		30	118.35	19.53
3515.0	0.0	4.6	100		37	118.29	19.53
3516.0	0.0	1.7	100		48	118.25	19.53
3525.0	0.0	6.4	100		16	118.11	19.53
3526.0	0.0	7.7	100		0	118.04	19.53

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3527.0	0.0	7.8	100		0	117.96	19.53
3528.0	0.0	7.4	100		0	117.88	19.53
3529.0	0.3	10.8	71		0	117.80	19.53
3530.0	3	13.2	61		0	117.68	19.49
3531.0	1	11.6	66		3	117.55	19.44
3532.0	0.0	7.6	80		27	117.45	19.40
3533.0	0.0	6.5	100		36	117.38	19.40
3534.0	0.0	7.2	97		38	117.31	19.40
3535.0	0.0	7.4	81		37	117.24	19.39
3536.0	0.0	4.9	100		40	117.17	19.38
3537.0	0.0	5.7	100		32	117.12	19.38
3538.0	0.0	5.2	100		39	117.06	19.38
3542.0	0.0	0.2	100		36	117.01	19.38
3543.0	0.0	1.0	100		33	117.01	19.38
3544.0	0.0	0.3	100		43	117.00	19.38
3545.0	0.0	5.7	100		21	116.98	19.38
3546.0	0.9	12.4	85		16	116.91	19.38
3547.0	0.0	0.0	100		48	116.76	19.34
3559.0	0.0	0.0	100		48	116.76	19.34
3560.0	0.0	0.0	100		39	116.76	19.34
3561.0	0.0	0.2	100		28	116.76	19.34
3562.0	0.0	0.5	100		37	116.75	19.34
3564.0	0.0	5.0	100		29	116.74	19.34
3565.0	0.0	7.8	100		9	116.69	19.34
3566.0	0.0	7.4	100		18	116.61	19.34
3567.0	0.0	4.7	100		40	116.54	19.34
3568.0	0.0	6.3	100		32	116.49	19.34
3569.0	0.0	7.9	100		20	116.42	19.34
3570.0	0.2	10.1	92		10	116.34	19.34
3571.0	0.4	11.0	87		19	116.23	19.33
3572.0	5	16.1	69		25	116.11	19.31
3581.0	0.0	6.5	100		40	116.00	19.28
3582.0	1	12.7	100		17	115.91	19.28
3583.0	1	13.0	100		14	115.79	19.28
3584.0	7	16.1	100		3	115.65	19.28
3585.0	6	15.6	100		8	115.49	19.28
3586.0	5	15.4	100		10	115.33	19.28
3587.0	4	15.2	100		13	115.18	19.28
3588.0	5	15.6	100		13	115.02	19.28
3589.0	6	15.8	100		8	114.87	19.28
3590.0	5	15.4	100		10	114.71	19.28
3591.0	4	15.0	100		11	114.56	19.28
3592.0	1	12.8	100		14	114.41	19.28
3593.0	0.6	11.7	100		22	114.28	19.28

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3594.0	1	12.5	100		13	114.16	19.28
3595.0	0.8	12.1	100		4	114.04	19.28
3596.0	0.3	10.7	100		13	113.92	19.28
3597.0	0.1	9.7	100		26	113.82	19.28
3598.0	0.8	12.1	100		9	113.71	19.28
3599.0	0.8	12.0	100		1	113.59	19.28
3600.0	1	12.6	100		2	113.47	19.28
3601.0	4	14.8	100		2	113.34	19.28
3602.0	7	15.8	100		4	113.19	19.28
3603.0	1	12.8	100		5	113.03	19.28
3604.0	0.2	9.9	100		11	112.92	19.28
3605.0	0.1	8.7	100		24	112.82	19.28
3611.0	0.4	11.3	96		25	112.72	19.28
3612.0	4	15.2	82		16	112.59	19.27
3613.0	0.0	5.6	100		25	112.49	19.25
3630.0	0.0	5.0	100		43	112.44	19.25
3631.0	0.0	7.2	100		36	112.39	19.25
3632.0	0.0	7.1	100		40	112.31	19.25
3633.0	0.0	6.1	100		43	112.24	19.25
3634.0	0.1	8.9	100		29	112.17	19.25
3635.0	0.1	9.2	100		32	112.08	19.25
3636.0	0.2	10.2	100		25	111.99	19.25
3637.0	0.4	11.2	100		24	111.88	19.25
3638.0	0.3	10.8	100		24	111.77	19.25
3639.0	0.0	7.2	100		36	111.67	19.25
3641.0	0.0	6.7	100		48	111.55	19.25
3642.0	0.3	11.0	100		31	111.48	19.25
3643.0	4	14.9	100		17	111.35	19.25
3644.0	5	15.5	100		14	111.20	19.25
3645.0	5	15.7	100		15	111.05	19.25
3646.0	8	16.6	100		11	110.89	19.25
3647.0	10	16.9	79		11	110.72	19.25
3648.0	8	16.4	100		11	110.55	19.23
3649.0	6	15.7	100		11	110.39	19.23
3650.0	6	15.8	99		12	110.23	19.23
3651.0	4	15.3	88		24	110.08	19.23
3658.0	0.0	4.0	100		50	109.95	19.22
3660.0	0.0	7.7	100		37	109.90	19.22
3661.0	0.0	8.0	100		33	109.82	19.22
3668.0	0.0	0.4	100		45	109.75	19.22
3669.0	0.0	2.9	100		28	109.73	19.22
3677.0	0.0	4.3	100		28	109.71	19.22

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3680.0	0.0	1.7	100		48	109.68	19.22
3681.0	0.0	1.1	100		48	109.66	19.22
3692.0	0.0	6.7	100		42	109.60	19.22
3693.0	0.8	12.1	100		21	109.51	19.22
3694.0	0.9	12.5	100		20	109.39	19.22
3695.0	0.8	12.2	100		22	109.27	19.22
3696.0	0.7	12.0	100		24	109.14	19.22
3697.0	0.9	12.5	100		22	109.02	19.22
3698.0	0.8	12.3	100		22	108.90	19.22
3699.0	0.5	11.4	100		26	108.78	19.22
3700.0	0.0	7.3	100		40	108.67	19.22
3701.0	0.0	5.1	100		42	108.60	19.22
3702.0	0.0	5.8	100		31	108.55	19.22
3703.0	0.0	4.8	100		32	108.49	19.22
3710.0	0.0	1.2	100		45	108.45	19.22
3711.0	0.0	1.4	100		48	108.43	19.22
3724.0	0.0	0.1	100		48	108.40	19.22
3725.0	0.0	0.6	100		42	108.39	19.22
3726.0	0.0	2.3	100		46	108.38	19.22
3727.0	0.0	5.2	100		43	108.35	19.22
3728.0	0.0	6.1	100		41	108.30	19.22
3729.0	0.1	9.0	100		31	108.23	19.22
3730.0	0.4	11.1	99		17	108.13	19.22
3731.0	0.2	10.2	100		20	108.02	19.22
3732.0	0.2	10.2	99		20	107.92	19.22
3733.0	0.4	10.9	96		16	107.82	19.22
3734.0	0.1	9.6	100		23	107.71	19.21
3735.0	0.0	7.0	100		34	107.63	19.21
3736.0	0.0	8.3	100		37	107.55	19.21
3737.0	0.1	9.4	100		34	107.47	19.21
3738.0	0.2	10.3	97		28	107.37	19.21
3739.0	0.8	12.1	91		13	107.26	19.21
3740.0	0.6	11.5	82		12	107.14	19.19
3741.0	0.1	8.8	88		20	107.03	19.17
3742.0	0.0	3.1	100		41	106.96	19.17
3757.0	0.0	4.6	100		47	106.93	19.17
3758.0	0.7	12.0	99		25	106.85	19.17
3759.0	0.9	12.5	100		24	106.73	19.17
3760.0	2	13.7	100		17	106.60	19.17
3761.0	2	13.6	100		20	106.46	19.17
3762.0	3	14.8	99		17	106.32	19.17
3763.0	2	14.1	100		19	106.18	19.17
3764.0	0.6	11.7	100		27	106.04	19.17

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3765.0	0.0	6.8	100		43	105.94	19.17
3766.0	0.0	7.2	100		42	105.87	19.17
3767.0	0.2	10.3	100		31	105.79	19.17
3768.0	0.0	7.1	100		41	105.69	19.17
3770.0	0.0	6.1	100		47	105.58	19.17
3771.0	0.2	10.3	100		33	105.50	19.17
3772.0	1	12.8	100		26	105.39	19.17
3773.0	4	15.2	99		18	105.26	19.17
3774.0	7	16.5	95		20	105.10	19.16
3775.0	10	17.4	81		19	104.93	19.15
3776.0	8	16.5	87		16	104.76	19.12
3777.0	8	16.6	89		15	104.60	19.10
3778.0	7	16.2	86		16	104.43	19.08
3779.0	7	16.4	88		17	104.27	19.06
3780.0	4	15.2	76		21	104.11	19.03
3781.0	2	13.7	85		21	103.96	19.00
3782.0	0.3	10.9	100		23	103.82	18.99
3783.0	0.0	6.8	100		37	103.73	18.99
3790.0	0.7	11.9	98		23	103.61	18.99
3791.0	0.6	11.7	80		24	103.49	18.98
3792.0	0.1	9.3	84		32	103.38	18.95
3793.0	0.0	7.7	100		38	103.29	18.95
3799.0	0.1	9.1	100		34	103.20	18.95
3800.0	0.0	0.0	100		48	103.09	18.94
3801.0	0.0	0.0	100		50	103.09	18.94
3802.0	0.0	0.0	100		50	103.09	18.94
3803.0	0.0	0.0	100		46	103.09	18.94
3804.0	0.0	0.0	100		50	103.09	18.94
3818.0	0.0	5.2	100		45	103.02	18.94
3825.0	0.0	7.9	100		32	102.94	18.94
3826.0	0.1	8.6	100		33	102.86	18.94
3827.0	0.0	6.9	100		41	102.77	18.94
3833.0	0.0	2.8	100		43	102.65	18.94
3834.0	0.0	6.4	100		39	102.61	18.94
3835.0	0.9	10.2	62		35	102.54	18.93
3836.0	3	13.2	63		19	102.43	18.88
3837.0	1	12.4	68		12	102.29	18.84
3838.0	0.2	9.7	74		18	102.18	18.80
3839.0	0.0	5.9	100		38	102.09	18.78
3840.0	0.0	3.1	100		47	102.03	18.78
3857.0	0.0	0.1	100		50	101.99	18.78

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3858.0	0.0	0.2	100		43	101.99	18.78
3859.0	0.0	1.6	100		41	101.99	18.78
3871.0	0.0	4.0	100		25	101.93	18.78
3872.0	0.0	4.3	100		22	101.89	18.78
3873.0	0.0	2.4	100		50	101.86	18.78
3876.0	0.0	4.6	100		43	101.80	18.78
3877.0	0.0	5.7	100		45	101.75	18.78
3880.0	0.0	7.0	100		41	101.69	18.78
3881.0	0.0	8.0	100		32	101.62	18.78
3882.0	0.0	7.1	100		34	101.54	18.78
3883.0	0.0	4.1	100		47	101.47	18.78
3891.0	0.1	9.3	100		46	101.23	18.78
3892.0	1	12.8	100		32	101.13	18.78
3893.0	5	15.4	100		14	100.99	18.78
3894.0	10	16.9	100		9	100.83	18.78
3895.0	10	17.1	100		7	100.66	18.78
3896.0	10	17.6	100		7	100.49	18.78
3897.0	10	17.7	100		6	100.32	18.78
3898.0	10	17.1	100		9	100.14	18.78
3899.0	8	16.6	100		11	99.97	18.78
3900.0	10	16.9	100		6	99.80	18.78
3901.0	7	16.0	94		5	99.64	18.78
3902.0	1	12.6	100		12	99.48	18.77
3903.0	0.0	8.0	100		18	99.37	18.77
3904.0	0.0	4.6	100		26	99.30	18.77
3910.0	0.0	5.3	100		20	99.24	18.77
3911.0	0.0	4.1	100		27	99.19	18.77
3912.0	0.0	3.0	100		42	99.17	18.77
3913.0	0.0	6.2	100		31	99.13	18.77
3914.0	0.0	6.8	100		33	99.06	18.77
3915.0	0.0	5.9	100		44	98.99	18.77
3924.0	0.0	3.3	100		47	98.91	18.77
3925.0	0.0	2.4	100		42	98.88	18.77
3926.0	0.0	3.6	100		46	98.86	18.77
3928.0	0.0	5.3	100		45	98.81	18.77
3929.0	0.0	7.4	100		31	98.75	18.77
3930.0	0.0	7.0	100		36	98.68	18.77
3931.0	0.0	6.6	100		37	98.61	18.77
3932.0	0.0	6.8	100		33	98.54	18.77
3933.0	0.0	6.4	100		37	98.48	18.77
3934.0	0.0	5.5	100		39	98.41	18.77

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
3945.0	0.0	0.0	100		49	98.32	18.77
3946.0	0.0	0.0	100		47	98.32	18.77
3967.0	0.0	0.2	100		32	98.31	18.77
3968.0	0.0	0.0	100		42	98.31	18.77
3969.0	0.0	0.0	100		49	98.31	18.77
3977.0	0.0	4.8	100		36	98.30	18.77
3978.0	0.1	8.5	100		0	98.24	18.77
3979.0	0.0	6.9	100		9	98.16	18.77
3980.0	0.0	0.8	100		35	98.10	18.77
3982.0	0.0	4.5	100		49	98.09	18.77
3983.0	0.0	6.8	100		34	98.03	18.77
3984.0	0.0	6.0	100		36	97.97	18.77
3985.0	0.0	3.4	100		49	97.91	18.77
3991.0	0.0	4.7	100		48	97.88	18.77
3992.0	0.0	6.5	100		34	97.83	18.77
3993.0	0.0	6.2	100		26	97.76	18.77
3994.0	0.0	4.5	100		32	97.70	18.77
3995.0	0.0	4.5	100		44	97.66	18.77
4000.0	20	19.0	52	0.8*	5	97.54	18.75
4001.0	20	18.2	46	0.8*	7	97.35	18.65
4002.0	30	18.4	42	0.8*	9	97.17	18.55
4003.0	30	19.2	46	0.8*	7	96.99	18.44
4004.0	10	17.5	54	0.7	13	96.79	18.34
4005.0	0.3	10.8	79		25	96.63	18.27
4007.0	0.0	7.1	100		39	96.56	18.26
4008.0	6	15.9	73		13	96.44	18.24
4009.0	8	16.9	64		10	96.28	18.19
4010.0	8	16.3	60	0.5	13	96.11	18.13
4011.0	7	16.3	65	0.6	7	95.95	18.07
4012.0	7	16.7	66	0.8*	1	95.79	18.01
4013.0	6	15.7	74		4	95.62	17.96
4014.0	5	15.4	73		10	95.47	17.92
4015.0	6	15.8	70		13	95.31	17.88
4016.0	0.5	11.4	84		28	95.15	17.83
4017.0	0.3	11.0	91		29	95.05	17.82
4018.0	4	14.9	76		17	94.92	17.79
4019.0	7	16.4	68		15	94.76	17.75
4020.0	0.0	8.3	100		35	94.61	17.71
4021.0	0.2	10.4	82		32	94.53	17.71
4022.0	0.1	9.5	77		33	94.43	17.69
4027.0	0.1	8.6	100		32	94.29	17.68

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4028.0	0.9	12.5	75		26	94.19	17.67
4029.0	1	12.7	75		29	94.06	17.63
4030.0	0.3	10.9	85		33	93.94	17.60
4031.0	0.3	10.7	88		34	93.84	17.60
4032.0	1	13.4	72		30	93.72	17.57
4033.0	2	14.4	72		28	93.58	17.53
4034.0	5	15.8	71		17	93.44	17.49
4035.0	10	17.6	85		9	93.28	17.45
4036.0	10	17.8	71		11	93.10	17.41
4037.0	10	17.4	75		7	92.92	17.36
4038.0	10	17.5	79		5	92.75	17.32
4039.0	10	17.8	78		8	92.57	17.28
4040.0	20	18.0	82		7	92.39	17.24
4041.0	20	18.5	87		4	92.21	17.21
4042.0	30	19.2	83		4	92.03	17.19
4043.0	30	19.2	84		5	91.84	17.16
4044.0	30	20.0	80		6	91.64	17.13
4045.0	40	20.5	84		5	91.44	17.09
4046.0	40	20.0	87		5	91.24	17.06
4047.0	40	20.4	85		1	91.04	17.03
4048.0	50	20.7	81		0	90.83	17.00
4049.0	40	20.3	81		4	90.63	16.96
4050.0	30	19.8	68		11	90.42	16.91
4051.0	20	19.1	72		18	90.23	16.85
4052.0	3	14.6	95		25	90.05	16.81
4053.0	0.2	10.5	100		30	89.91	16.81
4054.0	3	14.8	100		15	89.80	16.81
4055.0	30	19.5	82		10	89.64	16.80
4056.0	20	19.2	76		13	89.44	16.76
4057.0	30	19.5	78		9	89.25	16.72
4058.0	50	20.9	75		6	89.05	16.67
4059.0	30	20.0	77		9	88.84	16.62
4060.0	40	20.5	74		6	88.64	16.57
4061.0	30	19.9	73		7	88.44	16.52
4062.0	20	19.2	74		11	88.24	16.47
4063.0	20	19.3	68		16	88.05	16.42
4064.0	20	19.5	57	0.2	29	87.85	16.35
4065.0	10	18.0	60		21	87.66	16.26
4066.0	0.8	12.1	98		13	87.50	16.21
4067.0	0.1	8.4	100		29	87.39	16.21
4087.0	0.0	5.0	100		45	87.23	16.21
4088.0	0.0	5.7	100		42	87.18	16.21
4089.0	0.0	7.0	100		43	87.12	16.21
4112.0	5	15.7	83		15	87.08	16.21
4113.0	0.3	10.7	100		13	86.94	16.19
4114.0	0.1	9.5	89		12	86.83	16.19

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4115.0	0.3	10.4	76		16	86.74	16.18
4116.0	4	15.4	68		17	86.62	16.15
4117.0	4	15.3	82		17	86.45	16.09
4118.0	0.0	0.0	100		46	86.37	16.07
4119.0	0.0	0.0	100		44	86.37	16.07
4120.0	0.0	0.0	100		45	86.37	16.07
4121.0	0.0	0.0	100		46	86.37	16.07
4122.0	0.0	0.0	100		44	86.37	16.07
4123.0	40	20.4	96		0	86.37	16.07
4124.0	30	19.3	90		2	86.21	16.06
4125.0	20	20.8	59		13	86.02	16.02
4126.0	0.0	0.0	100		48	85.86	15.98
4138.0	0.0	0.0	100		48	85.86	15.98
4145.0	0.0	0.0	100		47	85.26	15.68
4156.0	10	17.2	72		14	85.15	15.66
4157.0	60	23.5	49		15	84.97	15.60
4158.0	0.0	0.6	100		43	84.79	15.53
4160.0	30	21.6	58		14	84.60	15.46
4161.0	0.0	0.0	100		45	84.39	15.39
4162.0	0.0	0.0	100		50	84.39	15.39
4164.0	20	17.6	100		0	84.30	15.37
4165.0	4	14.8	100		4	84.14	15.37
4166.0	4	15.2	90		15	83.99	15.37
4167.0	10	17.1	89		12	83.83	15.35
4168.0	10	17.4	100		3	83.65	15.34
4169.0	20	18.7	100		2	83.48	15.34
4170.0	30	19.8	90		7	83.29	15.33
4171.0	20	18.2	92		10	83.09	15.31
4172.0	6	16.0	90		17	82.92	15.29
4173.0	3	14.8	76		22	82.76	15.27
4174.0	3	14.5	68		26	82.61	15.23
4175.0	5	15.0	64		28	82.47	15.18
4176.0	1	13.1	76		28	82.31	15.13
4178.0	0.5	11.4	98		28	82.17	15.11
4179.0	0.2	9.9	100		32	82.05	15.11
4180.0	0.0	6.8	100		40	81.97	15.11
4181.0	0.8	12.3	100		26	81.89	15.11
4182.0	0.2	10.4	100		30	81.77	15.11
4183.0	1	13.3	100		21	81.65	15.11
4184.0	0.2	9.8	100		27	81.53	15.11
4185.0	0.0	6.5	100		38	81.43	15.11
4188.0	0.0	3.8	100		48	81.37	15.11

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4189.0	0.0	4.5	100		47	81.33	15.11
4195.0	0.0	1.2	100		33	81.28	15.11
4196.0	0.0	4.2	100		31	81.26	15.11
4244.0	0.0	4.0	100		34	81.24	15.11
4245.0	0.0	2.7	100		28	81.20	15.11
4248.0	0.0	1.4	100		24	81.18	15.11
4249.0	0.0	4.2	100		29	81.15	15.11
4255.0	2	14.0	76		23	81.08	15.10
4256.0	0.0	0.0	100		48	80.91	15.05
4274.0	0.0	6.4	100		23	80.87	15.05
4275.0	0.0	4.5	100		24	80.79	15.05
4292.0	0.0	7.5	100		39	80.75	15.05
4307.0	0.0	2.8	100		43	80.63	15.05
4308.0	0.0	3.3	100		43	80.60	15.05
4367.0	0.0	7.0	100		24	80.51	15.05
4368.0	0.0	7.8	100		12	80.43	15.05
4369.0	0.0	6.7	100		14	80.36	15.05
4370.0	0.0	6.8	100		13	80.29	15.05
4371.0	0.0	4.0	100		29	80.23	15.05
4376.0	0.0	0.0	100		49	80.21	15.05
4377.0	0.0	0.0	100		37	80.21	15.05
4382.0	0.0	0.0	100		25	80.21	15.05
4383.0	0.0	0.0	100		22	80.21	15.05
4384.0	0.0	0.0	100		33	80.21	15.05
4415.0	0.0	4.0	100		26	80.21	15.05
4416.0	0.0	6.3	100		13	80.16	15.05
4417.0	0.2	7.2	63		11	80.10	15.04
4418.0	0.0	5.8	100		23	80.03	15.02
4419.0	0.0	5.2	100		26	79.97	15.02
4420.0	0.0	5.7	100		18	79.92	15.02
4421.0	0.0	6.4	100		18	79.86	15.02
4422.0	0.0	7.1	100		21	79.79	15.02
4423.0	0.0	1.4	100		46	79.73	15.02
4440.0	0.0	0.5	100		26	79.72	15.02
4441.0	0.0	6.6	100		0	79.72	15.02
4442.0	0.0	5.4	100		0	79.65	15.02

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4443.0	0.0	7.6	100		0	79.60	15.02
4444.0	3	14.5	86		0	79.51	15.02
4445.0	40	22.9	60		0	79.34	14.98
4449.0	0.0	4.3	100		14	79.07	14.88
4450.0	0.0	4.8	100		2	79.03	14.88
4451.0	0.0	6.7	100		6	78.98	14.88
4452.0	0.0	1.4	100		48	78.92	14.88
4458.0	0.0	5.6	100		45	78.85	14.88
4459.0	0.4	10.9	73		18	78.77	14.87
4460.0	0.3	10.8	71		22	78.66	14.84
4461.0	0.0	8.2	81		35	78.56	14.81
4462.0	0.0	6.8	100		40	78.48	14.81
4463.0	0.0	4.3	100		47	78.42	14.81
4481.0	0.5	11.6	89		31	78.38	14.81
4482.0	9	17.2	68		24	78.27	14.78
4501.0	0.0	1.8	100		50	78.12	14.75
4502.0	0.0	4.7	100		27	78.11	14.75
4503.0	0.3	10.9	100		25	78.05	14.75
4519.0	0.0	5.1	100		42	77.96	14.75
4520.0	0.1	9.2	100		28	77.90	14.75
4521.0	2	13.5	89		19	77.80	14.75
4522.0	8	16.5	84		8	77.65	14.73
4523.0	7	15.9	99		5	77.49	14.71
4524.0	5	15.5	100		8	77.33	14.71
4525.0	4	15.2	100		11	77.17	14.71
4526.0	3	14.4	100		16	77.02	14.71
4527.0	2	14.1	100		16	76.88	14.71
4528.0	2	14.2	100		15	76.74	14.71
4529.0	2	13.9	100		17	76.60	14.71
4530.0	2	13.7	100		20	76.46	14.71
4531.0	2	13.6	100		21	76.32	14.71
4532.0	2	13.4	100		21	76.19	14.71
4533.0	0.8	12.3	100		26	76.06	14.71
4534.0	0.7	11.9	100		25	75.93	14.71
4535.0	0.6	11.8	100		22	75.82	14.71
4536.0	0.4	11.1	100		26	75.70	14.71
4537.0	0.4	11.2	100		28	75.59	14.71
4538.0	0.3	11.0	100		31	75.48	14.71
4539.0	1	13.0	100		19	75.36	14.71
4540.0	3	14.1	100		12	75.23	14.71
4541.0	2	14.0	98		14	75.09	14.71
4542.0	2	13.8	94		12	74.95	14.70
4543.0	2	14.0	75		11	74.81	14.68

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4544.0	2	13.7	85		12	74.67	14.65
4545.0	0.4	11.0	92		18	74.54	14.63
4546.0	0.1	9.4	99		20	74.43	14.62
4547.0	0.1	8.9	100		19	74.34	14.62
4548.0	0.0	7.6	100		19	74.25	14.62
4549.0	0.0	3.8	100		32	74.19	14.62
4560.0	0.0	0.0	100		50	74.14	14.62
4570.0	0.0	7.5	96		44	74.14	14.62
4585.0	3	12.7	56		23	74.05	14.62
4586.0	0.2	9.6	72		0	73.93	14.58
4587.0	0.0	8.1	100		0	73.84	14.56
4588.0	0.0	5.3	100		20	73.76	14.56
4589.0	0.0	0.0	100		46	73.72	14.56
4591.0	0.0	0.0	100		5	73.72	14.56
4593.0	70	24.3	49		0	73.72	14.56
4594.0	10000	68.7	16		0	73.39	14.35
4595.0	4000	41.0	22		0	72.75	13.82
4596.0	0.0	6.8	100		21	72.52	13.66
4597.0	0.2	10.2	100		19	72.44	13.66

Schlumberger

ISS =	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	0	2	0	1	0	0	1	0	0	2	0	0	0	0	0	0	1	0	0	0	0

INPUT PARAMETERS FROM 5130. TO 4600.

WMUD	XLIT	BITSZ	BHT	BHTDEP	SUFT	RMF	RMFT	ROMFS	PHIMFS	DASIL
9.2	0.50	7.88	187.	12400.	60.	2.31	58.	1.005	0.994	0.600

SPCK	DSPCK	RODC	DELRGM	START	STOPLG	ZSPNL	BGN	ZSPDL	REC	RESH	CSS
0.	0.	2.84	0.20	12360.	3020.	0.020	1.00	0.000	6.00	1.00	0.2

WHY	PHILEV	BR	SLIM	AK	PK	SK	STOPIN	PHIMAX	PHINCL	PHIDCL
.200	0.000	.10	0.30	62500.	6.0	2.0	4600.	0.110	0.320	-0.010

PHINSO	RTPM	PUN	DAX	DALIM	DAGA	DASH	DTSD	DTSH	CP	PSSH
0.120	169.	.015	80.	46.	20.	108.	150.	150.	0.90	.200

EDIAM	PNLIM	PDLIM	RLIM	GRLIM	VARMC	CONST	ROP	VARLIM	CSF
0.00	1.00	1.00	1000.0	1000.0	0.07	0.333	0.31	0.20	0.10

SP STATISTICS OVER ENTIRE INTERVAL

RESISTIVITY STATISTICS OVER ENTIRE INTERVAL

SONIC STATISTICS OVER ENTIRE INTERVAL

GAMMARAY NOT USED IN CORRECTION OF DOUBTFUL POROSITY DATA
ANALYSIS BY QUASI MODEL
PERMEABILITY BY TIMUR EQUATION
SP COEFF. FROM STATISTICS
GR NOT USED IN SHALINESS DETERMINATION
SONIC COEFF. FROM STATISTICS
WASAMP ROUTINE USED

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4608.0	0.0	0.0	100		49	72.34	13.66
4609.0	0.0	0.0	100		42	72.34	13.66
4610.0	0.0	0.0	100		48	72.34	13.66
4620.0	0.0	0.0	100		44	72.34	13.66
4621.0	0.0	0.0	100		43	72.34	13.66
4622.0	0.0	0.0	100		44	72.34	13.66
4623.0	0.0	0.0	100		47	72.34	13.66
4634.0	0.0	0.0	100		49	72.34	13.66
4635.0	0.0	0.0	100		49	72.34	13.66
4636.0	0.0	0.0	100		50	72.34	13.66
4637.0	0.0	0.0	100		49	72.34	13.66
4638.0	0.0	0.0	100		41	72.34	13.66
4639.0	0.0	0.0	100		43	72.34	13.66
4643.0	0.0	0.0	100		50	72.34	13.66
4644.0	0.0	0.0	100		44	72.34	13.66
4645.0	0.0	1.2	100		40	72.34	13.66
4646.0	0.0	0.0	100		47	72.33	13.66
4648.0	0.0	0.0	100		50	72.33	13.66
4649.0	0.0	0.2	100		45	72.33	13.66
4650.0	0.0	0.5	100		42	72.32	13.66
4651.0	0.0	0.0	100		49	72.32	13.66
4694.0	1	8.7	42		28	72.30	13.66
4695.0	10	10.4	17	0.1	28	72.21	13.59
4696.0	9	10.6	21		28	72.10	13.51
4697.0	0.0	4.3	71		27	72.01	13.43
4698.0	0.0	0.0	100		36	71.98	13.43
4699.0	0.0	0.0	100		39	71.98	13.43
4701.0	0.0	0.1	100		45	71.98	13.43
4702.0	0.0	2.7	100		26	71.98	13.43
4703.0	0.0	0.1	100		38	71.97	13.43
4714.0	0.0	0.0	100		44	71.97	13.43
4715.0	0.0	0.0	100		42	71.97	13.43
4716.0	0.0	0.0	100		42	71.97	13.43
4717.0	0.0	0.0	100		46	71.97	13.43
4733.0	0.0	0.0	100		47	71.96	13.43
4734.0	0.0	0.0	100		42	71.96	13.43
4735.0	0.0	0.0	100		50	71.96	13.43
4761.0	0.0	2.7	100		33	71.96	13.43
4762.0	0.0	0.0	100		43	71.95	13.43

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4773.0	0.0	0.0	100		48	71.95	13.43
4774.0	0.0	0.0	100		42	71.95	13.43
4775.0	0.0	0.0	100		40	71.95	13.43
4776.0	0.0	0.0	100		45	71.95	13.43
4785.0	0.0	2.3	100		34	71.95	13.43
4786.0	0.0	4.2	99		24	71.91	13.43
4787.0	0.0	5.1	68		26	71.87	13.42
4788.0	0.0	0.0	100		40	71.82	13.41
4789.0	0.0	0.0	100		49	71.82	13.41
4791.0	0.0	0.0	100		48	71.82	13.41
4792.0	0.0	0.0	100		50	71.82	13.41
4801.0	0.0	0.0	100		42	71.82	13.41
4802.0	0.0	0.0	100		49	71.82	13.41
4823.0	0.0	0.0	100		50	71.82	13.41
4834.0	0.0	0.0	100		44	71.82	13.41
4835.0	0.0	0.0	100		42	71.82	13.41
4836.0	0.0	0.0	100		45	71.82	13.41
4846.0	0.0	0.0	100		40	71.82	13.41
4847.0	0.0	0.0	100		44	71.82	13.41
4848.0	0.0	0.0	100		44	71.82	13.41
4849.0	0.0	0.0	100		43	71.82	13.41
4858.0	0.0	0.1	100		44	71.82	13.41
4859.0	0.0	2.6	100		32	71.82	13.41
4860.0	0.0	0.2	100		40	71.80	13.41
4861.0	0.0	0.2	100		43	71.80	13.41
4862.0	0.0	0.2	100		48	71.80	13.41
4877.0	0.0	0.0	100		50	71.80	13.41
4878.0	0.0	0.0	100		46	71.80	13.41
4879.0	0.0	0.0	100		44	71.79	13.41
4880.0	0.0	0.0	100		43	71.79	13.41
4881.0	0.0	0.1	100		43	71.79	13.41
4882.0	0.0	0.1	100		45	71.79	13.41
4887.0	0.0	0.0	100		46	71.79	13.41
4888.0	0.0	0.5	100		43	71.79	13.41
4889.0	0.0	2.3	100		35	71.78	13.41
4890.0	0.0	3.0	100		32	71.76	13.41
4891.0	0.0	0.6	100		42	71.73	13.41
4892.0	0.0	0.1	100		44	71.73	13.41

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
4893.0	0.0	0.0	100		46	71.73	13.41
4894.0	0.0	0.0	100		44	71.73	13.41
4895.0	0.0	0.0	100		41	71.73	13.41
4896.0	0.0	0.0	100		45	71.73	13.41
4920.0	0.0	0.0	100		45	71.73	13.41
4921.0	0.0	0.0	100		45	71.73	13.41
4949.0	0.0	0.1	100		48	71.72	13.41
4950.0	0.0	0.1	100		43	71.72	13.41
4951.0	0.0	0.2	100		49	71.72	13.41
4954.0	0.0	1.7	100		49	71.70	13.41
4955.0	0.0	1.9	100		47	71.68	13.41
4956.0	0.0	2.3	100		45	71.66	13.41
4957.0	0.0	2.4	100		43	71.64	13.41
4958.0	0.0	2.3	100		43	71.61	13.41
4959.0	0.0	2.4	100		44	71.59	13.41
4960.0	0.0	2.4	100		45	71.57	13.41
4961.0	0.0	2.0	100		46	71.54	13.41
4962.0	0.0	1.2	100		46	71.53	13.41
4963.0	0.0	0.9	100		45	71.51	13.41
4964.0	0.0	0.5	100		43	71.51	13.41
4965.0	0.0	0.2	100		41	71.50	13.41
4966.0	0.0	0.1	100		42	71.50	13.41
4975.0	0.0	0.1	100		49	71.50	13.41
4976.0	0.0	0.1	100		44	71.49	13.41
4977.0	0.0	0.1	100		44	71.49	13.41
4978.0	0.0	0.0	100		43	71.49	13.41
4985.0	0.0	0.0	100		45	71.49	13.41
4988.0	0.0	0.0	100		43	71.49	13.41
4989.0	0.0	0.0	100		50	71.49	13.41
4994.0	0.0	0.0	100		48	71.49	13.41
4995.0	0.0	0.2	100		47	71.49	13.41
4996.0	0.0	1.6	100		38	71.49	13.41
4997.0	0.0	2.7	100		34	71.47	13.41
4998.0	0.0	0.7	100		39	71.44	13.41
4999.0	0.0	0.0	100		44	71.44	13.41
5000.0	0.0	0.0	100		49	71.44	13.41
5010.0	0.0	0.0	100		50	71.44	13.41
5011.0	0.0	3.4	100		23	71.42	13.41
5012.0	0.0	3.7	98		28	71.39	13.41
5013.0	0.0	0.0	100		49	71.36	13.41

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5018.0	0.0	0.2	100		47	71.35	13.41
5019.0	0.0	4.2	80		30	71.34	13.41
5020.0	0.0	3.6	100		30	71.29	13.40
5021.0	0.0	0.6	100		42	71.26	13.40
5022.0	0.0	0.0	100		48	71.26	13.40
5042.0	0.0	1.8	100		32	71.26	13.40
5043.0	0.0	0.1	100		31	71.24	13.40
5044.0	0.0	0.0	100		41	71.24	13.40
5047.0	0.0	0.4	100		43	71.24	13.40
5048.0	0.0	0.3	100		44	71.23	13.40
5049.0	0.0	0.0	100		46	71.23	13.40
5050.0	0.0	0.0	100		46	71.23	13.40
5051.0	0.0	0.3	100		43	71.22	13.40
5052.0	0.0	0.1	100		44	71.22	13.40
5053.0	0.0	0.1	100		45	71.22	13.40
5054.0	0.0	0.0	100		45	71.22	13.40
5055.0	0.0	0.1	100		42	71.22	13.40
5056.0	0.0	1.6	100		37	71.21	13.40
5057.0	0.0	0.0	100		46	71.20	13.40
5058.0	0.0	0.3	100		49	71.20	13.40
5059.0	0.0	0.3	100		49	71.20	13.40
5067.0	0.0	1.3	100		38	71.19	13.40
5068.0	0.0	0.1	100		31	71.18	13.40
5069.0	0.0	0.0	100		31	71.18	13.40
5070.0	0.0	0.0	100		37	71.18	13.40
5071.0	0.0	0.1	100		49	71.18	13.40
5078.0	0.0	0.0	100		42	71.18	13.40
5079.0	0.0	2.3	100		36	71.17	13.40
5080.0	0.0	0.7	100		39	71.15	13.40
5081.0	0.0	0.2	100		43	71.14	13.40
5082.0	0.0	0.0	100		46	71.14	13.40
5083.0	0.0	0.0	100		47	71.14	13.40
5084.0	0.0	0.0	100		45	71.14	13.40
5085.0	0.0	0.1	100		45	71.14	13.40
5086.0	0.0	0.0	100		48	71.14	13.40
5087.0	0.0	0.0	100		45	71.14	13.40
5091.0	0.0	0.0	100		50	71.14	13.40
5111.0	0.0	0.0	100		49	71.14	13.40
5112.0	0.0	1.7	100		32	71.13	13.40
5113.0	0.0	0.0	100		40	71.12	13.40

Schlumberger

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ISS =  2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
       0 2 0 1 0 1 0 0  0  0  0  0  0  0  0  0  1  0  0  0  0

INPUT PARAMETERS FROM  7300. TO  5130.

 WMUD XLIT BITSZ  BHT BHTDEP SUFT   RMF RMFT ROMFS PHIMFS DASIL
  9.2 0.50  7.88 187. 12400.  60.  2.31  58. 1.005  0.994 0.600

  SPCK  DSPCK RODC DELRGM START STOPLG ZSPNL  BGN ZSPDL   REC  RESH CSS
    0.      0. 2.84  0.20 12360. 3020. 0.020 1.00 0.000 20.00  1.00 0.2

  WHY PHILEV  BR SLIM    AK   PK  SK STOPIN PHIMAX PHINCL PHIDCL
 .200  0.000 .10 0.30 62500. 6.0 2.0  5130.  0.090  0.280 -0.030

 PHINSO  RTPM  PUN  DAX DALIM DAGA DASH DTSD DTSH  CP  PSSH
  0.100  169. .015  80.   46.  20. 108. 150. 150. 0.90 .200

 EDIAM  PNLIM  PDLIM   RLIM  GRLIM VARMC  CONST  ROP VARLIM   CSF
  0.00   1.00   1.00 1000.0 1000.0  0.07  0.333  0.31  0.20  0.10

SP STATISTICS OVER ENTIRE INTERVAL


RESISTIVITY STATISTICS OVER ENTIRE INTERVAL


GAMMA - RAY STATISTICS OVER ENTIRE INTERVAL


SONIC STATISTICS OVER ENTIRE INTERVAL

ANALYSIS BY QUASIP MODEL
PERMEABILITY BY TIMUR EQUATION
SP COEFF. FROM STATISTICS
GR COEFF. FROM STATISTICS
SONIC COEFF. FROM STATISTICS
WASAMP ROUTINE USED
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Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5135.0	0.0	0.5	100		34	71.11	13.40
5136.0	0.0	0.3	100		37	71.11	13.40
5137.0	0.0	0.0	100		49	71.10	13.40
5165.0	0.0	0.0	100		49	71.10	13.40
5171.0	0.0	0.0	100		49	71.10	13.40
5172.0	0.0	0.0	100		49	71.10	13.40
5173.0	0.0	0.0	100		47	71.10	13.40
5174.0	0.0	0.0	100		46	71.10	13.40
5175.0	0.0	0.0	100		44	71.10	13.40
5176.0	0.0	0.0	100		42	71.10	13.40
5177.0	0.0	0.0	100		47	71.10	13.40
5200.0	0.0	0.0	100		45	71.10	13.40
5201.0	0.0	0.0	100		44	71.10	13.40
5202.0	0.0	0.0	100		50	71.10	13.40
5217.0	0.0	0.0	100		48	71.10	13.40
5218.0	0.0	0.0	100		44	71.10	13.40
5219.0	0.0	0.0	100		44	71.10	13.40
5220.0	0.0	0.0	100		46	71.10	13.40
5226.0	0.0	0.0	100		42	71.10	13.40
5227.0	0.0	0.4	100		35	71.10	13.40
5228.0	0.0	0.0	100		37	71.09	13.40
5229.0	0.0	0.0	100		43	71.09	13.40
5239.0	0.0	0.7	100		48	71.08	13.40
5240.0	0.0	0.4	100		48	71.07	13.40
5258.0	0.0	2.2	100		31	71.02	13.40
5259.0	0.0	5.0	100		17	70.99	13.40
5260.0	0.0	5.4	100		16	70.93	13.40
5261.0	0.0	5.9	100		15	70.88	13.40
5262.0	0.0	5.3	100		18	70.82	13.40
5263.0	0.0	4.2	100		22	70.77	13.40
5264.0	0.0	4.5	100		21	70.72	13.40
5265.0	0.0	3.6	100		23	70.68	13.40
5266.0	0.0	3.5	100		24	70.65	13.40
5267.0	0.0	3.5	100		23	70.61	13.40
5268.0	0.0	5.0	100		18	70.57	13.40
5269.0	0.0	5.9	100		16	70.52	13.40
5270.0	0.0	6.2	97		17	70.46	13.40
5271.0	0.0	6.0	97		18	70.40	13.40
5272.0	0.0	3.2	100		25	70.34	13.40
5273.0	0.0	0.8	100		45	70.31	13.40
5283.0	0.0	0.0	100		50	70.30	13.40

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5284.0	0.0	0.0	100		48	70.30	13.40
5306.0	0.0	0.0	100		50	70.30	13.40
5307.0	0.0	0.0	100		49	70.30	13.40
5314.0	0.0	0.0	100		50	70.30	13.40
5315.0	0.0	0.0	100		44	70.30	13.40
5316.0	0.0	0.0	100		44	70.30	13.40
5330.0	0.0	0.0	100		48	70.30	13.40
5397.0	0.0	0.7	100		49	70.28	13.40
5401.0	0.0	0.3	100		48	70.26	13.40
5411.0	0.0	0.0	100		48	70.25	13.40
5439.0	0.0	1.0	100		49	70.22	13.40
5454.0	0.0	1.8	100		43	70.13	13.40
5455.0	0.0	0.7	100		46	70.12	13.40
5456.0	0.0	2.8	100		40	70.10	13.40
5472.0	0.0	2.6	100		38	70.02	13.40
5484.0	0.0	0.3	100		37	69.97	13.40
5485.0	0.0	0.0	100		38	69.97	13.40
5501.0	0.0	2.3	100		46	69.94	13.40
5514.0	0.0	0.0	100		50	69.92	13.40
5545.0	0.0	0.0	100		45	69.92	13.40
5546.0	0.0	0.1	100		43	69.92	13.40
5547.0	0.0	0.3	100		42	69.91	13.40
5548.0	0.0	0.1	100		46	69.91	13.40
5564.0	0.0	0.1	100		46	69.87	13.40
5565.0	0.0	0.4	100		43	69.87	13.40
5566.0	0.0	0.8	100		41	69.87	13.40
5567.0	0.0	1.1	100		41	69.86	13.40
5568.0	0.0	0.3	100		48	69.85	13.40
5583.0	0.0	0.6	100		49	69.84	13.40
5584.0	0.0	0.5	100		43	69.83	13.40
5609.0	0.0	0.0	100		49	69.82	13.40
5610.0	0.0	0.2	100		46	69.82	13.40

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5611.0	0.0	0.5	100		47	69.82	13.40
5615.0	0.0	1.0	100		49	69.80	13.40
5618.0	0.0	0.2	100		45	69.78	13.40
5619.0	0.0	0.2	100		42	69.78	13.40
5620.0	0.0	0.1	100		43	69.77	13.40
5621.0	0.0	0.3	100		43	69.77	13.40
5622.0	0.0	0.1	100		49	69.77	13.40
5624.0	0.0	0.0	100		46	69.77	13.40
5625.0	0.0	0.2	100		37	69.77	13.40
5626.0	0.0	0.1	100		38	69.77	13.40
5627.0	0.0	0.1	100		39	69.77	13.40
5628.0	0.0	0.1	100		47	69.77	13.40
5630.0	0.0	0.6	100		49	69.76	13.40
5631.0	0.0	0.5	100		45	69.75	13.40
5632.0	0.0	0.4	100		48	69.75	13.40
5635.0	0.0	0.9	100		45	69.74	13.40
5636.0	0.0	0.2	100		42	69.73	13.40
5637.0	0.0	0.1	100		41	69.73	13.40
5638.0	0.0	0.1	100		41	69.73	13.40
5639.0	0.0	0.0	100		44	69.73	13.40
5640.0	0.0	0.1	100		46	69.73	13.40
5641.0	0.0	0.1	100		49	69.73	13.40
5643.0	0.0	0.2	100		50	69.72	13.40
5646.0	0.0	0.0	100		49	69.72	13.40
5647.0	0.0	0.0	100		48	69.72	13.40
5650.0	0.0	0.0	100		50	69.72	13.40
5652.0	0.0	0.0	100		49	69.72	13.40
5656.0	0.0	0.0	100		49	69.72	13.40
5657.0	0.0	0.0	100		47	69.72	13.40
5658.0	0.0	0.0	100		49	69.72	13.40
5667.0	0.0	0.0	100		49	69.72	13.40
5668.0	0.0	0.0	100		45	69.72	13.40
5669.0	0.0	0.0	100		44	69.72	13.40
5670.0	0.0	0.0	100		44	69.72	13.40
5671.0	0.0	0.0	100		45	69.72	13.40
5672.0	0.0	0.0	100		49	69.72	13.40
5697.0	0.0	0.5	100		49	69.70	13.40

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5698.0	0.0	0.4	100		47	69.70	13.40
5699.0	0.0	0.4	100		45	69.69	13.40
5700.0	0.0	0.3	100		48	69.69	13.40
5720.0	0.0	0.0	100		39	69.67	13.40
5721.0	0.0	0.1	100		35	69.67	13.40
5722.0	0.0	0.9	100		34	69.67	13.40
5723.0	0.0	0.1	100		43	69.66	13.40
5724.0	0.0	0.0	100		49	69.66	13.40
5762.0	0.0	0.0	100		44	69.66	13.40
5763.0	0.0	0.0	100		46	69.66	13.40
5784.0	0.0	0.0	100		47	69.66	13.40
5799.0	0.0	0.3	100		48	69.65	13.40
5800.0	0.0	0.0	100		48	69.65	13.40
5801.0	0.0	0.0	100		48	69.65	13.40
5802.0	0.0	0.1	100		46	69.65	13.40
5803.0	0.0	0.2	100		45	69.64	13.40
5804.0	0.0	0.0	100		48	69.64	13.40
5805.0	0.0	0.1	100		47	69.64	13.40
5806.0	0.0	0.0	100		45	69.64	13.40
5807.0	0.0	0.0	100		47	69.64	13.40
5810.0	0.0	0.1	100		45	69.64	13.40
5811.0	0.0	0.1	100		43	69.64	13.40
5812.0	0.0	0.0	100		48	69.64	13.40
5828.0	0.0	0.1	100		46	69.61	13.40
5829.0	0.0	0.1	100		41	69.61	13.40
5830.0	0.0	0.3	100		37	69.61	13.40
5831.0	0.0	0.2	100		38	69.61	13.40
5832.0	0.0	0.0	100		46	69.61	13.40
5841.0	0.0	0.0	100		48	69.60	13.40
5842.0	0.0	0.0	100		45	69.60	13.40
5843.0	0.0	0.0	100		47	69.60	13.40
5847.0	0.0	0.0	100		45	69.60	13.40
5848.0	0.0	0.0	100		42	69.60	13.40
5849.0	0.0	0.0	100		44	69.60	13.40
5850.0	0.0	0.2	100		43	69.60	13.40
5851.0	0.0	0.2	100		41	69.60	13.40
5852.0	0.0	0.2	100		38	69.59	13.40
5853.0	0.0	0.0	100		38	69.59	13.40
5854.0	0.0	0.0	100		39	69.59	13.40
5855.0	0.0	0.3	100		37	69.59	13.40

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5856.0	0.0	0.1	100		36	69.59	13.40
5857.0	0.0	0.0	100		37	69.59	13.40
5858.0	0.0	0.0	100		42	69.59	13.40
5859.0	0.0	0.0	100		49	69.59	13.40
5861.0	0.0	0.0	100		49	69.59	13.40
5862.0	0.0	0.4	100		46	69.59	13.40
5863.0	0.0	0.9	100		40	69.58	13.40
5864.0	0.0	1.9	100		32	69.57	13.40
5865.0	0.0	1.5	100		30	69.55	13.40
5866.0	0.0	3.2	100		24	69.53	13.40
5867.0	0.0	3.6	100		23	69.50	13.40
5868.0	0.0	2.8	100		25	69.46	13.40
5869.0	0.0	2.3	100		28	69.44	13.40
5870.0	0.0	3.0	100		25	69.41	13.40
5871.0	0.0	3.2	100		24	69.38	13.40
5872.0	0.0	4.2	100		22	69.35	13.40
5873.0	0.0	4.4	100		21	69.31	13.40
5874.0	0.0	4.2	100		22	69.26	13.40
5875.0	0.0	2.8	100		25	69.22	13.40
5876.0	0.0	1.8	100		29	69.20	13.40
5877.0	0.0	1.1	100		31	69.18	13.40
5878.0	0.0	3.4	100		24	69.16	13.40
5879.0	0.0	3.0	100		24	69.13	13.40
5880.0	0.0	1.7	100		31	69.10	13.40
5881.0	0.0	2.9	100		30	69.08	13.40
5882.0	0.0	2.8	100		31	69.05	13.40
5883.0	0.0	2.7	100		33	69.03	13.40
5884.0	0.0	2.7	100		33	69.00	13.40
5885.0	0.0	2.6	100		32	68.97	13.40
5886.0	0.0	2.3	100		33	68.95	13.40
5887.0	0.0	0.6	100		41	68.93	13.40
5888.0	0.0	0.1	100		49	68.92	13.40
5889.0	0.0	2.3	100		40	68.92	13.40
5890.0	0.0	2.9	100		27	68.89	13.40
5891.0	0.0	2.4	100		29	68.87	13.40
5892.0	0.0	2.0	100		32	68.84	13.40
5893.0	0.0	0.9	100		37	68.83	13.40
5894.0	0.0	0.2	100		44	68.82	13.40
5895.0	0.0	1.9	100		37	68.81	13.40
5896.0	0.0	2.9	100		30	68.79	13.40
5897.0	0.0	3.1	100		26	68.76	13.40
5898.0	0.0	3.5	100		24	68.73	13.40
5899.0	0.0	3.7	100		23	68.70	13.40
5900.0	0.0	4.2	100		22	68.66	13.40
5901.0	0.0	2.4	100		26	68.62	13.40
5902.0	0.0	1.0	100		32	68.60	13.40
5903.0	0.0	4.4	100		21	68.58	13.40

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5904.0	0.4	8.0	57		14	68.53	13.39
5905.0	0.0	0.0	100		37	68.48	13.37
5906.0	0.0	0.0	100		47	68.48	13.37
5923.0	0.0	0.0	100		47	68.48	13.37
5924.0	0.0	0.0	100		45	68.48	13.37
5925.0	0.0	0.0	100		47	68.48	13.37
5926.0	0.0	0.0	100		49	68.48	13.37
5927.0	0.0	0.0	100		44	68.48	13.37
5928.0	0.0	0.0	100		41	68.48	13.37
5929.0	0.0	0.2	100		39	68.48	13.37
5930.0	0.0	0.6	100		37	68.47	13.37
5931.0	0.0	0.8	100		34	68.47	13.37
5932.0	0.0	1.6	100		30	68.46	13.37
5933.0	0.0	3.8	100		23	68.44	13.37
5934.0	0.0	3.9	100		21	68.40	13.37
5935.0	0.0	2.8	100		24	68.36	13.37
5936.0	0.0	2.8	100		24	68.33	13.37
5937.0	0.0	3.5	100		21	68.30	13.37
5938.0	0.0	2.7	100		26	68.27	13.37
5939.0	0.0	0.6	100		34	68.25	13.37
5940.0	0.0	0.0	100		42	68.24	13.37
5941.0	0.0	0.0	100		44	68.24	13.37
5942.0	0.0	0.0	100		42	68.24	13.37
5943.0	0.0	0.0	100		41	68.24	13.37
5944.0	0.0	0.0	100		47	68.24	13.37
5946.0	0.0	0.1	100		49	68.24	13.37
5947.0	0.0	0.0	100		47	68.24	13.37
5948.0	0.0	0.0	100		45	68.24	13.37
5949.0	0.0	0.0	100		42	68.24	13.37
5950.0	0.0	0.0	100		41	68.24	13.37
5951.0	0.0	0.0	100		45	68.24	13.37
5959.0	0.0	0.0	100		48	68.24	13.37
5960.0	0.0	0.0	100		46	68.24	13.37
5961.0	0.0	0.1	100		48	68.24	13.37
5963.0	0.0	0.0	100		48	68.24	13.37
5964.0	0.0	0.0	100		42	68.24	13.37
5965.0	0.0	0.0	100		38	68.24	13.37
5966.0	0.0	0.0	100		40	68.24	13.37
5967.0	0.0	0.0	100		50	68.24	13.37
5971.0	0.0	0.0	100		49	68.24	13.37
5987.0	0.0	0.0	100		49	68.24	13.37
5988.0	0.0	0.0	100		46	68.24	13.37

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
5989.0	0.0	0.1	100		48	68.24	13.37
5990.0	0.0	0.0	100		47	68.23	13.37
5998.0	0.0	0.1	100		50	68.23	13.37
5999.0	0.0	0.0	100		49	68.23	13.37
6016.0	0.0	0.0	100		49	68.23	13.37
6036.0	0.0	0.0	100		49	68.22	13.37
6037.0	0.0	0.0	100		49	68.22	13.37
6038.0	0.0	0.0	100		48	68.22	13.37
6039.0	0.0	0.0	100		43	68.22	13.37
6040.0	0.0	0.2	100		39	68.22	13.37
6041.0	0.0	0.2	100		39	68.22	13.37
6042.0	0.0	0.2	100		40	68.22	13.37
6043.0	0.0	0.2	100		43	68.22	13.37
6044.0	0.0	0.2	100		40	68.21	13.37
6045.0	0.0	0.0	100		39	68.21	13.37
6046.0	0.0	0.0	100		41	68.21	13.37
6047.0	0.0	0.0	100		44	68.21	13.37
6048.0	0.0	0.0	100		45	68.21	13.37
6049.0	0.0	0.0	100		47	68.21	13.37
6050.0	0.0	0.0	100		50	68.21	13.37
6051.0	0.0	0.0	100		46	68.21	13.37
6052.0	0.0	0.0	100		45	68.21	13.37
6053.0	0.0	0.0	100		48	68.21	13.37
6054.0	0.0	0.0	100		48	68.21	13.37
6076.0	0.0	0.0	100		46	68.21	13.37
6077.0	0.0	0.0	100		46	68.21	13.37
6090.0	0.0	0.1	100		50	68.20	13.37
6091.0	0.0	0.1	100		50	68.20	13.37
6092.0	0.0	0.0	100		50	68.20	13.37
6093.0	0.0	0.0	100		48	68.20	13.37
6094.0	0.0	0.1	100		46	68.20	13.37
6095.0	0.0	0.0	100		49	68.20	13.37
6107.0	0.0	0.3	100		47	68.18	13.37
6108.0	0.0	0.4	100		39	68.18	13.37
6109.0	0.0	0.4	100		38	68.17	13.37
6110.0	0.0	0.6	100		37	68.17	13.37
6111.0	0.0	0.6	100		38	68.16	13.37
6112.0	0.0	0.8	100		39	68.16	13.37
6113.0	0.0	0.8	100		37	68.15	13.37
6114.0	0.0	1.8	100		32	68.14	13.37
6115.0	0.0	2.7	100		29	68.12	13.37
6116.0	0.0	2.2	100		33	68.09	13.37

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6117.0	0.0	2.3	100		32	68.07	13.37
6118.0	0.0	0.8	100		41	68.05	13.37
6119.0	0.0	0.6	100		44	68.04	13.37
6120.0	0.0	2.4	100		35	68.03	13.37
6121.0	0.0	2.4	100		31	68.01	13.37
6122.0	0.0	2.0	100		31	67.98	13.37
6123.0	0.0	0.1	100		42	67.97	13.37
6124.0	0.0	0.0	100		48	67.97	13.37
6125.0	0.0	0.0	100		49	67.97	13.37
6126.0	0.0	0.1	100		47	67.97	13.37
6127.0	0.0	0.4	100		41	67.97	13.37
6128.0	0.0	0.3	100		40	67.96	13.37
6129.0	0.0	0.0	100		41	67.96	13.37
6130.0	0.0	0.0	100		42	67.96	13.37
6131.0	0.0	0.0	100		42	67.96	13.37
6132.0	0.0	0.0	100		42	67.96	13.37
6133.0	0.0	0.0	100		44	67.96	13.37
6134.0	0.0	0.0	100		45	67.96	13.37
6135.0	0.0	0.0	100		48	67.96	13.37
6156.0	0.0	0.0	100		49	67.96	13.37
6157.0	0.0	0.1	100		46	67.96	13.37
6158.0	0.0	0.1	100		43	67.96	13.37
6159.0	0.0	0.0	100		43	67.96	13.37
6160.0	0.0	0.0	100		45	67.96	13.37
6168.0	0.0	0.1	100		50	67.95	13.37
6169.0	0.0	0.0	100		45	67.95	13.37
6170.0	0.0	0.0	100		48	67.95	13.37
6183.0	0.0	0.0	100		49	67.95	13.37
6184.0	0.0	0.0	100		45	67.95	13.37
6185.0	0.0	0.0	100		48	67.95	13.37
6208.0	0.0	0.1	100		47	67.95	13.37
6209.0	0.0	0.1	100		45	67.95	13.37
6210.0	0.0	0.0	100		46	67.95	13.37
6211.0	0.0	0.1	100		46	67.95	13.37
6224.0	0.0	0.0	100		42	67.94	13.37
6225.0	0.0	0.0	100		39	67.94	13.37
6226.0	0.0	0.0	100		41	67.94	13.37
6227.0	0.0	0.0	100		44	67.94	13.37
6246.0	0.0	0.0	100		50	67.94	13.37
6247.0	0.0	0.1	100		44	67.94	13.37
6248.0	0.0	0.2	100		43	67.94	13.37
6249.0	0.0	0.1	100		47	67.94	13.37

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6251.0	0.0	0.0	100		48	67.94	13.37
6252.0	0.0	0.0	100		47	67.94	13.37
6253.0	0.0	0.1	100		47	67.94	13.37
6256.0	0.0	0.0	100		46	67.94	13.37
6257.0	0.0	0.2	100		41	67.93	13.37
6258.0	0.0	0.5	100		38	67.93	13.37
6259.0	0.0	1.1	100		34	67.93	13.37
6260.0	0.0	4.0	100		22	67.91	13.37
6261.0	0.0	4.4	100		20	67.87	13.37
6262.0	0.0	2.9	100		25	67.83	13.37
6263.0	0.0	2.9	100		26	67.80	13.37
6264.0	0.0	3.4	100		26	67.77	13.37
6265.0	0.0	2.8	100		27	67.74	13.37
6266.0	0.0	3.2	100		24	67.71	13.37
6267.0	0.0	3.9	100		23	67.68	13.37
6268.0	0.0	5.4	100		19	67.63	13.37
6269.0	0.0	5.0	100		20	67.58	13.37
6270.0	0.0	3.8	100		23	67.53	13.37
6271.0	0.0	2.4	100		29	67.50	13.37
6272.0	0.0	0.2	100		44	67.48	13.37
6274.0	0.0	0.4	100		49	67.48	13.37
6275.0	0.0	0.1	100		48	67.48	13.37
6276.0	0.0	0.0	100		48	67.48	13.37
6280.0	0.0	0.1	100		49	67.48	13.37
6296.0	0.0	0.0	100		50	67.47	13.37
6304.0	0.0	0.0	100		44	67.47	13.37
6305.0	0.0	0.4	100		36	67.47	13.37
6306.0	0.0	0.0	100		40	67.46	13.37
6307.0	0.0	0.0	100		49	67.46	13.37
6319.0	0.0	0.0	100		45	67.43	13.37
6320.0	0.0	0.0	100		44	67.43	13.37
6321.0	0.0	0.0	100		45	67.43	13.37
6322.0	0.0	0.0	100		49	67.43	13.37
6338.0	0.0	0.0	100		45	67.43	13.37
6339.0	0.0	0.0	100		41	67.43	13.37
6352.0	0.0	0.0	100		46	67.42	13.37
6356.0	0.0	0.0	100		46	67.42	13.37
6369.0	0.0	0.0	100		50	67.42	13.37

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6370.0	0.0	0.0	100		48	67.42	13.37
6384.0	0.0	0.0	100		46	67.42	13.37
6385.0	0.0	0.1	100		41	67.42	13.37
6386.0	0.0	0.0	100		42	67.42	13.37
6387.0	0.0	0.0	100		46	67.41	13.37
6412.0	0.0	0.0	100		50	67.41	13.37
6424.0	0.0	0.0	100		46	67.41	13.37
6425.0	0.0	0.0	100		42	67.41	13.37
6426.0	0.0	0.0	100		46	67.41	13.37
6427.0	0.0	0.0	100		49	67.41	13.37
6432.0	0.0	2.4	100		49	67.39	13.37
6483.0	0.0	0.0	100		48	67.33	13.37
6484.0	0.0	0.0	100		43	67.33	13.37
6507.0	0.0	0.1	100		47	67.32	13.37
6508.0	0.0	0.0	100		47	67.32	13.37
6509.0	0.0	0.1	100		44	67.32	13.37
6510.0	0.0	0.2	100		41	67.32	13.37
6511.0	0.0	0.3	100		40	67.32	13.37
6512.0	0.0	0.1	100		43	67.31	13.37
6513.0	0.0	0.0	100		47	67.31	13.37
6520.0	0.0	2.3	100		40	67.27	13.37
6521.0	0.0	4.9	100		20	67.24	13.37
6522.0	0.0	5.5	100		18	67.20	13.37
6523.0	0.0	5.3	100		16	67.14	13.37
6524.0	0.0	5.1	100		17	67.09	13.37
6525.0	0.0	4.8	100		22	67.04	13.37
6526.0	0.0	5.7	100		24	66.98	13.37
6527.0	0.0	5.7	100		18	66.93	13.37
6528.0	0.0	6.7	100		13	66.86	13.37
6529.0	0.0	6.6	100		13	66.80	13.37
6530.0	0.0	6.4	100		14	66.73	13.37
6531.0	0.0	6.6	99		14	66.67	13.37
6532.0	0.0	7.3	92		14	66.60	13.37
6533.0	0.0	7.6	86		14	66.53	13.37
6534.0	0.0	6.8	95		17	66.45	13.36
6535.0	0.0	5.4	100		22	66.39	13.36
6536.0	0.0	5.3	100		20	66.34	13.36
6537.0	0.0	6.1	100		18	66.29	13.36
6538.0	0.0	6.9	98		19	66.22	13.36
6539.0	0.0	5.5	100		23	66.16	13.36
6540.0	0.0	5.1	100		23	66.11	13.36

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6541.0	0.0	4.6	100		23	66.05	13.36
6542.0	0.0	3.5	100		24	66.01	13.36
6543.0	0.0	2.7	100		29	65.98	13.36
6544.0	0.0	1.5	100		37	65.95	13.36
6545.0	0.0	0.0	100		44	65.95	13.36
6560.0	0.0	0.3	100		48	65.89	13.36
6561.0	0.0	0.2	100		41	65.89	13.36
6562.0	0.0	0.1	100		47	65.89	13.36
6563.0	0.0	0.5	100		48	65.89	13.36
6564.0	0.0	0.4	100		46	65.88	13.36
6565.0	0.0	1.3	100		46	65.88	13.36
6566.0	0.0	0.8	100		46	65.87	13.36
6567.0	0.0	2.6	100		30	65.85	13.36
6568.0	0.0	2.3	100		30	65.83	13.36
6569.0	0.0	1.8	100		30	65.81	13.36
6570.0	0.0	0.1	100		40	65.79	13.36
6571.0	0.0	0.0	100		45	65.79	13.36
6572.0	0.0	0.0	100		49	65.79	13.36
6576.0	0.0	0.8	100		49	65.79	13.36
6612.0	0.0	0.0	100		47	65.75	13.36
6613.0	0.0	0.0	100		44	65.75	13.36
6614.0	0.0	0.1	100		43	65.75	13.36
6615.0	0.0	0.0	100		49	65.75	13.36
6624.0	0.0	0.3	100		49	65.74	13.36
6625.0	0.0	0.5	100		45	65.74	13.36
6626.0	0.0	0.0	100		47	65.73	13.36
6627.0	0.0	0.0	100		43	65.73	13.36
6628.0	0.0	0.0	100		42	65.73	13.36
6629.0	0.0	0.0	100		41	65.73	13.36
6630.0	0.0	0.1	100		42	65.73	13.36
6631.0	0.0	0.1	100		46	65.73	13.36
6634.0	0.0	0.0	100		47	65.73	13.36
6635.0	0.0	0.0	100		43	65.73	13.36
6636.0	0.0	0.0	100		45	65.73	13.36
6644.0	0.0	0.0	100		48	65.72	13.36
6645.0	0.0	0.0	100		49	65.72	13.36
6646.0	0.0	0.0	100		45	65.72	13.36
6649.0	0.0	0.2	100		48	65.72	13.36
6650.0	0.0	0.8	100		39	65.72	13.36
6651.0	0.0	0.1	100		44	65.71	13.36
6652.0	0.0	0.0	100		50	65.71	13.36

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6675.0	0.0	0.0	100		50	65.71	13.36
6676.0	0.0	0.0	100		48	65.71	13.36
6680.0	0.0	1.2	100		50	65.70	13.36
6681.0	0.0	2.4	100		45	65.69	13.36
6682.0	0.0	2.2	100		37	65.66	13.36
6683.0	0.0	2.4	100		30	65.64	13.36
6684.0	0.0	4.4	100		21	65.61	13.36
6685.0	0.0	7.3	97		16	65.56	13.36
6686.0	0.0	7.6	96		17	65.49	13.35
6687.0	0.0	5.7	100		19	65.41	13.35
6688.0	0.0	4.3	100		22	65.36	13.35
6689.0	0.0	7.0	99		14	65.31	13.35
6690.0	0.1	9.0	85		10	65.23	13.35
6691.0	0.1	8.0	83		11	65.15	13.33
6692.0	0.0	7.3	82		13	65.07	13.32
6693.0	0.0	6.3	95		17	65.00	13.31
6694.0	0.0	4.9	100		20	64.94	13.31
6695.0	0.0	3.0	100		28	64.90	13.31
6696.0	0.0	0.4	100		43	64.87	13.31
6697.0	0.0	1.5	100		48	64.87	13.31
6698.0	0.0	6.6	100		33	64.84	13.31
6699.0	0.0	4.8	100		20	64.78	13.31
6700.0	0.0	3.3	100		24	64.74	13.31
6701.0	0.0	3.1	100		26	64.70	13.31
6702.0	0.0	1.3	100		35	64.68	13.31
6703.0	0.0	0.0	100		47	64.67	13.31
6728.0	0.0	0.0	100		49	64.67	13.31
6757.0	0.0	0.8	100		47	64.63	13.31
6758.0	0.0	0.0	100		46	64.62	13.31
6774.0	0.0	0.0	100		47	64.62	13.31
6775.0	0.0	0.1	100		49	64.62	13.31
6776.0	0.0	0.0	100		50	64.62	13.31
6779.0	0.0	0.8	100		50	64.62	13.31
6780.0	0.0	0.1	100		47	64.61	13.31
6783.0	0.0	0.0	100		50	64.61	13.31
6784.0	0.0	0.0	100		49	64.61	13.31
6788.0	0.0	0.0	100		48	64.61	13.31
6789.0	0.0	0.0	100		46	64.61	13.31
6790.0	0.0	0.1	100		45	64.61	13.31
6791.0	0.0	0.1	100		44	64.61	13.31

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6792.0	0.0	0.1	100		45	64.61	13.31
6793.0	0.0	0.0	100		47	64.61	13.31
6798.0	0.0	0.0	100		48	64.60	13.31
6799.0	0.0	0.0	100		49	64.60	13.31
6808.0	0.0	0.0	100		50	64.58	13.31
6809.0	0.0	0.0	100		49	64.58	13.31
6811.0	0.0	1.0	100		50	64.58	13.31
6812.0	0.0	0.6	100		44	64.57	13.31
6813.0	0.0	0.0	100		46	64.57	13.31
6814.0	0.0	0.0	100		50	64.57	13.31
6817.0	0.0	0.0	100		46	64.56	13.31
6818.0	0.0	0.1	100		39	64.56	13.31
6819.0	0.0	0.3	100		44	64.56	13.31
6821.0	0.0	1.5	100		45	64.55	13.31
6822.0	0.0	2.3	100		36	64.53	13.31
6823.0	0.0	2.6	100		26	64.51	13.31
6824.0	0.0	0.3	100		42	64.49	13.31
6836.0	0.0	0.1	100		50	64.48	13.31
6839.0	0.0	0.1	100		50	64.48	13.31
6840.0	0.0	0.2	100		42	64.48	13.31
6841.0	0.0	0.2	100		42	64.47	13.31
6848.0	0.0	0.4	100		47	64.46	13.31
6875.0	0.0	2.0	100		39	64.44	13.31
6876.0	0.0	2.4	100		26	64.42	13.31
6877.0	0.0	0.7	100		32	64.40	13.31
6878.0	0.0	0.0	100		48	64.39	13.31
6895.0	0.0	0.0	100		46	64.37	13.31
6905.0	0.0	0.7	100		40	64.37	13.31
6906.0	0.0	0.5	100		40	64.36	13.31
6907.0	0.0	0.4	100		41	64.36	13.31
6908.0	0.0	0.5	100		42	64.35	13.31
6912.0	0.0	0.2	100		49	64.35	13.31
6913.0	0.0	0.2	100		40	64.34	13.31
6914.0	0.0	0.8	100		38	64.34	13.31
6915.0	0.0	0.0	100		48	64.34	13.31
6930.0	0.0	0.5	100		48	64.33	13.31

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
6938.0	0.0	0.3	100		45	64.31	13.31
6939.0	0.0	0.2	100		37	64.31	13.31
6940.0	0.0	0.1	100		40	64.31	13.31
6941.0	0.0	0.1	100		43	64.31	13.31
6942.0	0.0	0.0	100		48	64.31	13.31
6945.0	0.0	1.1	100		50	64.30	13.31
6946.0	0.0	2.0	100		47	64.28	13.31
6947.0	0.0	6.0	100		42	64.26	13.31
6948.0	0.2	9.5	100		28	64.18	13.31
6949.0	2	14.0	72		38	64.08	13.31
6961.0	0.0	0.0	100		45	63.90	13.27
6966.0	0.0	0.0	100		49	63.89	13.27
6968.0	0.0	0.0	100		49	63.89	13.27
6969.0	0.0	0.0	100		47	63.89	13.27
6970.0	0.0	0.0	100		46	63.89	13.27
6995.0	0.0	0.5	100		48	63.87	13.27
6996.0	0.0	0.6	100		47	63.86	13.27
6997.0	0.0	0.3	100		45	63.86	13.27
6998.0	0.0	0.6	100		38	63.85	13.27
6999.0	0.0	0.1	100		37	63.85	13.27
7000.0	0.0	0.0	100		41	63.85	13.27
7020.0	0.0	0.0	100		47	63.85	13.27
7021.0	0.0	0.4	100		47	63.85	13.27
7022.0	0.0	0.2	100		48	63.85	13.27
7023.0	0.0	0.2	100		49	63.84	13.27
7026.0	0.0	0.3	100		42	63.84	13.27
7027.0	0.0	0.6	100		38	63.84	13.27
7043.0	0.0	1.2	100		49	63.79	13.27
7044.0	0.0	1.8	100		38	63.77	13.27
7045.0	0.0	2.9	100		21	63.74	13.27
7046.0	0.0	3.1	100		18	63.72	13.27
7047.0	0.0	3.5	100		23	63.68	13.26
7048.0	0.0	0.0	100		42	63.66	13.26
7055.0	0.0	0.3	100		40	63.65	13.26
7056.0	0.0	0.0	100		46	63.65	13.26
7064.0	0.0	0.0	100		47	63.64	13.26
7065.0	0.0	0.0	100		44	63.64	13.26

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7066.0	0.0	0.2	100		46	63.64	13.26
7081.0	0.0	0.3	100		42	63.63	13.26
7082.0	0.0	1.1	100		37	63.63	13.26
7083.0	0.0	0.7	100		46	63.62	13.26
7084.0	0.0	1.1	100		46	63.61	13.26
7090.0	0.0	2.2	100		33	63.58	13.26
7091.0	0.0	2.3	100		33	63.56	13.26
7092.0	0.0	1.4	100		37	63.54	13.26
7097.0	0.0	0.5	100		43	63.53	13.26
7098.0	0.0	0.2	100		49	63.52	13.26
7099.0	0.0	0.0	100		48	63.52	13.26
7100.0	0.0	0.2	100		46	63.52	13.26
7106.0	0.0	0.3	100		48	63.51	13.26
7107.0	0.0	0.0	100		44	63.51	13.26
7108.0	0.0	0.0	100		45	63.51	13.26
7109.0	0.0	0.0	100		50	63.51	13.26
7110.0	0.0	0.0	100		49	63.51	13.26
7111.0	0.0	0.0	100		49	63.51	13.26
7119.0	0.0	0.2	100		43	63.50	13.26
7120.0	0.0	0.1	100		42	63.50	13.26
7125.0	0.0	0.3	100		49	63.50	13.26
7127.0	0.0	0.6	100		47	63.49	13.26
7128.0	0.0	3.5	100		22	63.48	13.26
7129.0	0.0	4.1	100		21	63.45	13.26
7130.0	0.0	0.0	100		44	63.42	13.26
7137.0	0.0	0.0	100		49	63.42	13.26
7138.0	0.0	0.0	100		46	63.42	13.26
7144.0	0.0	0.1	100		45	63.42	13.26
7145.0	0.0	0.1	100		47	63.42	13.26
7159.0	0.0	0.0	100		47	63.41	13.26
7160.0	0.0	0.0	100		48	63.41	13.26
7161.0	0.0	0.0	100		50	63.41	13.26
7163.0	0.0	0.0	100		49	63.41	13.26
7164.0	0.0	0.1	100		39	63.41	13.26
7165.0	0.0	0.0	100		37	63.41	13.26
7166.0	0.0	0.1	100		40	63.41	13.26
7167.0	0.0	0.0	100		47	63.41	13.26

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7170.0	0.0	0.3	100		47	63.41	13.26
7171.0	0.0	0.0	100		46	63.41	13.26
7178.0	0.0	0.0	100		49	63.41	13.26
7179.0	0.0	0.0	100		47	63.41	13.26
7180.0	0.0	0.0	100		50	63.41	13.26
7193.0	0.0	0.1	100		49	63.40	13.26
7194.0	0.0	0.3	100		48	63.40	13.26
7195.0	0.0	0.1	100		47	63.40	13.26
7196.0	0.0	0.0	100		43	63.40	13.26
7197.0	0.0	0.2	100		39	63.40	13.26
7198.0	0.0	0.2	100		39	63.40	13.26
7199.0	0.0	0.6	100		36	63.39	13.26
7200.0	0.0	0.6	100		35	63.39	13.26
7201.0	0.0	0.4	100		36	63.38	13.26
7202.0	0.0	0.0	100		46	63.38	13.26
7205.0	0.0	1.4	100		35	63.37	13.26
7206.0	0.0	3.1	100		24	63.35	13.26
7207.0	0.0	2.7	100		25	63.32	13.26
7208.0	0.0	2.1	100		27	63.29	13.26
7218.0	0.0	0.0	100		48	63.28	13.26
7219.0	0.0	0.0	100		48	63.28	13.26
7220.0	0.0	0.0	100		48	63.28	13.26
7221.0	0.0	0.1	100		47	63.28	13.26
7231.0	0.0	0.0	100		49	63.28	13.26
7246.0	0.0	0.0	100		50	63.28	13.26
7247.0	0.0	0.0	100		49	63.28	13.26
7250.0	0.0	0.0	100		44	63.28	13.26
7251.0	0.0	0.0	100		45	63.28	13.26
7254.0	0.0	0.0	100		48	63.27	13.26
7255.0	0.0	0.0	100		47	63.27	13.26
7256.0	0.0	0.1	100		48	63.27	13.26
7257.0	0.0	0.0	100		48	63.27	13.26
7258.0	0.0	0.0	100		46	63.27	13.26
7259.0	0.0	0.0	100		43	63.27	13.26
7260.0	0.0	0.0	100		43	63.27	13.26
7261.0	0.0	0.0	100		48	63.27	13.26
7262.0	0.0	0.6	100		48	63.27	13.26
7263.0	0.0	2.2	100		31	63.26	13.26
7264.0	0.0	3.9	100		22	63.23	13.26

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7265.0	0.0	0.4	100		36	63.20	13.26
7266.0	0.0	0.0	100		44	63.20	13.26
7267.0	0.0	0.3	100		39	63.20	13.26
7268.0	0.0	0.7	100		33	63.19	13.26
7269.0	0.0	0.1	100		35	63.19	13.26
7270.0	0.0	0.1	100		35	63.18	13.26
7271.0	0.0	1.7	100		29	63.18	13.26
7272.0	0.0	4.3	100		21	63.16	13.26
7273.0	0.0	3.5	100		24	63.12	13.26
7274.0	0.0	2.4	100		32	63.08	13.26
7276.0	0.0	1.2	100		50	63.07	13.26
7277.0	0.0	2.4	100		37	63.05	13.26
7278.0	0.0	3.0	100		28	63.02	13.26
7279.0	0.0	4.2	100		22	62.99	13.26
7280.0	0.0	4.2	100		22	62.95	13.26
7281.0	0.0	4.8	100		20	62.91	13.26
7282.0	0.0	5.5	100		19	62.86	13.26
7283.0	0.0	4.0	100		22	62.81	13.26
7284.0	0.0	3.6	100		25	62.77	13.26
7285.0	0.0	4.1	100		22	62.73	13.26
7286.0	0.0	5.2	100		20	62.69	13.26
7287.0	0.0	4.8	100		20	62.64	13.26
7288.0	0.0	3.8	100		23	62.59	13.26
7289.0	0.0	3.5	100		25	62.55	13.26
7290.0	0.0	3.1	100		26	62.52	13.26
7291.0	0.0	2.5	100		30	62.49	13.26
7292.0	0.0	2.4	100		27	62.47	13.26
7293.0	0.0	3.0	100		25	62.44	13.26
7294.0	0.0	2.3	100		27	62.41	13.26
7295.0	0.0	2.1	100		29	62.39	13.26
7296.0	0.0	0.4	100		38	62.37	13.26
7297.0	0.0	0.0	100		45	62.37	13.26

Schlumberger

ISS =	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

INPUT PARAMETERS FROM 9400. TO 7300.

WMUD	XLIT	BITSZ	BHT	BHTDEP	SUFT	RMF	RMFT	ROMFS	PHIMFS	DASIL
9.2	0.50	7.88	187.	12400.	60.	2.31	58.	1.005	0.994	0.600

SPCK	DSPCK	RODC	DELRGM	START	STOPLG	ZSPNL	BGN	ZSPDL	REC	RESH	CSS
0.	0.	2.84	0.20	12360.	3020.	0.020	1.00	0.000	20.00	1.00	0.2

WHY	PHILEV	BR SLIM	AK	PK	SK	STOPIN	PHIMAX	PHINCL	PHIDCL
.200	0.000	.10 0.30	62500.	6.0	2.0	7300.	0.080	0.250	-0.030

PHINSO	RTPM	PUN	DAX	DALIM	DAGA	DASH	DTSD	DTSH	CP	PSSH
0.090	169.	.015	70.	34.	20.	93.	150.	150.	0.90	.200

EDIAM	PNLIM	PDLIM	RLIM	GRLIM	VARMC	CONST	ROP	VARLIM	CSF
0.00	1.00	1.00	1000.0	1000.0	0.07	0.333	0.31	0.20	0.10

SP STATISTICS OVER ENTIRE INTERVAL

RESISTIVITY STATISTICS OVER ENTIRE INTERVAL

GAMMA - RAY STATISTICS OVER ENTIRE INTERVAL

SONIC STATISTICS OVER ENTIRE INTERVAL

GAMMARAY NOT USED IN CORRECTION OF DOUBTFUL POROSITY DATA
ANALYSIS BY QUASIP MODEL
PERMEABILITY BY TIMUR EQUATION
SP COEFF. FROM STATISTICS
GR COEFF. FROM STATISTICS
SONIC COEFF. FROM STATISTICS
WASAMP ROUTINE USED

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7313.0	0.0	0.0	100		42	62.37	13.26
7314.0	0.0	0.1	100		41	62.37	13.26
7315.0	0.0	0.0	100		43	62.37	13.26
7316.0	0.0	0.1	100		42	62.37	13.26
7317.0	0.0	0.0	100		46	62.37	13.26
7323.0	0.0	0.0	100		49	62.36	13.26
7349.0	0.0	0.0	100		48	62.36	13.26
7358.0	0.0	0.0	100		49	62.36	13.26
7359.0	0.0	0.0	100		44	62.36	13.26
7360.0	0.0	2.7	100		25	62.36	13.26
7361.0	0.0	0.1	100		41	62.34	13.26
7367.0	0.0	0.0	100		49	62.34	13.26
7368.0	0.0	0.0	100		50	62.34	13.26
7373.0	0.0	0.0	100		47	62.34	13.26
7374.0	0.0	0.0	100		44	62.34	13.26
7375.0	0.0	0.0	100		45	62.34	13.26
7396.0	0.0	0.0	100		49	62.34	13.26
7420.0	0.0	0.0	100		44	62.33	13.26
7429.0	0.0	6.8	100		10	62.33	13.26
7430.0	0.0	5.7	100		6	62.26	13.26
7431.0	0.0	3.4	100		13	62.21	13.26
7432.0	0.0	2.2	100		25	62.18	13.26
7433.0	0.0	0.0	100		37	62.17	13.26
7434.0	0.0	0.3	100		34	62.17	13.26
7435.0	0.0	1.0	100		31	62.16	13.26
7436.0	0.0	0.2	100		36	62.15	13.26
7437.0	0.0	0.0	100		49	62.15	13.26
7443.0	0.0	0.0	100		50	62.15	13.26
7454.0	0.0	0.0	100		49	62.15	13.26
7465.0	0.0	0.0	100		48	62.15	13.26
7466.0	0.0	0.0	100		49	62.15	13.26
7503.0	0.0	0.0	100		46	62.15	13.26
7504.0	0.0	0.0	100		36	62.15	13.26
7505.0	0.0	0.0	100		37	62.15	13.26
7506.0	0.0	0.0	100		42	62.15	13.26
7507.0	0.0	0.0	100		44	62.15	13.26

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7508.0	0.0	0.0	100		43	62.15	13.26
7509.0	0.0	0.6	100		33	62.15	13.26
7510.0	0.0	1.4	100		22	62.14	13.26
7511.0	0.0	0.1	100		36	62.12	13.26
7516.0	0.0	0.0	100		46	62.12	13.26
7517.0	0.0	2.3	100		20	62.11	13.26
7518.0	0.0	1.3	100		19	62.09	13.26
7519.0	0.0	2.4	100		19	62.08	13.26
7520.0	0.0	3.2	100		23	62.05	13.26
7525.0	0.0	1.6	100		29	62.03	13.26
7526.0	0.0	0.1	100		41	62.02	13.26
7531.0	0.0	0.1	100		44	62.02	13.26
7532.0	0.0	0.0	100		45	62.02	13.26
7558.0	0.0	0.5	100		35	62.01	13.26
7559.0	0.0	2.4	100		15	62.00	13.26
7560.0	0.0	2.6	98		15	61.97	13.26
7561.0	0.0	3.6	83		16	61.95	13.26
7562.0	0.1	8.2	74		7	61.90	13.25
7563.0	0.0	0.0	100		36	61.83	13.24
7564.0	0.0	0.0	100		49	61.83	13.24
7568.0	0.0	0.0	100		44	61.83	13.24
7569.0	0.0	0.1	100		40	61.83	13.24
7570.0	0.0	0.1	100		41	61.83	13.24
7571.0	0.0	0.0	100		43	61.83	13.24
7580.0	0.0	0.0	100		49	61.83	13.24
7581.0	0.0	0.0	100		48	61.83	13.24
7592.0	0.0	0.0	100		50	61.83	13.24
7596.0	0.0	0.0	100		46	61.83	13.24
7597.0	0.0	0.0	100		45	61.83	13.24
7604.0	0.0	0.0	100		41	61.83	13.24
7605.0	0.0	2.5	100		26	61.83	13.24
7606.0	0.0	0.1	100		38	61.81	13.24
7607.0	0.0	0.0	100		48	61.81	13.24
7608.0	0.0	0.0	100		46	61.81	13.24
7609.0	0.0	0.8	100		32	61.81	13.24
7610.0	0.0	1.1	100		31	61.80	13.24
7611.0	0.0	0.0	100		44	61.79	13.24
7615.0	0.0	0.0	100		50	61.79	13.24

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7623.0	0.0	0.0	100		41	61.79	13.24
7624.0	0.0	0.0	100		47	61.79	13.24
7626.0	0.0	0.0	100		47	61.79	13.24
7631.0	0.0	0.0	100		38	61.79	13.24
7632.0	0.0	1.6	100		23	61.77	13.24
7633.0	0.0	0.6	100		31	61.76	13.24
7634.0	0.0	0.1	100		41	61.75	13.24
7650.0	0.0	0.0	100		48	61.75	13.24
7654.0	0.0	0.0	100		49	61.75	13.24
7655.0	0.0	0.6	100		35	61.75	13.24
7656.0	0.0	0.9	100		32	61.75	13.24
7657.0	0.0	0.6	100		33	61.74	13.24
7658.0	0.0	0.0	100		39	61.73	13.24
7659.0	0.0	0.0	100		48	61.73	13.24
7665.0	0.0	0.0	100		49	61.73	13.24
7666.0	0.0	0.1	100		40	61.73	13.24
7680.0	0.0	0.1	100		46	61.73	13.24
7681.0	0.0	0.1	100		40	61.73	13.24
7682.0	0.0	0.3	100		36	61.73	13.24
7683.0	0.0	0.0	100		41	61.73	13.24
7684.0	0.0	0.1	100		36	61.73	13.24
7685.0	0.0	0.7	100		27	61.72	13.24
7686.0	0.0	1.3	100		24	61.72	13.24
7687.0	0.0	1.4	100		25	61.70	13.24
7688.0	0.0	1.3	100		26	61.69	13.24
7689.0	0.0	1.6	100		25	61.67	13.24
7690.0	0.0	2.4	99		18	61.66	13.24
7691.0	0.0	3.0	100		20	61.63	13.24
7692.0	0.0	3.7	100		22	61.60	13.24
7693.0	0.0	0.0	100		44	61.57	13.24
7714.0	0.0	0.0	100		50	61.57	13.24
7715.0	0.0	0.1	100		41	61.57	13.24
7716.0	0.0	0.0	100		42	61.57	13.24
7724.0	0.0	0.0	100		46	61.57	13.24
7725.0	0.0	2.5	100		24	61.56	13.24
7726.0	0.0	1.7	100		26	61.54	13.24
7727.0	0.0	1.0	100		31	61.52	13.24
7728.0	0.0	2.0	100		27	61.51	13.24
7729.0	0.0	4.6	100		20	61.49	13.24

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7730.0	0.0	3.2	100		23	61.43	13.23
7731.0	0.0	0.0	100		42	61.42	13.23
7751.0	0.0	0.0	100		48	61.42	13.23
7756.0	0.0	0.0	100		48	61.42	13.23
7757.0	0.0	0.2	100		39	61.42	13.23
7758.0	0.0	3.4	100		21	61.41	13.23
7759.0	0.0	6.2	77		15	61.37	13.23
7760.0	0.0	0.0	100		44	61.34	13.23
7766.0	0.0	0.0	100		44	61.34	13.23
7767.0	0.0	0.2	100		39	61.33	13.23
7768.0	0.0	0.0	100		50	61.33	13.23
7781.0	0.0	0.0	100		47	61.33	13.23
7784.0	0.0	0.0	100		49	61.33	13.23
7785.0	0.0	0.0	100		43	61.33	13.23
7786.0	0.0	0.0	100		40	61.33	13.23
7787.0	0.0	0.1	100		43	61.33	13.23
7791.0	0.0	0.0	100		41	61.33	13.23
7792.0	0.0	2.4	100		21	61.32	13.23
7793.0	0.0	3.4	98		14	61.30	13.23
7794.0	0.0	4.2	87		14	61.26	13.22
7795.0	0.0	4.3	100		15	61.22	13.22
7796.0	0.0	1.5	100		29	61.18	13.22
7798.0	0.0	0.0	100		44	61.17	13.22
7799.0	0.0	2.1	100		26	61.16	13.22
7800.0	0.0	0.0	100		36	61.15	13.22
7810.0	0.0	0.0	100		49	61.15	13.22
7811.0	0.0	0.1	100		40	61.15	13.22
7812.0	0.0	1.6	100		27	61.14	13.22
7813.0	0.0	1.4	100		20	61.13	13.22
7814.0	0.0	1.1	100		19	61.11	13.22
7815.0	0.0	0.0	100		26	61.11	13.22
7816.0	0.0	0.0	100		35	61.11	13.22
7817.0	0.0	0.0	100		39	61.11	13.22
7826.0	0.0	0.0	100		44	61.11	13.22
7827.0	0.0	0.0	100		40	61.11	13.22
7828.0	0.0	0.0	100		39	61.11	13.22
7829.0	0.0	0.0	100		37	61.11	13.22
7830.0	0.0	0.4	100		34	61.11	13.22
7831.0	0.0	0.8	100		27	61.10	13.22

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7832.0	0.0	1.8	100		20	61.09	13.22
7833.0	0.0	1.7	100		18	61.07	13.22
7834.0	0.0	1.7	100		17	61.05	13.22
7835.0	0.0	2.5	100		17	61.04	13.22
7836.0	0.0	3.4	99		16	61.01	13.22
7837.0	0.0	4.1	85		17	60.97	13.22
7838.0	0.0	4.8	70		17	60.93	13.21
7839.0	0.0	5.2	75		14	60.88	13.20
7840.0	0.0	5.5	75		14	60.83	13.18
7841.0	0.0	5.6	82		12	60.77	13.17
7842.0	0.0	5.7	85		11	60.71	13.16
7843.0	0.0	6.3	78		10	60.66	13.15
7844.0	0.0	6.9	74		8	60.59	13.13
7845.0	0.0	7.0	71		9	60.52	13.12
7846.0	0.0	6.9	70		10	60.45	13.09
7847.0	0.0	6.9	69		9	60.38	13.07
7848.0	0.1	6.9	65		11	60.31	13.05
7849.0	0.1	6.5	63		13	60.25	13.03
7850.0	0.0	5.2	81		13	60.18	13.01
7851.0	0.0	3.1	100		24	60.13	13.00
7852.0	0.0	0.2	100		46	60.11	13.00
7865.0	0.0	0.0	100		42	60.11	13.00
7872.0	0.0	0.0	100		43	60.11	13.00
7873.0	0.0	0.0	100		44	60.11	13.00
7874.0	0.0	0.0	100		50	60.11	13.00
7883.0	0.0	0.1	100		43	60.11	13.00
7884.0	0.0	0.0	100		48	60.11	13.00
7890.0	0.0	0.0	100		48	60.11	13.00
7895.0	0.0	0.0	100		50	60.11	13.00
7904.0	0.0	0.0	100		45	60.11	13.00
7905.0	0.0	0.0	100		47	60.11	13.00
7906.0	0.0	0.0	100		49	60.11	13.00
7925.0	0.0	0.0	100		46	60.11	13.00
7926.0	0.0	0.1	100		40	60.11	13.00
7927.0	0.0	0.2	100		37	60.11	13.00
7928.0	0.0	0.2	100		35	60.11	13.00
7929.0	0.0	0.3	100		34	60.10	13.00
7930.0	0.0	0.0	100		36	60.10	13.00
7931.0	0.0	0.1	100		44	60.10	13.00
7936.0	0.0	0.0	100		47	60.10	13.00

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
7937.0	0.0	0.0	100		48	60.10	13.00
7940.0	0.0	0.0	100		47	60.10	13.00
7941.0	0.0	0.0	100		44	60.10	13.00
7942.0	0.0	0.0	100		42	60.10	13.00
7943.0	0.0	0.0	100		42	60.10	13.00
7944.0	0.0	0.0	100		44	60.10	13.00
7945.0	0.0	0.0	100		43	60.10	13.00
7946.0	0.0	0.0	100		42	60.10	13.00
7947.0	0.0	0.0	100		41	60.10	13.00
7948.0	0.0	0.1	100		41	60.10	13.00
7949.0	0.0	0.0	100		48	60.10	13.00
7958.0	0.0	0.0	100		47	60.10	13.00
7959.0	0.0	0.0	100		50	60.10	13.00
7961.0	0.0	0.0	100		49	60.10	13.00
7972.0	0.0	0.1	100		39	60.10	13.00
7973.0	0.0	0.0	100		47	60.10	13.00
7976.0	0.0	0.0	100		49	60.10	13.00
7977.0	0.0	0.8	100		34	60.10	13.00
7978.0	0.0	0.8	100		32	60.08	13.00
7979.0	0.0	0.0	100		38	60.07	13.00
7980.0	0.0	0.0	100		47	60.07	13.00
7985.0	0.0	0.0	100		48	60.07	13.00
7986.0	0.0	0.1	100		44	60.07	13.00
7987.0	0.0	0.2	100		35	60.07	13.00
7988.0	0.0	2.1	100		21	60.06	13.00
7989.0	0.0	2.3	100		21	60.04	13.00
7990.0	0.0	2.0	100		23	60.02	13.00
7991.0	0.0	2.3	100		20	60.00	13.00
7992.0	0.0	3.8	100		14	59.97	13.00
7993.0	0.0	5.1	84		13	59.93	13.00
7994.0	0.0	5.9	77		12	59.88	12.99
7995.0	0.0	6.3	72		12	59.82	12.97
7996.0	0.0	6.4	70		14	59.75	12.96
7997.0	0.0	6.9	69		11	59.69	12.94
7998.0	0.0	6.9	67		11	59.62	12.91
7999.0	0.0	5.9	74		12	59.55	12.89
8000.0	0.0	5.0	80		14	59.50	12.88
8001.0	0.0	4.3	97		14	59.45	12.87
8002.0	0.0	2.7	100		18	59.41	12.87
8003.0	0.0	2.9	100		17	59.38	12.87
8004.0	0.0	2.5	100		22	59.35	12.87
8005.0	0.0	0.0	100		39	59.33	12.87

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8010.0	0.0	0.0	100		48	59.33	12.87
8011.0	0.0	0.1	100		39	59.33	12.87
8012.0	0.0	1.3	100		30	59.33	12.87
8013.0	0.0	3.2	99		16	59.31	12.87
8014.0	0.0	5.1	100		6	59.27	12.87
8015.0	0.2	9.3	76		3	59.21	12.87
8016.0	0.0	0.0	100		40	59.16	12.86
8030.0	0.0	0.0	100		50	59.16	12.86
8031.0	0.0	0.0	100		44	59.16	12.86
8032.0	0.0	0.0	100		38	59.16	12.86
8033.0	0.0	0.1	100		43	59.16	12.86
8039.0	0.0	0.0	100		49	59.16	12.86
8043.0	0.0	0.0	100		50	59.16	12.86
8044.0	0.0	0.0	100		44	59.16	12.86
8045.0	0.0	0.0	100		44	59.16	12.86
8046.0	0.0	0.1	100		46	59.16	12.86
8047.0	0.0	0.2	100		43	59.16	12.86
8048.0	0.0	0.9	100		32	59.16	12.86
8049.0	0.0	3.2	100		15	59.14	12.86
8050.0	0.0	3.9	100		12	59.11	12.86
8051.0	0.0	4.4	100		12	59.07	12.86
8052.0	0.0	5.6	85		13	59.02	12.86
8053.0	0.0	5.8	78		16	58.96	12.85
8054.0	0.0	5.9	73		16	58.90	12.83
8055.0	0.0	5.7	69		17	58.84	12.82
8056.0	0.0	5.5	76		18	58.79	12.80
8057.0	0.0	1.9	100		30	58.74	12.79
8058.0	0.0	0.9	100		50	58.72	12.79
8066.0	0.0	0.0	100		46	58.70	12.79
8067.0	0.0	0.0	100		42	58.70	12.79
8068.0	0.0	0.0	100		39	58.70	12.79
8069.0	0.0	0.1	100		37	58.70	12.79
8070.0	0.0	0.0	100		42	58.70	12.79
8073.0	0.0	0.0	100		42	58.70	12.79
8074.0	0.0	0.0	100		40	58.70	12.79
8075.0	0.0	0.0	100		46	58.70	12.79
8083.0	0.0	0.0	100		40	58.70	12.79
8084.0	0.0	0.6	100		33	58.70	12.79
8085.0	0.0	0.1	100		37	58.70	12.79
8092.0	0.0	0.5	100		34	58.69	12.79

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8093.0	0.0	2.0	100		27	58.68	12.79
8094.0	0.0	0.0	100		47	58.67	12.79
8097.0	0.0	0.0	100		46	58.67	12.79
8098.0	0.0	0.0	100		39	58.67	12.79
8099.0	0.0	0.0	100		43	58.67	12.79
8115.0	0.0	0.0	100		46	58.67	12.79
8116.0	0.0	0.0	100		37	58.67	12.79
8117.0	0.0	0.0	100		37	58.67	12.79
8118.0	0.0	0.0	100		38	58.67	12.79
8119.0	0.0	0.0	100		48	58.67	12.79
8130.0	0.0	0.0	100		42	58.67	12.79
8131.0	0.0	0.0	100		36	58.67	12.79
8132.0	0.0	0.5	100		34	58.66	12.79
8133.0	0.0	0.0	100		41	58.65	12.79
8134.0	0.0	0.0	100		49	58.65	12.79
8145.0	0.0	0.0	100		45	58.65	12.79
8146.0	0.0	0.0	100		48	58.65	12.79
8148.0	0.0	0.0	100		48	58.65	12.79
8149.0	0.0	0.0	100		38	58.65	12.79
8150.0	0.0	0.0	100		37	58.64	12.79
8151.0	0.0	0.0	100		41	58.64	12.79
8152.0	0.0	0.0	100		38	58.64	12.79
8153.0	0.0	0.0	100		40	58.64	12.79
8154.0	0.0	0.0	100		49	58.64	12.79
8158.0	0.0	0.0	100		48	58.64	12.79
8159.0	0.0	0.0	100		45	58.64	12.79
8160.0	0.0	0.0	100		41	58.64	12.79
8161.0	0.0	0.0	100		39	58.64	12.79
8162.0	0.0	0.0	100		39	58.64	12.79
8163.0	0.0	0.0	100		38	58.64	12.79
8164.0	0.0	0.2	100		35	58.64	12.79
8165.0	0.0	1.5	100		26	58.64	12.79
8166.0	0.0	1.9	100		22	58.62	12.79
8167.0	0.0	1.6	100		20	58.60	12.79
8168.0	0.0	1.5	100		19	58.59	12.79
8169.0	0.0	1.6	100		18	58.57	12.79
8170.0	0.0	2.5	100		19	58.55	12.79
8171.0	0.0	4.1	100		13	58.52	12.79
8172.0	0.0	4.8	76		11	58.48	12.79
8173.0	0.0	4.7	81		12	58.43	12.78
8174.0	0.0	4.5	90		13	58.38	12.77
8175.0	0.0	4.5	96		12	58.34	12.76

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8176.0	0.0	5.2	83		12	58.29	12.76
8177.0	0.0	6.2	72		11	58.24	12.75
8178.0	0.0	6.6	73		10	58.17	12.73
8179.0	0.0	5.9	89		9	58.11	12.72
8180.0	0.0	5.9	89		10	58.05	12.71
8181.0	0.0	5.5	93		11	57.99	12.70
8182.0	0.0	5.2	90		12	57.94	12.70
8183.0	0.0	5.1	99		11	57.89	12.69
8184.0	0.0	4.5	100		19	57.84	12.69
8185.0	0.0	0.1	100		44	57.81	12.69
8188.0	0.0	0.0	100		46	57.80	12.69
8189.0	0.0	0.0	100		47	57.80	12.69
8190.0	0.0	0.0	100		45	57.80	12.69
8191.0	0.0	0.0	100		46	57.80	12.69
8192.0	0.0	0.0	100		46	57.80	12.69
8193.0	0.0	0.0	100		45	57.80	12.69
8208.0	0.0	0.0	100		44	57.80	12.69
8209.0	0.0	0.0	100		33	57.80	12.69
8210.0	0.0	0.0	100		36	57.80	12.69
8221.0	0.0	0.0	100		49	57.80	12.69
8222.0	0.0	0.0	100		39	57.80	12.69
8223.0	0.0	0.1	100		36	57.80	12.69
8224.0	0.0	0.6	100		33	57.80	12.69
8225.0	0.0	0.4	100		34	57.79	12.69
8226.0	0.0	0.9	100		30	57.79	12.69
8227.0	0.0	1.1	100		20	57.78	12.69
8228.0	0.0	0.6	100		21	57.77	12.69
8229.0	0.0	1.7	100		19	57.76	12.69
8230.0	0.0	2.5	100		18	57.74	12.69
8231.0	0.0	2.6	100		16	57.72	12.69
8232.0	0.0	2.4	100		15	57.69	12.69
8233.0	0.0	2.9	100		15	57.67	12.69
8234.0	0.0	3.8	97		15	57.63	12.69
8235.0	0.0	3.4	100		13	57.60	12.69
8236.0	0.0	3.3	100		12	57.56	12.69
8237.0	0.0	4.3	100		11	57.53	12.69
8238.0	0.0	5.1	97		10	57.48	12.69
8239.0	0.0	5.6	95		9	57.43	12.69
8240.0	0.0	5.7	100		8	57.37	12.69
8241.0	0.0	5.3	100		6	57.32	12.69
8242.0	0.0	5.8	100		5	57.26	12.69
8243.0	0.0	7.4	91		4	57.20	12.69
8244.0	0.1	7.9	83		3	57.13	12.68
8245.0	0.1	7.9	79		3	57.05	12.67
8246.0	0.1	7.9	97		3	56.97	12.66

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8247.0	0.1	7.5	92		3	56.89	12.65
8248.0	0.1	7.5	92		3	56.82	12.64
8249.0	0.1	7.8	84		4	56.74	12.64
8250.0	0.0	7.1	88		6	56.66	12.63
8251.0	0.0	6.8	87		7	56.59	12.62
8252.0	0.0	6.7	74		9	56.52	12.60
8253.0	0.0	6.1	75		9	56.46	12.59
8254.0	0.0	5.0	92		12	56.40	12.58
8255.0	0.0	4.0	100		20	56.35	12.57
8256.0	0.0	1.7	100		32	56.32	12.57
8268.0	0.0	0.0	100		49	56.27	12.57
8269.0	0.0	0.1	100		29	56.27	12.57
8270.0	0.0	0.0	100		27	56.27	12.57
8271.0	0.0	3.1	84		26	56.27	12.57
8272.0	0.0	0.0	100		43	56.25	12.57
8273.0	0.0	0.0	100		46	56.25	12.57
8274.0	0.0	0.0	100		50	56.25	12.57
8279.0	0.0	0.5	100		35	56.25	12.57
8280.0	0.0	2.0	100		23	56.24	12.57
8281.0	0.0	3.6	95		15	56.21	12.57
8282.0	0.0	7.2	67		10	56.17	12.56
8283.0	0.0	0.0	100		36	56.10	12.54
8284.0	0.0	0.0	100		48	56.10	12.54
8287.0	0.0	0.0	100		43	56.10	12.54
8288.0	0.0	0.0	100		46	56.10	12.54
8300.0	0.0	0.0	100		45	56.10	12.54
8301.0	0.0	0.0	100		42	56.10	12.54
8302.0	0.0	0.0	100		40	56.10	12.54
8303.0	0.0	0.0	100		42	56.10	12.54
8304.0	0.0	0.0	100		45	56.10	12.54
8305.0	0.0	0.0	100		49	56.10	12.54
8306.0	0.0	0.0	100		49	56.10	12.54
8314.0	0.0	0.0	100		49	56.10	12.54
8323.0	0.0	0.0	100		44	56.10	12.54
8324.0	0.0	0.0	100		46	56.10	12.54
8325.0	0.0	0.0	100		50	56.10	12.54
8327.0	0.0	0.0	100		47	56.10	12.54
8332.0	0.0	0.0	100		49	56.10	12.54
8333.0	0.0	0.0	100		46	56.10	12.54
8334.0	0.0	0.0	100		47	56.10	12.54

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8335.0	0.0	0.0	100		43	56.10	12.54
8336.0	0.0	0.0	100		43	56.10	12.54
8353.0	0.0	0.0	100		49	56.10	12.54
8354.0	0.0	0.0	100		44	56.10	12.54
8355.0	0.0	0.0	100		47	56.10	12.54
8360.0	0.0	0.0	100		50	56.10	12.54
8362.0	0.0	0.0	100		48	56.10	12.54
8363.0	0.0	0.0	100		44	56.10	12.54
8366.0	0.0	0.0	100		49	56.10	12.54
8367.0	0.0	0.0	100		48	56.10	12.54
8368.0	0.0	0.0	100		49	56.10	12.54
8369.0	0.0	0.0	100		47	56.10	12.54
8370.0	0.0	0.0	100		44	56.10	12.54
8371.0	0.0	0.1	100		39	56.10	12.54
8372.0	0.0	0.1	100		40	56.09	12.54
8373.0	0.0	0.0	100		47	56.09	12.54
8383.0	0.0	0.0	100		48	56.09	12.54
8387.0	0.0	0.0	100		41	56.09	12.54
8388.0	0.0	1.5	100		26	56.09	12.54
8389.0	0.0	3.9	100		10	56.07	12.54
8390.0	0.0	5.9	100		1	56.03	12.54
8391.0	0.0	7.1	85		7	55.97	12.54
8392.0	0.0	0.0	100		39	55.91	12.54
8393.0	0.0	0.0	100		44	55.91	12.54
8394.0	0.0	0.0	100		48	55.91	12.54
8397.0	0.0	0.1	100		43	55.91	12.54
8411.0	0.0	0.0	100		46	55.91	12.54
8412.0	0.0	0.0	100		46	55.91	12.54
8425.0	0.0	0.0	100		49	55.91	12.54
8426.0	0.0	0.0	100		41	55.91	12.54
8427.0	0.0	0.0	100		43	55.91	12.54
8428.0	0.0	0.0	100		44	55.91	12.54
8432.0	0.0	0.0	100		46	55.91	12.54
8433.0	0.0	0.0	100		40	55.91	12.54
8434.0	0.0	0.0	100		48	55.91	12.54
8439.0	0.0	0.0	100		45	55.91	12.54
8440.0	0.0	0.0	100		43	55.91	12.54

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8441.0	0.0	0.1	100		36	55.91	12.54
8442.0	0.0	0.4	100		34	55.91	12.54
8443.0	0.0	0.6	100		33	55.90	12.54
8444.0	0.0	0.5	100		33	55.90	12.54
8445.0	0.0	0.0	100		36	55.89	12.54
8446.0	0.0	0.0	100		42	55.89	12.54
8447.0	0.0	0.0	100		47	55.89	12.54
8448.0	0.0	0.0	100		49	55.89	12.54
8453.0	0.0	0.0	100		47	55.89	12.54
8454.0	0.0	0.0	100		41	55.89	12.54
8455.0	0.0	0.0	100		42	55.89	12.54
8456.0	0.0	0.0	100		44	55.89	12.54
8457.0	0.0	0.0	100		48	55.89	12.54
8461.0	0.0	0.0	100		48	55.89	12.54
8462.0	0.0	0.0	100		46	55.89	12.54
8463.0	0.0	0.0	100		48	55.89	12.54
8466.0	0.0	0.0	100		49	55.89	12.54
8469.0	0.0	0.0	100		47	55.89	12.54
8470.0	0.0	0.0	100		48	55.89	12.54
8483.0	0.0	0.0	100		48	55.89	12.54
8484.0	0.0	0.0	100		46	55.89	12.54
8485.0	0.0	0.0	100		48	55.89	12.54
8486.0	0.0	0.0	100		49	55.89	12.54
8487.0	0.0	2.4	100		26	55.89	12.54
8488.0	0.0	4.4	100		19	55.86	12.54
8489.0	0.0	0.0	100		47	55.83	12.54
8492.0	0.0	0.0	100		49	55.83	12.54
8493.0	0.0	0.1	100		36	55.83	12.54
8494.0	0.0	3.3	100		23	55.81	12.54
8495.0	0.0	3.2	100		23	55.78	12.54
8496.0	0.0	3.8	100		16	55.75	12.54
8497.0	0.0	3.9	100		11	55.71	12.54
8498.0	0.0	2.4	100		11	55.67	12.54
8499.0	0.0	2.3	100		13	55.65	12.54
8500.0	0.0	2.6	100		14	55.63	12.54
8501.0	0.0	3.0	100		12	55.60	12.54
8502.0	0.0	3.2	99		12	55.57	12.54
8503.0	0.0	2.4	100		20	55.54	12.54
8504.0	0.0	0.7	100		32	55.51	12.54
8505.0	0.0	0.0	100		43	55.51	12.54
8516.0	0.0	0.0	100		43	55.51	12.54

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8517.0	0.0	1.2	100		30	55.51	12.54
8518.0	0.0	1.9	100		26	55.49	12.54
8519.0	0.0	1.4	100		26	55.47	12.54
8520.0	0.0	0.1	100		35	55.46	12.54
8521.0	0.0	0.0	100		44	55.46	12.54
8522.0	0.0	0.3	100		37	55.46	12.54
8523.0	0.0	4.1	95		16	55.44	12.54
8524.0	0.0	6.9	80		4	55.40	12.53
8525.0	2	11.4	61		0	55.32	12.51
8526.0	0.0	0.0	100		35	55.23	12.49
8527.0	0.0	0.0	100		45	55.23	12.49
8528.0	0.0	0.0	100		49	55.23	12.49
8534.0	0.0	0.0	100		46	55.23	12.49
8539.0	0.0	0.0	100		49	55.23	12.49
8542.0	0.0	0.0	100		47	55.23	12.49
8543.0	0.0	0.0	100		46	55.23	12.49
8545.0	0.0	0.0	100		49	55.23	12.49
8546.0	0.0	0.0	100		46	55.23	12.49
8547.0	0.0	0.0	100		43	55.23	12.49
8554.0	0.0	0.0	100		47	55.23	12.49
8555.0	0.0	0.0	100		42	55.23	12.49
8556.0	0.0	0.0	100		45	55.23	12.49
8557.0	0.0	0.0	100		41	55.23	12.49
8558.0	0.0	0.0	100		42	55.23	12.49
8559.0	0.0	0.0	100		47	55.23	12.49
8560.0	0.0	0.0	100		40	55.23	12.49
8561.0	0.0	3.9	74		20	55.21	12.49
8562.0	0.3	7.8	62		11	55.17	12.47
8563.0	0.0	0.0	100		38	55.13	12.46
8564.0	0.0	0.0	100		47	55.13	12.46
8567.0	0.0	0.0	100		49	55.13	12.46
8568.0	0.0	0.0	100		47	55.13	12.46
8574.0	0.0	0.0	100		45	55.13	12.46
8575.0	0.0	0.0	100		39	55.13	12.46
8576.0	0.0	0.0	100		38	55.13	12.46
8577.0	0.0	0.6	100		37	55.12	12.46
8578.0	0.0	0.2	100		43	55.12	12.46
8579.0	0.0	0.2	100		43	55.12	12.46
8580.0	0.0	3.6	100		19	55.11	12.46
8581.0	0.0	4.5	100		14	55.07	12.46
8582.0	0.0	5.0	99		12	55.03	12.46

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8583.0	0.0	5.2	99		12	54.98	12.46
8584.0	0.0	5.4	98		13	54.92	12.46
8585.0	0.0	5.4	100		12	54.87	12.46
8586.0	0.0	6.0	99		12	54.81	12.46
8587.0	0.0	6.3	97		11	54.75	12.45
8588.0	0.0	6.7	87		11	54.69	12.45
8589.0	0.0	6.9	87		10	54.62	12.44
8590.0	0.0	6.5	92		10	54.55	12.43
8591.0	0.0	6.7	83		10	54.49	12.43
8592.0	0.0	6.7	76		10	54.42	12.41
8593.0	0.0	6.0	86		11	54.35	12.40
8594.0	0.0	5.5	94		12	54.30	12.39
8595.0	0.0	5.0	94		15	54.24	12.39
8596.0	0.0	4.5	99		16	54.19	12.39
8597.0	0.0	3.9	100		18	54.15	12.39
8598.0	0.0	2.2	100		27	54.11	12.39
8599.0	0.0	0.7	100		37	54.09	12.39
8608.0	0.0	1.0	100		40	54.04	12.39
8609.0	0.0	4.6	75		16	54.03	12.39
8610.0	0.0	2.7	100		12	53.99	12.38
8611.0	0.0	3.7	75		11	53.96	12.38
8612.0	0.0	4.7	71		11	53.92	12.37
8613.0	0.0	5.1	79		10	53.87	12.36
8614.0	0.0	5.0	95		9	53.82	12.35
8615.0	0.0	5.0	99		8	53.77	12.35
8616.0	0.0	5.1	98		10	53.72	12.35
8617.0	0.0	5.5	94		9	53.67	12.34
8618.0	0.0	5.6	92		8	53.61	12.34
8619.0	0.0	5.1	97		10	53.56	12.34
8620.0	0.0	4.7	100		9	53.51	12.33
8621.0	0.0	4.4	100		9	53.46	12.33
8622.0	0.0	3.8	100		15	53.42	12.33
8623.0	0.0	3.0	100		24	53.38	12.33
8624.0	0.0	0.1	100		45	53.36	12.33
8625.0	0.0	0.0	100		45	53.36	12.33
8626.0	0.0	0.0	100		40	53.36	12.33
8627.0	0.0	0.0	100		41	53.36	12.33
8628.0	0.0	0.0	100		45	53.36	12.33
8629.0	0.0	0.0	100		48	53.36	12.33
8630.0	0.0	0.0	100		43	53.36	12.33
8631.0	0.0	0.0	100		42	53.36	12.33
8642.0	0.0	0.0	100		36	53.36	12.33
8643.0	0.0	0.0	100		27	53.36	12.33
8644.0	0.0	0.0	100		35	53.36	12.33
8645.0	0.0	0.0	100		42	53.36	12.33
8646.0	0.0	0.0	100		43	53.36	12.33

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8647.0	0.0	0.0	100		45.	53.36	12.33
8649.0	0.0	0.0	100		47	53.36	12.33
8650.0	0.0	0.0	100		46	53.36	12.33
8651.0	0.0	0.0	100		44	53.36	12.33
8652.0	0.0	0.0	100		42	53.36	12.33
8653.0	0.0	0.0	100		43	53.36	12.33
8654.0	0.0	0.0	100		45	53.36	12.33
8655.0	0.0	0.0	100		49	53.36	12.33
8673.0	0.0	0.0	100		47	53.36	12.33
8674.0	0.0	0.0	100		40	53.36	12.33
8675.0	0.0	0.0	100		39	53.36	12.33
8676.0	0.0	0.0	100		49	53.36	12.33
8678.0	0.0	0.0	100		49	53.36	12.33
8679.0	0.0	0.0	100		49	53.36	12.33
8683.0	0.0	0.0	100		49	53.36	12.33
8684.0	0.0	0.0	100		50	53.36	12.33
8688.0	0.0	0.0	100		50	53.36	12.33
8692.0	0.0	0.0	100		50	53.36	12.33
8693.0	0.0	0.0	100		45	53.36	12.33
8694.0	0.0	0.0	100		46	53.36	12.33
8695.0	0.0	0.0	100		49	53.36	12.33
8709.0	0.0	0.0	100		45	53.36	12.33
8710.0	0.0	0.0	100		38	53.36	12.33
8711.0	0.0	0.0	100		36	53.36	12.33
8712.0	0.0	0.2	100		39	53.36	12.33
8721.0	0.0	0.0	100		49	53.36	12.33
8722.0	0.0	0.0	100		42	53.36	12.33
8723.0	0.0	0.1	100		35	53.35	12.33
8724.0	0.0	0.5	100		32	53.35	12.33
8725.0	0.0	0.8	100		28	53.35	12.33
8726.0	0.0	1.3	100		25	53.34	12.33
8727.0	0.0	2.5	100		20	53.32	12.33
8728.0	0.0	3.4	97		17	53.29	12.33
8729.0	0.0	3.5	96		18	53.26	12.33
8730.0	0.0	4.0	84		19	53.22	12.33
8731.0	0.0	4.3	82		16	53.18	12.32
8732.0	0.0	4.3	83		16	53.14	12.32
8733.0	0.0	4.1	90		16	53.10	12.31
8734.0	0.0	3.9	93		15	53.06	12.31
8735.0	0.0	3.9	90		13	53.02	12.30

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8736.0	0.0	3.0	98		16	52.98	12.30
8737.0	0.0	0.6	100		28	52.95	12.30
8738.0	0.0	0.0	100		37	52.95	12.30
8739.0	0.0	0.0	100		37	52.95	12.30
8740.0	0.0	0.0	100		38	52.95	12.30
8741.0	0.0	0.0	100		38	52.95	12.30
8742.0	0.0	0.0	100		36	52.95	12.30
8743.0	0.0	1.5	100		25	52.95	12.30
8744.0	0.0	2.8	97		17	52.93	12.30
8745.0	0.0	2.7	99		16	52.90	12.30
8746.0	0.0	1.5	100		20	52.88	12.30
8747.0	0.0	1.9	100		19	52.86	12.30
8748.0	0.0	3.0	100		15	52.84	12.30
8749.0	0.0	2.9	100		17	52.81	12.30
8750.0	0.0	3.1	99		15	52.78	12.30
8751.0	0.0	3.3	96		15	52.75	12.30
8752.0	0.0	3.2	100		16	52.72	12.30
8753.0	0.0	3.7	99		16	52.68	12.30
8754.0	0.0	4.1	72		21	52.65	12.29
8755.0	0.0	0.3	100		37	52.61	12.28
8763.0	0.0	0.0	100		49	52.61	12.28
8764.0	0.0	0.0	100		45	52.61	12.28
8765.0	0.0	0.0	100		42	52.61	12.28
8766.0	0.0	0.0	100		43	52.61	12.28
8767.0	0.0	0.0	100		49	52.61	12.28
8769.0	0.0	0.0	100		48	52.61	12.28
8770.0	0.0	0.0	100		41	52.61	12.28
8771.0	0.0	0.0	100		40	52.61	12.28
8772.0	0.0	0.0	100		44	52.61	12.28
8773.0	0.0	0.0	100		48	52.61	12.28
8777.0	0.0	0.0	100		44	52.61	12.28
8778.0	0.0	0.0	100		38	52.61	12.28
8779.0	0.0	0.0	100		44	52.61	12.28
8783.0	0.0	0.0	100		47	52.61	12.28
8786.0	0.0	0.1	100		38	52.61	12.28
8787.0	0.0	1.8	100		28	52.60	12.28
8788.0	0.0	0.5	100		35	52.59	12.28
8796.0	0.0	0.0	100		49	52.58	12.28
8797.0	0.0	0.0	100		40	52.58	12.28
8798.0	0.0	1.8	100		28	52.57	12.28
8799.0	0.0	1.4	100		29	52.56	12.28
8800.0	0.0	0.1	100		39	52.55	12.28

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8801.0	0.0	0.0	100		46	52.55	12.28
8802.0	0.0	0.0	100		49	52.55	12.28
8804.0	0.0	0.0	100		46	52.55	12.28
8805.0	0.0	0.0	100		39	52.55	12.28
8806.0	0.0	0.0	100		36	52.55	12.28
8807.0	0.0	0.0	100		36	52.55	12.28
8808.0	0.0	0.0	100		36	52.55	12.28
8809.0	0.0	0.0	100		39	52.55	12.28
8810.0	0.0	0.0	100		47	52.55	12.28
8811.0	0.0	0.0	100		47	52.55	12.28
8814.0	0.0	0.1	100		50	52.55	12.28
8815.0	0.0	0.0	100		48	52.55	12.28
8816.0	0.0	0.0	100		42	52.55	12.28
8817.0	0.0	2.9	100		24	52.54	12.28
8818.0	0.1	6.3	63		9	52.51	12.28
8819.0	2	11.4	53		0	52.43	12.25
8820.0	0.0	0.0	100		34	52.33	12.20
8821.0	0.0	0.0	100		39	52.33	12.20
8822.0	0.0	0.0	100		41	52.33	12.20
8823.0	0.0	0.0	100		45	52.33	12.20
8824.0	0.0	0.0	100		45	52.33	12.20
8825.0	0.0	0.0	100		47	52.33	12.20
8830.0	0.0	0.0	100		47	52.33	12.20
8831.0	0.0	0.0	100		48	52.33	12.20
8833.0	0.0	0.0	100		47	52.33	12.20
8834.0	0.0	0.3	100		38	52.33	12.20
8835.0	0.0	0.3	100		38	52.32	12.20
8836.0	0.0	0.0	100		49	52.32	12.20
8839.0	0.0	0.1	100		46	52.32	12.20
8840.0	0.0	0.3	100		38	52.32	12.20
8841.0	0.0	1.8	100		27	52.31	12.20
8842.0	0.0	2.4	100		19	52.30	12.20
8843.0	0.0	2.2	100		20	52.27	12.20
8844.0	0.0	2.1	100		22	52.25	12.20
8845.0	0.0	2.5	100		21	52.23	12.20
8846.0	0.0	1.9	100		22	52.21	12.20
8847.0	0.0	1.9	100		22	52.19	12.20
8848.0	0.0	2.4	100		22	52.17	12.20
8849.0	0.0	2.6	100		21	52.14	12.20
8850.0	0.0	2.1	100		21	52.12	12.20
8851.0	0.0	1.8	100		23	52.10	12.20
8852.0	0.0	2.0	100		27	52.08	12.20
8853.0	0.0	0.3	100		43	52.07	12.20

Schlumberger

DEPTH FEET	PERM. Md	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8866.0	0.0	0.0	100		45	52.06	12.20
8867.0	0.0	4.6	69		21	52.05	12.20
8868.0	0.0	2.6	100		25	52.01	12.20
8869.0	0.0	0.0	100		36	51.99	12.20
8870.0	0.0	0.0	100		44	51.99	12.20
8871.0	0.0	0.0	100		48	51.99	12.20
8872.0	0.0	0.0	100		47	51.99	12.20
8873.0	0.0	0.0	100		44	51.99	12.20
8877.0	0.0	0.0	100		49	51.99	12.20
8878.0	0.0	0.5	100		34	51.99	12.20
8879.0	0.0	0.0	100		30	51.98	12.20
8880.0	0.0	0.0	100		34	51.98	12.20
8881.0	0.0	0.3	100		34	51.98	12.20
8882.0	0.0	0.4	100		36	51.98	12.20
8883.0	0.0	0.0	100		47	51.97	12.20
8885.0	0.0	0.0	100		45	51.97	12.20
8886.0	0.0	0.0	100		44	51.97	12.20
8890.0	0.0	0.0	100		49	51.97	12.20
8891.0	0.0	0.0	100		46	51.97	12.20
8898.0	0.0	0.7	100		32	51.97	12.20
8899.0	0.0	2.6	100		18	51.95	12.20
8900.0	0.0	2.2	100		25	51.93	12.20
8905.0	0.0	0.0	100		43	51.92	12.20
8906.0	0.0	0.0	100		43	51.92	12.20
8907.0	0.0	0.1	100		39	51.92	12.20
8908.0	0.0	2.7	100		18	51.91	12.20
8909.0	0.0	2.0	100		17	51.88	12.20
8910.0	0.0	2.1	100		16	51.86	12.20
8911.0	0.0	2.4	100		19	51.84	12.20
8912.0	0.0	0.5	100		35	51.82	12.20
8920.0	0.0	0.0	100		44	51.81	12.20
8923.0	0.0	0.0	100		40	51.81	12.20
8924.0	0.0	0.0	100		36	51.81	12.20
8925.0	0.0	0.0	100		36	51.81	12.20
8926.0	0.0	0.1	100		41	51.81	12.20
8927.0	0.0	0.0	100		49	51.81	12.20
8937.0	0.0	0.0	100		41	51.81	12.20
8938.0	0.0	0.0	100		37	51.81	12.20
8939.0	0.0	0.0	100		45	51.81	12.20

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
8940.0	0.0	0.0	100		47	51.81	12.20
8944.0	0.0	0.0	100		43	51.81	12.20
8945.0	0.0	0.0	100		37	51.81	12.20
8946.0	0.0	0.0	100		44	51.81	12.20
8947.0	0.0	0.0	100		42	51.81	12.20
8948.0	0.0	0.4	100		34	51.81	12.20
8949.0	0.0	2.8	100		24	51.80	12.20
8950.0	0.0	3.2	99		17	51.77	12.20
8951.0	0.0	1.9	100		16	51.74	12.20
8952.0	0.0	0.5	100		26	51.72	12.20
8953.0	0.0	0.1	100		40	51.72	12.20
8956.0	0.0	0.0	100		43	51.72	12.20
8957.0	0.0	0.9	100		31	51.72	12.20
8958.0	0.0	0.0	100		36	51.71	12.20
8959.0	0.0	0.0	100		36	51.71	12.20
8960.0	0.0	0.0	100		40	51.71	12.20
8962.0	0.0	0.0	100		48	51.71	12.20
8963.0	0.0	0.1	100		38	51.71	12.20
8964.0	0.0	1.1	100		31	51.71	12.20
8965.0	0.0	1.6	100		24	51.70	12.20
8966.0	0.0	1.8	100		21	51.68	12.20
8967.0	0.0	1.6	100		29	51.66	12.20
8968.0	0.0	0.0	100		49	51.65	12.20
8980.0	0.0	0.0	100		41	51.65	12.20
8981.0	0.0	0.5	100		33	51.65	12.20
8982.0	0.0	0.6	100		25	51.63	12.19
8983.0	0.0	0.0	100		30	51.63	12.19
8984.0	0.0	0.0	100		38	51.63	12.19
8990.0	0.0	2.0	100		27	51.63	12.19
8991.0	0.0	2.4	100		26	51.60	12.19
8992.0	0.0	0.0	100		41	51.58	12.19
9005.0	0.0	0.0	100		46	51.58	12.19
9008.0	0.0	0.0	100		46	51.58	12.19
9009.0	0.0	0.0	100		42	51.58	12.19
9013.0	0.0	0.0	100		44	51.58	12.19
9014.0	0.0	0.0	100		39	51.58	12.19
9015.0	0.0	0.0	100		37	51.58	12.19
9016.0	0.0	0.2	100		35	51.58	12.19
9017.0	0.0	0.1	100		36	51.58	12.19
9018.0	0.0	0.3	100		34	51.57	12.19

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9019.0	0.0	0.7	100		31	51.57	12.19
9020.0	0.0	0.3	100		34	51.56	12.19
9021.0	0.0	0.0	100		36	51.56	12.19
9022.0	0.0	0.0	100		46	51.56	12.19
9025.0	0.0	0.0	100		45	51.56	12.19
9026.0	0.0	0.0	100		48	51.56	12.19
9028.0	0.0	0.0	100		49	51.56	12.19
9029.0	0.0	0.1	100		44	51.56	12.19
9030.0	0.0	0.1	100		37	51.56	12.19
9031.0	0.0	1.1	100		30	51.56	12.19
9032.0	0.0	0.4	100		34	51.55	12.19
9033.0	0.0	0.1	100		41	51.54	12.19
9034.0	0.0	0.0	100		46	51.54	12.19
9035.0	0.0	0.2	100		38	51.54	12.19
9036.0	0.0	1.4	100		23	51.54	12.19
9037.0	0.0	1.2	100		20	51.52	12.19
9038.0	0.0	0.5	100		26	51.51	12.19
9039.0	0.0	0.0	100		36	51.51	12.19
9040.0	0.0	0.0	100		50	51.51	12.19
9056.0	0.0	0.0	100		43	51.51	12.19
9057.0	0.0	0.0	100		36	51.51	12.19
9058.0	0.4	5.5	24		18	51.47	12.16
9059.0	0.0	0.9	100		24	51.43	12.14
9060.0	0.0	0.0	100		27	51.43	12.14
9061.0	0.0	0.2	100		25	51.42	12.14
9062.0	0.0	1.1	100		19	51.42	12.14
9063.0	0.0	0.8	100		20	51.41	12.14
9064.0	0.0	0.6	100		23	51.40	12.14
9065.0	0.0	1.4	100		22	51.39	12.14
9066.0	0.0	1.5	100		21	51.38	12.14
9067.0	0.0	1.2	100		23	51.36	12.14
9068.0	0.0	1.0	100		23	51.35	12.14
9069.0	0.0	1.4	100		18	51.34	12.14
9070.0	0.0	1.7	100		15	51.33	12.14
9071.0	0.0	2.7	100		12	51.31	12.14
9072.0	0.0	3.5	100		10	51.28	12.14
9073.0	0.0	4.2	93		9	51.24	12.14
9074.0	0.0	4.4	90		10	51.20	12.13
9075.0	0.0	4.1	96		11	51.16	12.13
9076.0	0.0	4.5	90		9	51.12	12.13
9077.0	0.0	4.7	83		9	51.07	12.12
9078.0	0.0	4.3	89		9	51.02	12.12
9079.0	0.0	3.0	100		13	50.98	12.11
9080.0	0.0	2.3	100		15	50.96	12.11
9081.0	0.0	2.1	100		17	50.93	12.11

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9082.0	0.0	1.6	100		19	50.91	12.11
9083.0	0.0	2.9	100		16	50.90	12.11
9084.0	0.0	4.1	100		21	50.86	12.11
9085.0	0.0	0.0	100		44	50.84	12.11
9086.0	0.0	0.0	100		46	50.84	12.11
9087.0	0.0	0.0	100		42	50.84	12.11
9088.0	0.0	0.0	100		37	50.84	12.11
9089.0	0.0	0.0	100		46	50.84	12.11
9097.0	0.0	0.0	100		42	50.84	12.11
9098.0	0.0	0.1	100		37	50.84	12.11
9099.0	0.0	0.9	100		32	50.84	12.11
9100.0	0.0	0.1	100		24	50.83	12.11
9101.0	0.0	0.0	100		25	50.83	12.11
9102.0	0.0	0.0	100		37	50.83	12.11
9109.0	0.0	0.0	100		50	50.83	12.11
9110.0	0.0	0.0	100		48	50.83	12.11
9111.0	0.0	0.0	100		50	50.83	12.11
9112.0	0.0	0.0	100		48	50.83	12.11
9113.0	0.0	0.0	100		43	50.83	12.11
9114.0	0.0	0.0	100		44	50.83	12.11
9115.0	0.0	0.0	100		49	50.83	12.11
9118.0	0.0	0.0	100		42	50.83	12.11
9119.0	0.0	0.1	100		36	50.83	12.11
9120.0	0.0	0.1	100		38	50.83	12.11
9121.0	0.0	0.0	100		45	50.83	12.11
9128.0	0.0	0.0	100		49	50.83	12.11
9129.0	0.0	0.0	100		46	50.83	12.11
9130.0	0.0	0.0	100		47	50.83	12.11
9135.0	0.0	0.4	100		36	50.82	12.11
9136.0	0.0	3.3	99		21	50.81	12.11
9137.0	0.1	5.7	61		15	50.77	12.10
9138.0	0.0	0.0	100		36	50.71	12.08
9139.0	0.0	0.0	100		42	50.71	12.08
9140.0	0.0	0.0	100		46	50.71	12.08
9146.0	0.0	0.0	100		49	50.71	12.08
9147.0	0.0	0.0	100		42	50.71	12.08
9148.0	0.0	0.0	100		45	50.71	12.08
9149.0	0.0	0.0	100		47	50.71	12.08
9152.0	0.0	0.0	100		47	50.71	12.08
9153.0	0.0	0.0	100		48	50.71	12.08
9156.0	0.0	0.0	100		45	50.71	12.08

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9157.0	0.0	0.0	100		40	50.71	12.08
9158.0	0.0	0.0	100		42	50.71	12.08
9159.0	0.0	0.0	100		48	50.71	12.08
9160.0	0.0	0.0	100		49	50.71	12.08
9162.0	0.0	0.0	100		50	50.71	12.08
9163.0	0.0	0.0	100		46	50.71	12.08
9164.0	0.0	0.0	100		44	50.71	12.08
9165.0	0.0	0.0	100		37	50.71	12.08
9166.0	0.0	2.5	100		20	50.70	12.08
9167.0	0.0	2.7	100		21	50.67	12.08
9168.0	0.0	0.1	100		42	50.65	12.08
9174.0	0.0	0.0	100		42	50.65	12.08
9175.0	0.0	3.7	100		22	50.65	12.08
9176.0	0.0	0.1	100		39	50.62	12.08
9179.0	0.0	0.0	100		37	50.62	12.08
9180.0	0.0	0.0	100		35	50.62	12.08
9181.0	0.0	0.0	100		45	50.62	12.08
9184.0	0.0	0.0	100		48	50.62	12.08
9185.0	0.0	0.0	100		36	50.62	12.08
9186.0	0.0	0.0	100		36	50.62	12.08
9187.0	0.0	0.0	100		41	50.62	12.08
9188.0	0.0	0.0	100		41	50.62	12.08
9189.0	0.0	0.0	100		41	50.62	12.08
9190.0	0.0	0.0	100		41	50.62	12.08
9191.0	0.0	0.0	100		43	50.62	12.08
9192.0	0.0	0.0	100		44	50.62	12.08
9193.0	0.0	0.0	100		43	50.62	12.08
9194.0	0.0	0.0	100		42	50.62	12.08
9195.0	0.0	0.0	100		41	50.62	12.08
9196.0	0.0	0.5	100		34	50.62	12.08
9197.0	0.0	3.5	100		22	50.60	12.08
9198.0	0.0	3.9	100		15	50.56	12.08
9199.0	0.0	4.3	97		14	50.52	12.08
9200.0	0.0	4.1	87		15	50.48	12.08
9201.0	0.0	3.6	100		15	50.44	12.07
9202.0	0.0	3.1	100		22	50.41	12.07
9203.0	0.0	1.2	100		30	50.38	12.07
9204.0	0.0	0.0	100		45	50.37	12.07
9205.0	0.0	0.0	100		48	50.37	12.07
9206.0	0.0	0.0	100		45	50.37	12.07
9207.0	0.0	0.0	100		47	50.37	12.07
9208.0	0.0	0.0	100		47	50.37	12.07
9209.0	0.0	0.0	100		43	50.37	12.07
9210.0	0.0	0.0	100		41	50.37	12.07

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9211.0	0.0	0.0	100		49	50.37	12.07
9212.0	0.0	0.0	100		49	50.37	12.07
9215.0	0.0	0.0	100		47	50.37	12.07
9220.0	0.0	0.0	100		43	50.37	12.07
9221.0	0.0	0.0	100		41	50.37	12.07
9222.0	0.0	0.0	100		46	50.37	12.07
9224.0	0.0	0.0	100		49	50.37	12.07
9225.0	0.0	0.0	100		47	50.37	12.07
9226.0	0.0	0.0	100		47	50.37	12.07
9227.0	0.0	0.0	100		47	50.37	12.07
9228.0	0.0	0.0	100		45	50.37	12.07
9229.0	0.0	0.1	100		45	50.37	12.07
9230.0	0.0	0.0	100		44	50.37	12.07
9231.0	0.0	0.0	100		45	50.37	12.07
9232.0	0.0	0.0	100		47	50.37	12.07
9237.0	0.0	0.0	100		47	50.37	12.07
9238.0	0.0	0.0	100		44	50.37	12.07
9239.0	0.0	0.3	100		38	50.37	12.07
9240.0	0.0	0.0	100		38	50.37	12.07
9241.0	0.0	0.0	100		42	50.37	12.07
9242.0	0.0	0.0	100		46	50.37	12.07
9243.0	0.0	0.1	100		41	50.37	12.07
9244.0	0.0	0.4	100		35	50.36	12.07
9245.0	0.0	0.0	100		45	50.36	12.07
9246.0	0.0	0.1	100		41	50.36	12.07
9247.0	0.0	0.0	100		39	50.36	12.07
9253.0	0.0	0.0	100		44	50.36	12.07
9254.0	0.0	2.6	100		25	50.36	12.07
9255.0	0.0	4.3	100		19	50.32	12.07
9256.0	0.0	2.3	100		26	50.29	12.07
9257.0	0.0	0.7	100		34	50.26	12.07
9263.0	0.0	0.0	100		44	50.26	12.07
9264.0	0.0	0.0	100		46	50.26	12.07
9266.0	0.0	0.0	100		50	50.26	12.07
9267.0	0.0	0.0	100		48	50.26	12.07
9268.0	0.0	0.0	100		48	50.26	12.07
9269.0	0.0	0.0	100		46	50.26	12.07
9270.0	0.0	0.0	100		39	50.26	12.07
9271.0	0.0	0.0	100		38	50.26	12.07
9272.0	0.0	0.0	100		37	50.26	12.07
9273.0	0.0	0.2	100		35	50.26	12.07

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9274.0	0.0	3.0	100		24	50.24	12.07
9275.0	0.0	3.8	100		22	50.21	12.07
9276.0	0.0	4.9	80		19	50.17	12.07
9277.0	0.0	4.8	90		19	50.12	12.06
9278.0	0.0	5.8	83		14	50.07	12.05
9279.0	0.0	7.5	68		10	50.01	12.04
9280.0	0.2	7.6	65		9	49.93	12.02
9281.0	0.2	6.9	63		11	49.86	11.99
9282.0	0.1	5.6	66		14	49.79	11.96
9283.0	0.0	4.4	81		15	49.74	11.95
9284.0	0.0	4.3	76		15	49.69	11.94
9285.0	0.0	4.5	77		15	49.65	11.93
9286.0	0.0	4.5	80		15	49.61	11.92
9287.0	0.0	4.4	87		14	49.56	11.91
9288.0	0.0	4.4	84		14	49.52	11.91
9289.0	0.0	4.7	72		13	49.47	11.90
9290.0	0.0	4.4	96		13	49.43	11.88
9291.0	0.0	5.1	59		14	49.38	11.88
9292.0	0.3	6.8	45		17	49.33	11.86
9293.0	0.2	6.3	50		15	49.26	11.82
9294.0	0.0	5.0	68		12	49.20	11.79
9295.0	0.0	5.0	74		9	49.15	11.78
9296.0	0.0	5.3	70		10	49.10	11.76
9297.0	0.0	5.0	75		11	49.05	11.75
9298.0	0.0	5.4	74		10	49.00	11.74
9299.0	0.0	5.7	69		11	48.94	11.72
9300.0	0.1	5.7	64		15	48.88	11.70
9301.0	0.0	5.5	72		15	48.83	11.68
9302.0	0.0	5.1	92		19	48.77	11.67
9303.0	0.0	0.0	100		40	48.74	11.67
9304.0	0.0	0.0	100		43	48.74	11.67
9305.0	0.0	0.0	100		43	48.74	11.67
9306.0	0.0	0.0	100		44	48.74	11.67
9307.0	0.0	0.0	100		49	48.74	11.67
9310.0	0.0	0.0	100		43	48.74	11.67
9311.0	0.0	0.0	100		41	48.74	11.67
9340.0	0.0	0.0	100		44	48.74	11.67
9341.0	0.0	0.1	100		36	48.74	11.67
9342.0	0.1	5.1	41		21	48.71	11.65
9343.0	0.0	0.0	100		41	48.67	11.63
9352.0	0.0	0.0	100		40	48.67	11.63
9353.0	0.0	0.0	100		36	48.67	11.63
9354.0	0.0	0.0	100		39	48.67	11.63
9355.0	0.0	0.0	100		45	48.67	11.63
9359.0	0.0	0.0	100		49	48.67	11.63

chlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9360.0	0.0	0.0	100		44	48.67	11.63
9361.0	0.0	0.0	100		48	48.67	11.63
9363.0	0.0	0.0	100		46	48.67	11.63
9384.0	0.0	0.0	100		48	48.67	11.63
9385.0	0.0	0.0	100		49	48.67	11.63
9387.0	0.0	0.0	100		46	48.67	11.63
9388.0	0.0	0.3	100		38	48.67	11.63
9389.0	0.0	0.0	100		37	48.67	11.63
9390.0	0.0	0.0	100		38	48.67	11.63
9391.0	0.0	0.0	100		45	48.67	11.63

Schlumberger

```
ISS =  2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
       0 2 0 1 0 0 0 0  0  0  0  0  0  0  0  0  1  0  0  0  0

INPUT PARAMETERS FROM 11450. TO  9400.

 WMUD XLIT BITSZ  BHT BHTDEP SUFT   RMF RMFT ROMFS PHIMFS DASIL
  9.2 0.50  7.88 187. 12400.  60.  2.31  58. 1.005  0.994 0.600

  SPCK  DSPCK RODC DELRGM START STOPLG ZSPNL  BGN ZSPDL   REC  RESH CSS
    0.      0. 2.84  0.20 12360. 3020. 0.020 1.00 0.000 20.00  1.00 0.2

  WHY PHILEV  BR SLIM    AK   PK  SK STOPIN PHIMAX PHINCL PHIDCL
 .200  0.000 .10 0.30 62500. 6.0 2.0  9400.  0.075  0.250 -0.010

 PHINSO  RTPM  PUN  DAX DALIM DAGA DASH DTSD DTSH  CP  PSSH
  0.090  169. .015  76.   30.  20.  96. 150. 150. 0.90 .200

 EDIAM  PNLIM  PDLIM   RLIM  GRLIM VARMC  CONST  ROP VARLIM   CSF
  0.00   1.00   1.00 1000.0 1000.0  0.07  0.333  0.31  0.20  0.10

SP STATISTICS OVER ENTIRE INTERVAL


RESISTIVITY STATISTICS OVER ENTIRE INTERVAL


GAMMA - RAY STATISTICS OVER ENTIRE INTERVAL


SONIC STATISTICS OVER ENTIRE INTERVAL

GAMMARAY NOT USED IN CORRECTION OF DOUBTFUL POROSITY DATA
ANALYSIS BY QUASIP MODEL
PERMEABILITY BY TIMUR EQUATION
SP COEFF. FROM STATISTICS
GR COEFF. FROM STATISTICS
SONIC COEFF. FROM STATISTICS
WASAMP ROUTINE USED
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Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9408.0	0.0	0.1	100		47	48.67	11.63
9409.0	0.0	0.0	100		43	48.67	11.63
9410.0	0.0	0.0	100		43	48.67	11.63
9411.0	0.0	0.0	100		45	48.67	11.63
9412.0	0.0	0.0	100		37	48.67	11.63
9413.0	0.0	0.4	100		34	48.67	11.63
9414.0	0.0	0.5	100		33	48.67	11.63
9415.0	0.0	0.0	100		46	48.66	11.63
9423.0	0.0	0.1	100		27	48.66	11.63
9424.0	0.0	1.0	100		24	48.65	11.63
9425.0	0.0	0.0	100		41	48.65	11.63
9431.0	0.0	0.0	100		44	48.65	11.63
9432.0	0.0	0.0	100		36	48.65	11.63
9433.0	0.0	0.0	100		41	48.65	11.63
9434.0	0.0	0.0	100		40	48.65	11.63
9435.0	0.0	0.0	100		44	48.65	11.63
9436.0	0.0	0.0	100		49	48.65	11.63
9437.0	0.0	0.0	100		46	48.65	11.63
9438.0	0.0	0.0	100		50	48.65	11.63
9448.0	0.0	0.0	100		48	48.65	11.63
9455.0	0.0	0.0	100		48	48.65	11.63
9456.0	0.0	0.0	100		47	48.65	11.63
9457.0	0.0	0.0	100		49	48.65	11.63
9458.0	0.0	0.0	100		50	48.65	11.63
9459.0	0.0	0.0	100		48	48.65	11.63
9462.0	0.0	0.0	100		46	48.65	11.63
9463.0	0.0	0.0	100		47	48.65	11.63
9467.0	0.0	0.0	100		40	48.65	11.63
9468.0	0.0	0.0	100		46	48.65	11.63
9472.0	0.0	0.0	100		40	48.65	11.63
9473.0	0.0	0.0	100		42	48.65	11.63
9474.0	0.0	0.0	100		48	48.65	11.63
9482.0	0.0	0.0	100		47	48.65	11.63
9483.0	0.0	0.0	100		42	48.65	11.63
9484.0	0.0	0.0	100		36	48.65	11.63
9485.0	0.0	0.0	100		35	48.65	11.63
9486.0	0.0	0.0	100		40	48.65	11.63
9493.0	0.0	1.2	100		12	48.65	11.63
9494.0	0.0	2.8	100		8	48.62	11.63

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9495.0	0.0	4.0	80		7	48.59	11.63
9496.0	0.0	4.4	96		7	48.55	11.62
9497.0	0.0	4.8	97		9	48.51	11.62
9498.0	0.0	5.3	86		10	48.46	11.62
9499.0	0.0	4.6	90		15	48.41	11.61
9500.0	0.0	3.3	100		18	48.36	11.61
9501.0	0.0	1.9	100		20	48.33	11.61
9502.0	0.0	0.8	100		23	48.32	11.61
9503.0	0.0	0.3	100		26	48.31	11.61
9504.0	0.0	0.9	100		25	48.31	11.61
9505.0	0.0	1.2	100		21	48.30	11.61
9506.0	0.0	1.7	100		14	48.28	11.61
9507.0	0.0	2.4	100		11	48.27	11.61
9508.0	0.0	3.7	100		8	48.24	11.61
9509.0	0.0	4.5	100		6	48.20	11.61
9510.0	0.0	5.0	100		6	48.16	11.61
9511.0	0.0	5.2	100		5	48.10	11.61
9512.0	0.0	5.1	100		6	48.05	11.61
9513.0	0.0	5.5	95		6	48.00	11.61
9514.0	0.0	5.9	71		8	47.95	11.60
9515.0	0.0	5.0	67		11	47.89	11.58
9516.0	0.0	4.0	70		15	47.84	11.57
9517.0	0.0	3.2	79		16	47.80	11.56
9518.0	0.0	2.4	96		16	47.78	11.55
9519.0	0.0	2.8	99		14	47.75	11.55
9520.0	0.0	3.1	99		15	47.72	11.55
9521.0	0.0	3.3	98		17	47.69	11.55
9522.0	0.0	3.2	100		11	47.66	11.55
9523.0	0.0	3.0	100		9	47.63	11.55
9524.0	0.0	4.1	97		7	47.59	11.55
9525.0	0.0	4.7	77		6	47.55	11.55
9526.0	0.0	4.7	70		8	47.50	11.53
9527.0	0.0	3.8	85		11	47.46	11.52
9528.0	0.0	3.2	92		14	47.42	11.52
9529.0	0.0	3.2	91		14	47.39	11.51
9530.0	0.0	2.1	100		14	47.36	11.51
9531.0	0.0	1.3	100		14	47.34	11.51
9532.0	0.0	1.7	100		16	47.33	11.51
9533.0	0.0	2.1	100		25	47.31	11.51
9534.0	0.0	0.0	100		43	47.30	11.51
9537.0	0.0	0.0	100		47	47.30	11.51
9538.0	0.0	0.2	100		27	47.30	11.51
9539.0	0.0	3.3	100		12	47.28	11.51
9540.0	0.0	3.1	100		8	47.25	11.51
9541.0	0.0	3.1	100		9	47.22	11.51
9542.0	0.0	2.7	100		12	47.19	11.51
9543.0	0.0	2.2	98		12	47.16	11.51

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9544.0	0.0	1.8	100		14	47.14	11.51
9545.0	0.0	1.9	100		20	47.12	11.51
9546.0	0.0	2.5	100		25	47.10	11.51
9547.0	0.0	0.0	100		45	47.09	11.51
9560.0	0.0	0.0	100		49	47.09	11.51
9561.0	0.0	1.6	100		28	47.09	11.51
9562.0	0.0	0.0	100		38	47.07	11.51
9563.0	0.0	0.0	100		40	47.07	11.51
9564.0	0.0	0.0	100		41	47.07	11.51
9565.0	0.0	0.0	100		42	47.07	11.51
9566.0	0.0	0.0	100		35	47.07	11.51
9567.0	0.0	0.0	100		30	47.07	11.51
9568.0	0.0	0.1	100		25	47.07	11.51
9569.0	0.0	5.9	100		3	47.07	11.51
9570.0	0.0	0.3	100		24	47.00	11.51
9571.0	0.0	0.0	100		36	47.00	11.51
9572.0	0.0	0.0	100		48	47.00	11.51
9579.0	0.0	0.0	100		48	47.00	11.51
9580.0	0.0	0.0	100		49	47.00	11.51
9586.0	0.0	0.0	100		50	47.00	11.51
9587.0	0.0	0.0	100		28	47.00	11.51
9588.0	0.0	0.5	100		25	47.00	11.51
9589.0	0.0	0.7	100		22	46.99	11.51
9590.0	0.0	0.4	100		20	46.99	11.51
9591.0	0.0	0.1	100		19	46.98	11.51
9592.0	0.0	0.0	100		20	46.98	11.51
9593.0	0.0	0.3	100		17	46.98	11.51
9594.0	0.0	0.5	100		14	46.98	11.51
9595.0	0.0	0.5	100		14	46.97	11.51
9596.0	0.0	0.6	100		15	46.97	11.51
9597.0	0.0	0.4	100		14	46.96	11.51
9598.0	0.0	0.6	100		15	46.96	11.51
9599.0	0.0	0.9	100		15	46.95	11.51
9600.0	0.0	0.6	100		15	46.94	11.51
9601.0	0.0	0.7	100		15	46.94	11.51
9602.0	0.0	0.9	100		15	46.93	11.51
9603.0	0.0	0.7	100		15	46.92	11.51
9604.0	0.0	0.0	100		17	46.91	11.51
9605.0	0.0	0.1	100		31	46.91	11.51
9609.0	0.0	0.0	100		50	46.91	11.51
9610.0	0.0	0.0	100		39	46.91	11.51
9611.0	0.0	0.0	100		48	46.91	11.51
9619.0	0.0	0.0	100		37	46.91	11.51

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9620.0	0.0	0.0	100		43	46.91	11.51
9621.0	0.0	0.0	100		47	46.91	11.51
9626.0	0.0	0.0	100		26	46.91	11.51
9627.0	0.0	0.0	100		13	46.91	11.51
9628.0	0.0	0.3	100		11	46.91	11.51
9629.0	0.0	0.9	100		11	46.91	11.51
9630.0	0.0	1.1	100		12	46.90	11.51
9631.0	0.0	1.2	100		13	46.89	11.51
9632.0	0.0	1.3	100		13	46.87	11.51
9633.0	0.0	1.4	100		14	46.86	11.51
9634.0	0.0	1.3	100		16	46.85	11.51
9635.0	0.0	1.2	100		19	46.83	11.51
9636.0	0.0	0.0	100		39	46.82	11.51
9637.0	0.0	0.0	100		46	46.82	11.51
9638.0	0.0	0.0	100		22	46.82	11.51
9639.0	0.0	0.1	100		14	46.82	11.51
9640.0	0.0	0.2	100		20	46.82	11.51
9641.0	0.0	0.0	100		48	46.82	11.51
9657.0	0.0	0.0	100		39	46.82	11.51
9658.0	0.0	0.0	100		39	46.82	11.51
9659.0	0.0	0.0	100		49	46.82	11.51
9665.0	0.0	0.4	100		20	46.82	11.51
9666.0	0.0	1.9	100		19	46.81	11.51
9667.0	0.0	3.9	100		16	46.79	11.51
9668.0	0.0	4.3	100		17	46.75	11.51
9669.0	0.0	3.4	100		20	46.71	11.51
9670.0	0.0	0.7	100		28	46.68	11.51
9671.0	0.0	0.7	100		30	46.67	11.51
9672.0	0.0	0.8	100		20	46.66	11.51
9673.0	0.0	0.5	100		17	46.66	11.51
9674.0	0.0	0.3	100		19	46.65	11.51
9675.0	0.0	0.1	100		16	46.65	11.51
9676.0	0.0	0.0	100		15	46.65	11.51
9677.0	0.0	0.0	100		14	46.65	11.51
9678.0	0.0	0.1	100		13	46.65	11.51
9679.0	0.0	0.2	100		12	46.65	11.51
9680.0	0.0	0.1	100		12	46.64	11.51
9681.0	0.0	0.4	100		14	46.64	11.51
9682.0	0.0	1.2	100		17	46.64	11.51
9683.0	0.0	2.4	100		17	46.62	11.51
9684.0	0.0	4.9	100		15	46.59	11.51
9685.0	0.0	3.0	100		19	46.54	11.51
9686.0	0.0	0.0	100		37	46.52	11.51
9687.0	0.0	0.0	100		45	46.52	11.51
9688.0	0.0	0.0	100		45	46.52	11.51

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9689.0	0.0	1.0	100		25	46.52	11.51
9690.0	0.0	1.5	100		14	46.51	11.51
9691.0	0.0	1.5	100		17	46.50	11.51
9692.0	0.0	0.9	100		31	46.48	11.51
9693.0	0.0	1.3	100		27	46.48	11.51
9694.0	0.0	3.1	100		22	46.46	11.51
9695.0	0.0	3.3	100		18	46.43	11.51
9696.0	0.0	1.9	100		21	46.39	11.51
9697.0	0.0	0.1	100		36	46.38	11.51
9698.0	0.0	0.0	100		40	46.38	11.51
9710.0	0.0	0.0	100		47	46.38	11.51
9711.0	0.0	0.0	100		49	46.38	11.51
9713.0	0.0	0.0	100		49	46.38	11.51
9724.0	0.0	0.0	100		49	46.38	11.51
9725.0	0.0	0.0	100		36	46.38	11.51
9726.0	0.0	0.5	100		24	46.38	11.51
9727.0	0.0	0.8	100		17	46.37	11.51
9728.0	0.0	1.1	100		14	46.36	11.51
9729.0	0.0	1.2	100		15	46.35	11.51
9730.0	0.0	1.4	100		15	46.34	11.51
9731.0	0.0	1.2	100		15	46.33	11.51
9732.0	0.0	1.0	100		13	46.32	11.51
9733.0	0.0	1.4	100		13	46.31	11.51
9734.0	0.0	2.6	100		10	46.29	11.51
9735.0	0.0	3.5	100		10	46.26	11.51
9736.0	0.0	2.1	100		11	46.23	11.51
9737.0	0.0	0.8	100		14	46.21	11.51
9738.0	0.0	0.9	100		16	46.21	11.51
9739.0	0.0	1.7	100		13	46.20	11.51
9740.0	0.0	2.0	100		14	46.18	11.51
9741.0	0.0	1.7	100		13	46.16	11.51
9742.0	0.0	1.1	100		19	46.14	11.51
9743.0	0.0	0.0	100		47	46.14	11.51
9751.0	0.0	0.0	100		43	46.14	11.51
9752.0	0.0	0.3	100		37	46.14	11.51
9753.0	0.0	0.5	100		35	46.13	11.51
9754.0	0.0	0.0	100		45	46.13	11.51
9767.0	0.0	0.0	100		43	46.13	11.51
9768.0	0.0	0.0	100		48	46.13	11.51
9777.0	0.0	0.0	100		44	46.13	11.51
9778.0	0.0	0.0	100		38	46.13	11.51
9785.0	0.0	0.0	100		49	46.13	11.51

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9792.0	0.0	0.0	100		43	46.13	11.51
9793.0	0.0	0.0	100		39	46.13	11.51
9797.0	0.0	0.0	100		47	46.13	11.51
9798.0	0.0	0.0	100		42	46.13	11.51
9799.0	0.0	0.0	100		42	46.13	11.51
9800.0	0.0	0.0	100		44	46.13	11.51
9805.0	0.0	0.0	100		49	46.13	11.51
9818.0	0.0	0.0	100		46	46.13	11.51
9819.0	0.0	0.5	100		23	46.13	11.51
9820.0	0.0	1.8	100		17	46.12	11.51
9821.0	0.0	1.2	100		20	46.10	11.51
9822.0	0.0	1.2	100		16	46.09	11.51
9823.0	0.0	1.7	100		16	46.08	11.51
9824.0	0.0	2.0	100		22	46.06	11.51
9825.0	0.0	1.5	100		20	46.04	11.51
9826.0	0.0	3.1	100		15	46.02	11.51
9827.0	0.0	4.0	100		16	45.99	11.51
9828.0	0.0	0.3	100		34	45.95	11.51
9829.0	0.0	0.0	100		36	45.95	11.51
9830.0	0.0	0.7	100		21	45.95	11.51
9831.0	0.0	1.0	100		17	45.94	11.51
9832.0	0.0	0.2	100		20	45.93	11.51
9833.0	0.0	0.0	100		47	45.93	11.51
9838.0	0.0	1.1	100		18	45.93	11.51
9839.0	0.0	2.9	100		14	45.92	11.51
9840.0	0.0	3.1	100		13	45.89	11.51
9841.0	0.0	3.6	100		13	45.86	11.51
9842.0	0.0	4.1	100		11	45.82	11.51
9843.0	0.0	3.8	100		11	45.78	11.51
9844.0	0.0	3.1	100		12	45.74	11.51
9845.0	0.0	3.1	100		12	45.71	11.51
9846.0	0.0	3.9	65		15	45.68	11.51
9847.0	0.0	3.6	99		20	45.64	11.49
9848.0	0.0	0.0	100		39	45.62	11.49
9849.0	0.0	0.0	100		44	45.62	11.49
9855.0	0.0	0.0	100		48	45.62	11.49
9856.0	0.0	0.0	100		41	45.62	11.49
9857.0	0.0	0.0	100		37	45.62	11.49
9863.0	0.0	0.0	100		46	45.62	11.49
9867.0	0.0	0.0	100		45	45.62	11.49

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9885.0	0.0	0.0	100		46	45.62	11.49
9886.0	0.0	0.0	100		43	45.62	11.49
9887.0	0.0	0.0	100		42	45.62	11.49
9888.0	0.0	0.0	100		48	45.62	11.49
9898.0	0.0	0.0	100		42	45.62	11.49
9899.0	0.0	1.0	100		20	45.62	11.49
9900.0	0.0	1.3	100		20	45.61	11.49
9901.0	0.0	0.0	100		36	45.59	11.49
9902.0	0.0	0.0	100		45	45.59	11.49
9903.0	0.0	0.0	100		50	45.59	11.49
9913.0	0.0	0.0	100		47	45.59	11.49
9914.0	0.0	0.0	100		46	45.59	11.49
9915.0	0.0	0.0	100		43	45.59	11.49
9916.0	0.0	0.0	100		41	45.59	11.49
9917.0	0.0	0.0	100		46	45.59	11.49
9929.0	0.0	0.0	100		47	45.59	11.49
9930.0	0.0	0.0	100		39	45.59	11.49
9931.0	0.0	0.0	100		41	45.59	11.49
9950.0	0.0	0.0	100		46	45.59	11.49
9951.0	0.0	0.0	100		48	45.59	11.49
9952.0	0.0	0.0	100		48	45.59	11.49
9953.0	0.0	0.0	100		45	45.59	11.49
9954.0	0.0	0.0	100		37	45.59	11.49
9955.0	0.0	0.0	100		38	45.59	11.49
9956.0	0.0	0.0	100		44	45.59	11.49
9959.0	0.0	0.0	100		48	45.59	11.49
9960.0	0.0	0.0	100		41	45.59	11.49
9961.0	0.0	0.0	100		48	45.59	11.49
9963.0	0.0	0.0	100		44	45.59	11.49
9964.0	0.0	0.0	100		41	45.59	11.49
9965.0	0.0	0.0	100		40	45.59	11.49
9966.0	0.0	0.0	100		44	45.59	11.49
9969.0	0.0	0.0	100		48	45.59	11.49
9970.0	0.0	0.0	100		50	45.59	11.49
9980.0	0.0	0.0	100		49	45.59	11.49
9996.0	0.0	0.0	100		37	45.59	11.49
9997.0	0.0	0.3	100		34	45.59	11.49
9998.0	0.0	1.5	100		18	45.59	11.49

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
9999.0	0.0	1.2	100		22	45.57	11.49
10000.0	0.0	0.0	100		42	45.57	11.49
10005.0	0.0	0.0	100		44	45.57	11.49
10006.0	0.0	0.0	100		49	45.57	11.49
10016.0	0.0	0.0	100		48	45.57	11.49
10023.0	0.0	0.0	100		47	45.56	11.49
10024.0	0.0	0.0	100		49	45.56	11.49
10031.0	0.0	0.0	100		45	45.56	11.49
10032.0	0.0	0.0	100		48	45.56	11.49
10033.0	0.0	0.0	100		48	45.56	11.49
10034.0	0.0	0.0	100		38	45.56	11.49
10035.0	0.0	1.1	100		30	45.56	11.49
10036.0	0.0	0.1	100		39	45.55	11.49
10037.0	0.0	0.0	100		44	45.55	11.49
10038.0	0.0	0.0	100		47	45.55	11.49
10041.0	0.0	0.0	100		49	45.55	11.49
10042.0	0.0	0.2	100		41	45.55	11.49
10043.0	0.0	0.2	100		37	45.55	11.49
10044.0	0.0	0.4	100		35	45.54	11.49
10045.0	0.0	0.0	100		44	45.54	11.49
10046.0	0.0	0.0	100		47	45.54	11.49
10047.0	0.0	0.0	100		49	45.54	11.49
10049.0	0.0	0.0	100		47	45.54	11.49
10050.0	0.0	0.0	100		43	45.54	11.49
10051.0	0.0	0.0	100		42	45.54	11.49
10068.0	0.0	0.0	100		46	45.54	11.49
10069.0	0.0	1.1	100		24	45.54	11.49
10070.0	0.0	0.8	100		31	45.53	11.49
10071.0	0.0	1.8	100		16	45.52	11.49
10072.0	0.0	2.1	100		11	45.50	11.49
10073.0	0.0	2.2	100		11	45.48	11.49
10074.0	0.0	2.0	100		9	45.46	11.49
10075.0	0.0	4.6	100		8	45.44	11.49
10076.0	0.0	5.7	100		8	45.38	11.49
10077.0	0.0	6.3	100		8	45.33	11.49
10078.0	0.0	5.4	100		9	45.26	11.49
10079.0	0.0	2.7	100		11	45.22	11.49
10080.0	0.0	2.5	100		14	45.20	11.49
10081.0	0.0	2.6	100		8	45.17	11.49
10082.0	0.0	3.9	100		7	45.14	11.49
10083.0	0.0	4.7	100		6	45.10	11.49

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10084.0	0.0	6.1	100		8	45.05	11.49
10085.0	0.0	5.9	100		11	44.99	11.49
10086.0	0.0	4.2	100		18	44.94	11.49
10087.0	0.0	3.1	100		19	44.90	11.49
10088.0	0.0	4.6	100		14	44.86	11.49
10089.0	0.0	5.2	100		11	44.82	11.49
10090.0	0.0	4.2	100		13	44.77	11.49
10091.0	0.0	3.6	100		13	44.73	11.49
10092.0	0.0	3.3	100		15	44.69	11.49
10093.0	0.0	1.4	100		27	44.67	11.49
10094.0	0.0	0.0	100		39	44.66	11.49
10095.0	0.0	1.2	100		24	44.66	11.49
10096.0	0.0	1.8	100		12	44.65	11.49
10097.0	0.0	2.3	100		10	44.63	11.49
10098.0	0.0	2.4	100		11	44.60	11.49
10099.0	0.0	2.0	100		13	44.58	11.49
10100.0	0.0	2.2	100		14	44.56	11.49
10101.0	0.0	1.9	100		13	44.54	11.49
10102.0	0.0	2.0	100		14	44.52	11.49
10103.0	0.0	2.2	100		15	44.50	11.49
10104.0	0.0	1.3	100		22	44.48	11.49
10105.0	0.0	0.0	100		43	44.47	11.49
10106.0	0.0	0.0	100		49	44.47	11.49
10112.0	0.0	0.7	100		19	44.47	11.49
10113.0	0.0	1.6	100		17	44.46	11.49
10114.0	0.0	2.2	100		21	44.44	11.49
10115.0	0.0	3.1	100		21	44.42	11.49
10116.0	0.0	3.5	100		20	44.39	11.49
10117.0	0.0	3.4	100		19	44.35	11.49
10118.0	0.0	3.1	100		18	44.32	11.49
10119.0	0.0	2.3	100		16	44.29	11.49
10120.0	0.0	0.8	100		28	44.27	11.49
10121.0	0.0	0.0	100		47	44.27	11.49
10127.0	0.0	0.0	100		29	44.27	11.49
10128.0	0.0	2.4	100		25	44.27	11.49
10129.0	0.0	0.0	100		38	44.25	11.49
10130.0	0.0	0.0	100		47	44.25	11.49
10148.0	0.0	0.0	100		49	44.25	11.49
10149.0	0.0	0.0	100		45	44.25	11.49
10161.0	0.0	0.0	100		49	44.25	11.49
10162.0	0.0	0.0	100		42	44.25	11.49
10163.0	0.0	0.0	100		44	44.25	11.49
10164.0	0.0	0.0	100		49	44.25	11.49
10169.0	0.0	0.0	100		48	44.25	11.49

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10170.0	0.0	0.0	100		46	44.25	11.49
10174.0	0.0	0.0	100		45	44.25	11.49
10175.0	0.0	0.0	100		40	44.25	11.49
10176.0	0.0	0.0	100		42	44.25	11.49
10190.0	0.0	0.0	100		43	44.25	11.49
10205.0	0.0	0.0	100		47	44.25	11.49
10206.0	0.0	0.0	100		37	44.25	11.49
10207.0	0.0	0.0	100		36	44.25	11.49
10208.0	0.0	1.5	100		20	44.24	11.49
10209.0	0.0	1.9	100		18	44.23	11.49
10210.0	0.0	1.9	100		19	44.21	11.49
10211.0	0.0	1.7	100		23	44.19	11.49
10212.0	0.0	1.3	100		30	44.17	11.49
10213.0	0.0	1.6	100		21	44.16	11.49
10214.0	0.0	1.3	100		24	44.14	11.49
10215.0	0.0	0.0	100		39	44.14	11.49
10216.0	0.0	0.0	100		39	44.14	11.49
10217.0	0.0	0.0	100		41	44.14	11.49
10224.0	0.0	0.0	100		42	44.14	11.49
10235.0	0.0	0.0	100		40	44.13	11.49
10236.0	0.0	0.0	100		42	44.13	11.49
10237.0	0.0	0.0	100		41	44.13	11.49
10238.0	0.0	0.4	100		34	44.13	11.49
10239.0	0.0	1.2	100		30	44.13	11.49
10240.0	0.0	1.4	100		27	44.12	11.49
10241.0	0.0	1.8	100		19	44.10	11.49
10242.0	0.0	2.7	100		17	44.08	11.49
10243.0	0.0	3.2	100		19	44.05	11.49
10244.0	0.0	3.9	100		18	44.02	11.49
10245.0	0.0	4.5	100		17	43.98	11.49
10246.0	0.0	2.9	100		22	43.94	11.49
10247.0	0.0	0.1	100		37	43.92	11.49
10248.0	0.0	0.2	100		35	43.92	11.49
10249.0	0.0	3.6	100		22	43.91	11.49
10250.0	0.0	5.3	100		16	43.86	11.49
10251.0	0.0	4.5	100		19	43.81	11.49
10252.0	0.0	2.4	100		25	43.77	11.49
10253.0	0.0	2.1	100		19	43.75	11.49
10254.0	0.0	1.8	100		18	43.73	11.49
10255.0	0.0	1.9	100		18	43.71	11.49
10256.0	0.0	1.9	100		17	43.69	11.49
10257.0	0.0	2.3	100		16	43.67	11.49
10258.0	0.0	2.4	100		16	43.65	11.49

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10259.0	0.0	2.4	100		19	43.63	11.49
10260.0	0.0	0.3	100		40	43.61	11.49
10270.0	0.0	0.0	100		43	43.60	11.49
10271.0	0.0	0.9	100		31	43.60	11.49
10272.0	0.0	0.3	100		32	43.59	11.49
10273.0	0.0	0.5	100		33	43.59	11.49
10274.0	0.0	0.9	100		26	43.58	11.49
10275.0	0.0	5.6	75		16	43.56	11.49
10276.0	0.0	3.4	100		12	43.51	11.48
10277.0	0.1	7.6	100		0	43.47	11.48
10278.0	4	11.3	38	0.3	6	43.39	11.46
10279.0	2	10.1	42	0.2	4	43.27	11.39
10280.0	0.2	7.4	57		0	43.18	11.34
10281.0	0.0	6.0	67		2	43.11	11.31
10282.0	0.1	6.2	64		4	43.05	11.29
10283.0	0.7	8.3	45		8	42.99	11.26
10284.0	3	10.6	38		11	42.90	11.21
10285.0	0.0	4.5	100		14	42.80	11.16
10286.0	0.0	0.0	100		37	42.77	11.16
10290.0	0.0	0.0	100		47	42.77	11.16
10300.0	0.0	0.0	100		41	42.77	11.16
10301.0	0.0	0.0	100		45	42.77	11.16
10302.0	0.0	0.0	100		47	42.77	11.16
10303.0	0.0	0.0	100		37	42.77	11.16
10304.0	0.0	1.7	100		22	42.76	11.16
10305.0	0.0	2.1	100		21	42.74	11.16
10306.0	0.0	3.1	100		19	42.72	11.16
10307.0	0.0	3.8	100		16	42.69	11.16
10308.0	0.0	4.3	100		14	42.65	11.16
10309.0	0.0	4.3	100		16	42.60	11.16
10310.0	0.0	4.9	100		16	42.56	11.16
10311.0	0.0	5.1	100		16	42.51	11.16
10312.0	0.0	4.6	100		17	42.46	11.16
10313.0	0.0	4.1	100		18	42.42	11.16
10314.0	0.0	4.0	100		20	42.37	11.16
10315.0	0.0	0.0	100		38	42.34	11.16
10319.0	0.0	0.0	100		40	42.34	11.16
10320.0	0.0	0.0	100		38	42.34	11.16
10321.0	0.0	0.0	100		41	42.34	11.16
10322.0	0.0	0.0	100		49	42.34	11.16
10325.0	0.0	0.0	100		46	42.34	11.16
10326.0	0.0	0.0	100		37	42.34	11.16
10327.0	0.0	1.6	100		21	42.34	11.16

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10328.0	0.0	1.7	100		20	42.32	11.16
10329.0	0.0	1.3	100		25	42.31	11.16
10330.0	0.0	2.5	100		18	42.29	11.16
10331.0	0.0	4.4	100		16	42.26	11.16
10332.0	0.0	4.7	100		18	42.22	11.16
10333.0	0.0	3.3	100		23	42.17	11.16
10334.0	0.0	2.2	100		26	42.14	11.16
10335.0	0.0	2.9	100		24	42.12	11.16
10336.0	0.0	3.3	100		23	42.09	11.16
10337.0	0.0	2.6	100		25	42.06	11.16
10338.0	0.0	2.5	100		25	42.03	11.16
10339.0	0.0	3.6	100		18	42.00	11.16
10340.0	0.0	4.2	100		17	41.97	11.16
10341.0	0.0	4.1	100		17	41.92	11.16
10342.0	0.0	3.1	100		15	41.89	11.16
10343.0	0.0	3.3	100		13	41.86	11.16
10344.0	0.0	4.0	100		12	41.82	11.16
10345.0	0.0	4.6	100		11	41.78	11.16
10346.0	0.0	5.5	100		11	41.73	11.16
10347.0	0.0	5.2	100		13	41.68	11.16
10348.0	0.0	4.9	100		12	41.62	11.16
10349.0	0.0	5.0	100		10	41.57	11.16
10350.0	0.0	4.8	100		10	41.53	11.16
10351.0	0.0	4.7	100		11	41.48	11.16
10352.0	0.0	5.8	100		11	41.43	11.16
10353.0	0.0	6.2	100		11	41.37	11.16
10354.0	0.0	4.8	100		12	41.31	11.16
10355.0	0.0	3.9	100		14	41.26	11.16
10356.0	0.0	3.3	100		15	41.23	11.16
10357.0	0.0	2.2	100		15	41.19	11.16
10358.0	0.0	1.3	100		20	41.18	11.16
10359.0	0.0	1.7	100		26	41.16	11.16
10360.0	0.0	0.2	100		38	41.15	11.16
10374.0	0.0	0.0	100		45	41.15	11.16
10375.0	0.0	0.0	100		40	41.15	11.16
10376.0	0.0	0.0	100		38	41.15	11.16
10377.0	0.0	0.1	100		39	41.15	11.16
10378.0	0.0	0.0	100		44	41.15	11.16
10391.0	0.0	0.0	100		50	41.15	11.16
10392.0	0.0	0.0	100		45	41.15	11.16
10393.0	0.0	0.0	100		49	41.15	11.16
10423.0	0.0	0.0	100		45	41.15	11.16
10424.0	0.0	0.0	100		38	41.15	11.16
10485.0	0.0	0.0	100		50	41.14	11.16

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10486.0	0.0	0.0	100		45	41.14	11.16
10487.0	0.0	0.0	100		40	41.14	11.16
10488.0	0.0	0.0	100		40	41.14	11.16
10510.0	0.0	0.0	100		46	41.14	11.16
10511.0	0.0	0.0	100		40	41.14	11.16
10512.0	0.0	0.0	100		39	41.14	11.16
10513.0	0.0	0.1	100		39	41.14	11.16
10514.0	0.0	0.0	100		41	41.14	11.16
10515.0	0.0	0.0	100		44	41.14	11.16
10516.0	0.0	0.0	100		47	41.14	11.16
10526.0	0.0	0.0	100		48	41.14	11.16
10527.0	0.0	0.0	100		37	41.14	11.16
10528.0	0.0	4.3	100		14	41.13	11.16
10529.0	0.0	2.4	100		15	41.09	11.16
10530.0	0.0	2.8	100		14	41.06	11.16
10531.0	0.0	3.4	100		14	41.04	11.16
10532.0	0.0	4.9	100		8	41.00	11.16
10533.0	0.0	4.6	100		9	40.95	11.16
10534.0	0.0	4.4	100		10	40.90	11.16
10535.0	0.0	5.5	94		7	40.86	11.16
10536.0	0.2	7.3	66		5	40.80	11.15
10537.0	0.2	7.6	64		5	40.72	11.12
10538.0	0.3	7.9	61		6	40.65	11.09
10539.0	0.3	8.1	60		5	40.57	11.06
10540.0	0.3	7.9	61		6	40.49	11.03
10541.0	0.5	8.6	57		5	40.41	11.00
10542.0	0.3	7.9	60		8	40.32	10.96
10543.0	0.2	7.4	60		11	40.24	10.93
10544.0	0.0	6.9	100		7	40.17	10.90
10545.0	0.0	5.3	72		12	40.11	10.89
10546.0	0.0	5.0	75		13	40.06	10.88
10547.0	0.0	4.8	96		14	40.01	10.87
10548.0	0.0	2.9	100		24	39.96	10.87
10549.0	0.0	0.0	100		42	39.94	10.87
10550.0	0.0	0.0	100		45	39.94	10.87
10551.0	0.0	0.0	100		44	39.94	10.87
10552.0	0.0	0.0	100		40	39.94	10.87
10553.0	0.0	0.1	100		40	39.94	10.87
10554.0	0.0	0.1	100		41	39.94	10.87
10555.0	0.0	0.0	100		43	39.94	10.87
10556.0	0.0	0.0	100		44	39.94	10.87
10557.0	0.0	0.0	100		41	39.94	10.87
10558.0	0.0	0.0	100		43	39.94	10.87
10559.0	0.0	0.0	100		46	39.94	10.87
10560.0	0.0	0.0	100		46	39.94	10.87
10561.0	0.0	0.0	100		47	39.94	10.87

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10562.0	0.0	0.0	100		49	39.94	10.87
10577.0	0.0	0.0	100		42	39.94	10.87
10578.0	0.0	0.0	100		42	39.94	10.87
10582.0	0.0	0.0	100		45	39.94	10.87
10583.0	0.0	0.1	100		36	39.94	10.87
10584.0	0.0	0.1	100		35	39.94	10.87
10585.0	0.0	0.1	100		36	39.94	10.87
10586.0	0.0	0.0	100		36	39.94	10.87
10587.0	0.0	0.0	100		41	39.94	10.87
10598.0	0.0	0.0	100		41	39.94	10.87
10599.0	0.0	0.0	100		36	39.94	10.87
10600.0	0.0	0.1	100		35	39.94	10.87
10601.0	0.0	0.6	100		33	39.94	10.87
10602.0	0.0	3.8	100		15	39.92	10.87
10603.0	0.0	6.0	100		12	39.88	10.87
10604.0	0.0	6.4	100		8	39.81	10.87
10605.0	0.0	3.9	100		11	39.75	10.87
10606.0	0.0	2.4	100		11	39.72	10.87
10607.0	0.0	2.1	100		12	39.70	10.87
10608.0	0.0	2.2	100		15	39.68	10.87
10609.0	0.0	4.2	100		17	39.65	10.87
10610.0	0.0	0.0	100		36	39.61	10.87
10611.0	0.0	0.0	100		48	39.61	10.87
10633.0	0.0	0.0	100		46	39.61	10.87
10634.0	0.0	0.0	100		36	39.61	10.87
10635.0	0.0	1.0	100		26	39.61	10.87
10636.0	0.0	0.0	100		36	39.60	10.87
10637.0	0.0	0.2	100		35	39.60	10.87
10638.0	0.0	0.6	100		34	39.60	10.87
10639.0	0.0	0.5	100		35	39.59	10.87
10640.0	0.0	0.1	100		36	39.59	10.87
10641.0	0.0	0.0	100		36	39.59	10.87
10642.0	0.0	0.0	100		36	39.59	10.87
10643.0	0.0	0.0	100		36	39.59	10.87
10644.0	0.0	0.0	100		36	39.58	10.87
10645.0	0.0	0.1	100		35	39.58	10.87
10646.0	0.0	0.0	100		37	39.58	10.87
10647.0	0.0	0.0	100		38	39.58	10.87
10648.0	0.0	0.0	100		39	39.58	10.87
10649.0	0.0	0.0	100		39	39.58	10.87
10650.0	0.0	0.0	100		41	39.58	10.87
10651.0	0.0	0.0	100		41	39.58	10.87
10652.0	0.0	0.0	100		38	39.58	10.87
10653.0	0.0	0.0	100		38	39.58	10.87

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10654.0	0.0	0.0	100		39	39.58	10.87
10655.0	0.0	0.0	100		41	39.58	10.87
10656.0	0.0	0.0	100		42	39.58	10.87
10657.0	0.0	0.6	100		32	39.58	10.87
10658.0	0.0	5.0	100		12	39.56	10.87
10659.0	0.0	5.0	100		13	39.51	10.87
10660.0	0.0	2.9	100		15	39.46	10.87
10661.0	0.0	2.8	100		14	39.44	10.87
10662.0	0.0	3.9	100		19	39.40	10.87
10663.0	0.0	0.6	100		33	39.37	10.87
10664.0	0.0	0.2	100		37	39.37	10.87
10665.0	0.0	0.4	100		36	39.37	10.87
10666.0	0.0	3.3	100		19	39.36	10.87
10667.0	0.0	4.8	100		13	39.32	10.87
10668.0	0.0	4.6	100		15	39.28	10.87
10669.0	0.0	3.9	100		17	39.23	10.87
10670.0	0.0	3.3	100		20	39.19	10.87
10671.0	0.0	2.4	100		18	39.16	10.87
10672.0	0.0	2.1	100		16	39.14	10.87
10673.0	0.0	2.7	100		18	39.12	10.87
10674.0	0.0	0.8	100		31	39.09	10.87
10675.0	0.0	0.2	100		35	39.09	10.87
10676.0	0.0	1.8	100		18	39.08	10.87
10677.0	0.0	2.1	100		17	39.06	10.87
10678.0	0.0	2.2	100		19	39.04	10.87
10679.0	0.0	2.1	100		20	39.02	10.87
10680.0	0.0	2.1	100		19	39.00	10.87
10681.0	0.0	2.0	100		19	38.98	10.87
10682.0	0.0	2.2	100		20	38.96	10.87
10683.0	0.0	2.6	100		22	38.93	10.87
10684.0	0.0	2.2	100		24	38.91	10.87
10685.0	0.0	0.3	100		35	38.89	10.87
10686.0	0.0	0.3	100		35	38.88	10.87
10687.0	0.0	5.0	100		11	38.87	10.87
10688.0	0.0	5.1	100		7	38.82	10.87
10689.0	0.0	5.4	100		8	38.77	10.87
10690.0	0.0	5.8	100		8	38.71	10.87
10691.0	0.0	5.9	100		7	38.65	10.87
10692.0	0.0	5.6	100		10	38.60	10.87
10693.0	0.0	6.2	100		11	38.54	10.87
10694.0	0.0	5.8	100		10	38.48	10.87
10695.0	0.0	4.9	100		12	38.42	10.87
10696.0	0.0	5.6	100		12	38.37	10.87
10697.0	0.0	4.9	100		13	38.32	10.87
10698.0	0.0	3.5	100		12	38.27	10.87
10699.0	0.0	4.1	100		9	38.24	10.87
10700.0	0.0	5.4	100		10	38.19	10.87
10701.0	0.0	5.0	100		12	38.14	10.87

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10702.0	0.0	3.6	100		14	38.09	10.87
10703.0	0.0	3.2	100		13	38.06	10.87
10704.0	0.0	3.3	100		13	38.02	10.87
10705.0	0.0	2.4	100		15	37.99	10.87
10706.0	0.0	2.3	100		17	37.97	10.87
10707.0	0.0	2.3	100		17	37.95	10.87
10708.0	0.0	2.4	100		15	37.92	10.87
10709.0	0.0	2.6	100		14	37.90	10.87
10710.0	0.0	2.2	100		15	37.87	10.87
10711.0	0.0	2.2	100		16	37.85	10.87
10712.0	0.0	2.1	100		16	37.83	10.87
10713.0	0.0	2.1	100		17	37.81	10.87
10714.0	0.0	1.7	100		27	37.79	10.87
10715.0	0.0	0.1	100		43	37.78	10.87
10716.0	0.0	0.1	100		49	37.78	10.87
10721.0	0.0	0.0	100		45	37.78	10.87
10722.0	0.0	0.0	100		41	37.78	10.87
10723.0	0.0	0.0	100		38	37.78	10.87
10724.0	0.0	0.0	100		36	37.78	10.87
10725.0	0.0	1.0	100		21	37.77	10.87
10726.0	0.0	1.1	100		16	37.77	10.87
10727.0	0.0	1.5	100		14	37.75	10.87
10728.0	0.0	1.7	100		19	37.74	10.87
10729.0	0.0	1.6	100		22	37.72	10.87
10730.0	0.0	1.9	100		19	37.70	10.87
10731.0	0.0	1.5	100		19	37.69	10.87
10732.0	0.0	1.7	100		16	37.67	10.87
10733.0	0.0	3.0	100		16	37.65	10.87
10734.0	0.0	2.8	100		18	37.62	10.87
10735.0	0.0	2.5	100		21	37.60	10.87
10736.0	0.0	3.1	100		21	37.57	10.87
10737.0	0.0	3.8	100		19	37.54	10.87
10738.0	0.0	3.4	100		15	37.50	10.87
10739.0	0.0	2.8	100		13	37.47	10.87
10740.0	0.0	2.5	100		19	37.44	10.87
10741.0	0.0	1.2	100		30	37.42	10.87
10742.0	0.0	0.0	100		44	37.41	10.87
10743.0	0.0	1.3	100		20	37.41	10.87
10744.0	0.0	1.2	100		25	37.39	10.87
10745.0	0.0	1.4	100		21	37.38	10.87
10746.0	0.0	1.5	100		19	37.37	10.87
10747.0	0.0	1.6	100		19	37.35	10.87
10748.0	0.0	1.5	100		22	37.34	10.87
10749.0	0.0	1.3	100		19	37.32	10.87
10750.0	0.0	1.4	100		19	37.31	10.87
10751.0	0.0	1.6	100		21	37.29	10.87
10752.0	0.0	1.5	100		22	37.28	10.87

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10753.0	0.0	0.8	100		31	37.26	10.87
10754.0	0.0	0.0	100		40	37.26	10.87
10755.0	0.0	0.1	100		44	37.26	10.87
10756.0	0.0	0.1	100		49	37.26	10.87
10757.0	0.0	0.2	100		48	37.26	10.87
10758.0	0.0	0.2	100		44	37.25	10.87
10759.0	0.0	1.5	100		26	37.25	10.87
10760.0	0.0	1.5	100		20	37.24	10.87
10761.0	0.0	1.5	100		25	37.22	10.87
10762.0	0.0	1.4	100		29	37.21	10.87
10763.0	0.0	1.3	100		26	37.20	10.87
10764.0	0.0	0.1	100		35	37.19	10.87
10765.0	0.0	1.5	100		25	37.18	10.87
10766.0	0.0	1.5	100		21	37.17	10.87
10767.0	0.0	1.6	100		20	37.15	10.87
10768.0	0.0	0.6	100		33	37.14	10.87
10769.0	0.0	0.7	100		32	37.13	10.87
10770.0	0.0	1.7	100		20	37.12	10.87
10771.0	0.0	1.9	100		17	37.10	10.87
10772.0	0.0	2.0	100		17	37.08	10.87
10773.0	0.0	2.2	100		15	37.06	10.87
10774.0	0.0	2.5	100		14	37.04	10.87
10775.0	0.0	2.6	100		15	37.01	10.87
10776.0	0.0	2.4	100		16	36.99	10.87
10777.0	0.0	2.4	100		14	36.96	10.87
10778.0	0.0	2.9	100		15	36.94	10.87
10779.0	0.0	2.7	100		14	36.91	10.87
10780.0	0.0	2.4	100		15	36.88	10.87
10781.0	0.0	2.2	100		17	36.86	10.87
10782.0	0.0	1.6	100		21	36.84	10.87
10783.0	0.0	0.3	100		34	36.82	10.87
10784.0	0.0	0.4	100		34	36.82	10.87
10785.0	0.0	0.7	100		24	36.81	10.87
10786.0	0.0	0.8	100		22	36.81	10.87
10787.0	0.0	1.0	100		20	36.80	10.87
10788.0	0.0	2.3	100		17	36.79	10.87
10789.0	0.0	2.9	100		22	36.76	10.87
10790.0	0.0	0.1	100		37	36.74	10.87
10791.0	0.0	0.0	100		44	36.74	10.87
10810.0	0.0	0.0	100		43	36.74	10.87
10811.0	0.0	1.8	100		26	36.74	10.87
10812.0	0.0	2.4	100		21	36.72	10.87
10813.0	0.0	3.7	100		19	36.69	10.87
10814.0	0.0	3.8	100		21	36.65	10.87
10815.0	0.0	2.1	100		26	36.62	10.87
10816.0	0.0	0.8	100		32	36.60	10.87
10817.0	0.0	1.3	100		30	36.59	10.87

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10818.0	0.0	2.0	100		27	36.58	10.87
10819.0	0.0	2.0	100		27	36.56	10.87
10820.0	0.0	0.3	100		34	36.54	10.87
10821.0	0.0	0.1	100		35	36.54	10.87
10822.0	0.0	0.2	100		38	36.54	10.87
10823.0	0.0	0.0	100		39	36.54	10.87
10824.0	0.0	0.0	100		40	36.54	10.87
10825.0	0.0	0.0	100		44	36.54	10.87
10826.0	0.0	0.0	100		47	36.54	10.87
10827.0	0.0	0.0	100		48	36.54	10.87
10829.0	0.0	0.0	100		50	36.54	10.87
10830.0	0.0	0.0	100		49	36.54	10.87
10831.0	0.0	0.0	100		46	36.54	10.87
10832.0	0.0	0.0	100		44	36.54	10.87
10833.0	0.0	0.0	100		46	36.54	10.87
10834.0	0.0	0.0	100		41	36.54	10.87
10835.0	0.0	0.3	100		34	36.54	10.87
10836.0	0.0	0.1	100		35	36.53	10.87
10837.0	0.0	0.0	100		37	36.53	10.87
10838.0	0.0	0.0	100		42	36.53	10.87
10839.0	0.0	0.7	100		28	36.53	10.87
10840.0	0.0	2.2	100		18	36.52	10.87
10841.0	0.0	3.6	100		15	36.50	10.87
10842.0	0.0	4.3	100		16	36.46	10.87
10843.0	0.0	3.1	100		18	36.42	10.87
10844.0	0.0	2.5	100		13	36.39	10.87
10845.0	0.0	2.7	100		14	36.36	10.87
10846.0	0.0	3.5	100		18	36.34	10.87
10847.0	0.0	0.4	100		35	36.30	10.87
10848.0	0.0	0.2	100		39	36.30	10.87
10849.0	0.0	0.1	100		38	36.30	10.87
10850.0	0.0	0.0	100		40	36.30	10.87
10851.0	0.0	2.1	100		20	36.30	10.87
10852.0	0.0	4.4	100		17	36.27	10.87
10853.0	0.0	2.5	100		21	36.23	10.87
10854.0	0.0	0.3	100		34	36.21	10.87
10855.0	0.0	1.1	100		30	36.20	10.87
10856.0	0.0	2.3	100		26	36.19	10.87
10857.0	0.0	0.9	100		31	36.17	10.87
10858.0	0.0	0.1	100		39	36.16	10.87
10859.0	0.0	0.0	100		39	36.16	10.87
10860.0	0.0	0.0	100		44	36.16	10.87
10896.0	0.0	0.0	100		44	36.16	10.87
10897.0	0.0	0.6	100		34	36.16	10.87
10898.0	0.0	0.6	100		34	36.15	10.87
10899.0	0.0	0.4	100		34	36.15	10.87

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10900.0	0.0	0.1	100		36	36.15	10.87
10901.0	0.0	0.4	100		34	36.14	10.87
10902.0	0.0	0.0	100		39	36.14	10.87
10903.0	0.0	0.0	100		26	36.14	10.87
10904.0	0.0	1.6	100		15	36.14	10.87
10905.0	0.0	2.6	100		14	36.12	10.87
10906.0	0.0	1.6	100		22	36.09	10.87
10907.0	0.0	1.2	100		18	36.08	10.87
10908.0	0.0	2.8	100		14	36.06	10.87
10909.0	0.0	3.7	100		15	36.03	10.87
10910.0	0.0	2.7	100		20	36.00	10.87
10911.0	0.0	0.5	100		29	35.98	10.87
10912.0	0.0	1.4	100		18	35.97	10.87
10913.0	0.0	4.6	89		17	35.94	10.87
10914.0	0.0	4.5	91		18	35.90	10.86
10915.0	0.0	2.6	100		21	35.86	10.86
10916.0	0.0	1.5	100		28	35.83	10.86
10917.0	0.0	0.8	100		23	35.82	10.86
10918.0	0.0	1.0	100		15	35.81	10.86
10919.0	0.0	1.5	100		12	35.80	10.86
10920.0	0.0	0.4	100		16	35.79	10.86
10921.0	0.0	0.0	100		43	35.79	10.86
10926.0	0.0	0.0	100		48	35.79	10.86
10927.0	0.0	0.1	100		44	35.79	10.86
10928.0	0.0	0.0	100		45	35.79	10.86
10945.0	0.0	0.0	100		45	35.78	10.86
10950.0	0.0	0.0	100		49	35.78	10.86
10951.0	0.0	0.0	100		40	35.78	10.86
10952.0	0.0	1.6	100		19	35.78	10.86
10953.0	0.0	0.5	100		33	35.76	10.86
10954.0	0.0	2.0	100		27	35.76	10.86
10955.0	0.0	3.8	100		15	35.73	10.86
10956.0	0.0	4.2	98		12	35.69	10.86
10957.0	0.0	4.5	96		8	35.65	10.86
10958.0	0.0	4.0	99		9	35.61	10.86
10959.0	0.0	3.9	99		11	35.57	10.86
10960.0	0.0	5.0	77		9	35.53	10.86
10961.0	0.1	5.8	62		8	35.47	10.84
10962.0	0.1	5.7	61		10	35.42	10.82
10963.0	0.1	6.2	58		5	35.36	10.80
10964.0	0.2	6.5	49		6	35.29	10.77
10965.0	0.3	6.5	43		9	35.23	10.73
10966.0	0.0	3.9	74		10	35.17	10.70
10967.0	0.0	5.1	56		9	35.13	10.69
10968.0	0.0	5.2	63		7	35.08	10.67

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
10969.0	0.5	7.8	46	0.6	6	35.02	10.64
10970.0	5	11.4	35	0.3	3	34.93	10.59
10971.0	3	10.6	40	0.3	3	34.81	10.52
10972.0	1	9.5	44	0.3	4	34.71	10.46
10973.0	0.9	8.9	46		4	34.62	10.40
10974.0	0.7	8.5	47		7	34.53	10.36
10975.0	0.8	8.8	48		5	34.44	10.31
10976.0	0.9	9.0	47		5	34.36	10.27
10977.0	0.9	9.1	47		4	34.27	10.22
10978.0	1	9.0	45		6	34.17	10.17
10979.0	0.1	6.6	61		8	34.09	10.12
10980.0	0.0	1.5	100		13	34.03	10.11
10981.0	0.0	0.0	100		22	34.02	10.11
10982.0	0.0	0.0	100		25	34.02	10.11
10983.0	0.0	0.0	100		16	34.02	10.11
10984.0	0.0	3.7	98		10	34.02	10.11
10985.0	0.2	6.6	54		8	33.96	10.09
10986.0	0.1	5.9	65		10	33.90	10.07
10987.0	0.0	4.6	76		17	33.84	10.05
10988.0	0.0	2.1	100		22	33.81	10.04
10989.0	0.0	3.7	99		15	33.78	10.04
10990.0	0.0	5.1	77		10	33.74	10.03
10991.0	0.0	5.0	71		11	33.69	10.02
10992.0	0.1	5.7	65		13	33.64	10.01
10993.0	0.0	4.7	77		11	33.58	10.00
10994.0	0.1	6.0	58		9	33.53	9.98
10995.0	0.1	5.6	62		12	33.47	9.96
10996.0	0.0	4.2	100		13	33.42	9.94
10997.0	0.0	0.7	100		22	33.39	9.94
11011.0	0.0	0.0	100		47	33.38	9.94
11012.0	0.0	1.0	100		21	33.38	9.94
11013.0	0.0	4.5	95		16	33.36	9.94
11014.0	0.0	4.3	96		15	33.32	9.94
11015.0	0.1	6.0	63		11	33.27	9.93
11016.0	0.1	6.2	65		5	33.21	9.91
11017.0	0.2	6.9	63		0	33.15	9.88
11018.0	0.5	8.3	51		0	33.08	9.85
11019.0	0.6	8.4	50		0	32.99	9.81
11020.0	0.3	7.7	54		1	32.91	9.77
11021.0	0.4	7.9	53		0	32.83	9.74
11022.0	0.4	7.6	48		0	32.76	9.70
11023.0	0.3	7.1	52		1	32.68	9.66
11024.0	0.2	6.6	50		1	32.61	9.63
11025.0	0.2	6.6	49		1	32.54	9.59
11026.0	0.2	6.6	46		5	32.48	9.56
11027.0	0.1	5.7	51		9	32.41	9.52
11028.0	0.1	5.3	57		10	32.36	9.50

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11029.0	0.1	6.2	57		5	32.30	9.48
11030.0	0.2	6.5	49		5	32.24	9.45
11031.0	0.3	7.2	49		2	32.18	9.41
11032.0	0.5	7.7	44	0.3	0	32.10	9.38
11033.0	0.2	6.5	45		0	32.03	9.33
11034.0	1	8.1	36	0.3	0	31.96	9.30
11035.0	0.6	7.8	42	0.3	0	31.88	9.24
11036.0	0.5	6.1	25	0.5	0	31.80	9.20
11037.0	0.0	5.9	100		0	31.74	9.18
11038.0	0.3	6.5	43		0	31.68	9.16
11039.0	0.3	7.0	48		0	31.61	9.12
11040.0	0.2	6.7	51		4	31.55	9.09
11041.0	0.4	7.5	46		6	31.48	9.05
11042.0	0.0	4.4	72		15	31.41	9.02
11043.0	0.0	4.3	97		18	31.37	9.01
11044.0	0.0	0.0	100		38	31.33	9.01
11060.0	0.0	0.0	100		45	31.33	9.01
11061.0	0.0	0.0	100		46	31.33	9.01
11065.0	0.0	0.0	100		44	31.33	9.01
11066.0	0.0	2.3	100		26	31.33	9.01
11067.0	0.0	4.7	77		17	31.30	9.01
11068.0	0.0	4.8	78		12	31.25	9.00
11069.0	0.0	3.9	98		10	31.20	8.99
11070.0	0.0	3.4	100		9	31.16	8.99
11071.0	0.0	3.6	97		8	31.13	8.99
11072.0	0.0	3.8	99		8	31.09	8.99
11073.0	0.0	4.1	100		10	31.06	8.99
11074.0	0.0	4.9	87		16	31.01	8.99
11075.0	0.0	2.6	100		25	30.96	8.98
11076.0	0.0	3.9	100		15	30.93	8.98
11077.0	0.0	4.4	100		8	30.89	8.98
11078.0	0.0	4.1	98		5	30.85	8.98
11079.0	0.0	4.4	76		4	30.81	8.98
11080.0	0.0	5.1	65		1	30.76	8.96
11081.0	0.0	5.3	73		0	30.71	8.94
11082.0	0.1	5.8	55		0	30.66	8.93
11083.0	0.2	6.5	47		2	30.60	8.91
11084.0	0.3	6.5	43		2	30.53	8.87
11085.0	0.1	5.8	46		2	30.47	8.83
11086.0	0.1	5.3	59		2	30.41	8.81
11087.0	0.1	6.7	63		0	30.35	8.78
11088.0	0.0	6.2	95		1	30.29	8.76
11089.0	0.0	6.5	80		12	30.22	8.76
11090.0	0.0	0.0	100		43	30.19	8.75
11095.0	0.0	0.0	100		47	30.19	8.75

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11103.0	0.0	0.0	100		22	30.19	8.75
11104.0	0.0	3.9	100		12	30.19	8.75
11105.0	0.0	2.9	100		6	30.15	8.75
11106.0	0.0	1.2	100		6	30.12	8.75
11107.0	0.0	0.0	100		18	30.11	8.75
11108.0	0.0	0.0	100		36	30.11	8.75
11111.0	0.0	0.0	100		49	30.11	8.75
11129.0	0.0	0.0	100		46	30.11	8.75
11130.0	0.0	0.0	100		48	30.11	8.75
11131.0	0.0	0.0	100		43	30.11	8.75
11136.0	0.0	1.7	100		28	30.11	8.75
11137.0	0.0	4.1	100		18	30.08	8.75
11138.0	0.0	3.9	100		18	30.04	8.75
11139.0	0.0	4.3	100		18	30.00	8.75
11140.0	0.0	4.7	95		18	29.96	8.75
11141.0	0.0	4.6	96		16	29.91	8.75
11142.0	0.0	4.6	82		16	29.86	8.75
11143.0	0.0	5.3	65		11	29.82	8.73
11144.0	0.1	6.1	64		3	29.76	8.71
11145.0	0.1	6.2	61		4	29.70	8.69
11146.0	0.1	6.0	59		7	29.63	8.67
11147.0	0.0	4.7	71		13	29.58	8.64
11148.0	0.0	4.5	84		11	29.53	8.63
11149.0	0.0	5.0	63		12	29.49	8.62
11150.0	0.1	5.5	58		9	29.44	8.60
11151.0	0.1	5.8	61		8	29.38	8.58
11152.0	0.0	2.8	100		19	29.32	8.56
11161.0	0.0	0.4	100		13	29.31	8.56
11162.0	0.5	8.6	59		3	29.28	8.56
11163.0	0.5	8.2	50		1	29.20	8.52
11164.0	0.5	7.8	45		3	29.11	8.48
11165.0	0.6	8.1	46		2	29.04	8.43
11166.0	0.2	6.8	51		2	28.96	8.39
11167.0	0.1	5.6	61		1	28.89	8.36
11168.0	0.1	6.0	58		0	28.84	8.34
11169.0	0.2	6.7	51		0	28.77	8.31
11170.0	0.2	6.8	48		0	28.71	8.28
11171.0	0.2	6.4	48		0	28.64	8.25
11172.0	0.1	5.5	55		0	28.58	8.21
11173.0	0.0	4.9	60		2	28.52	8.19
11174.0	0.1	5.2	55		2	28.48	8.17
11175.0	0.1	5.7	56		2	28.42	8.15
11176.0	0.1	5.8	57		4	28.36	8.12

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11177.0	0.0	5.3	60		8	28.31	8.10
11178.0	0.0	4.6	78		8	28.26	8.08
11179.0	0.0	3.6	100		8	28.21	8.07
11180.0	0.0	3.1	100		12	28.18	8.07
11181.0	0.0	2.8	100		13	28.15	8.07
11182.0	0.0	3.0	100		8	28.12	8.07
11183.0	0.0	3.3	100		7	28.09	8.07
11184.0	0.0	4.1	78		5	28.05	8.07
11185.0	0.0	4.9	59		2	28.01	8.06
11186.0	0.0	5.4	100		0	27.96	8.03
11187.0	0.7	7.1	32	0.4	0	27.90	8.03
11188.0	1	7.5	28	0.4	0	27.83	7.98
11189.0	0.3	6.1	33	0.5	0	27.76	7.93
11190.0	0.6	6.7	31		1	27.69	7.89
11191.0	0.3	5.8	32		3	27.63	7.84
11192.0	0.0	4.4	59		4	27.57	7.81
11193.0	0.1	5.4	55		8	27.53	7.79
11194.0	0.0	5.0	69		17	27.47	7.76
11204.0	0.0	0.0	100		43	27.44	7.75
11205.0	0.0	0.7	100		33	27.44	7.75
11206.0	0.0	2.2	100		26	27.43	7.75
11207.0	0.0	0.1	100		37	27.41	7.75
11208.0	0.0	1.6	100		19	27.41	7.75
11209.0	0.0	2.5	100		17	27.39	7.75
11210.0	0.0	0.0	100		48	27.38	7.75
11214.0	0.0	0.0	100		48	27.38	7.75
11215.0	0.0	0.8	100		32	27.38	7.75
11216.0	0.0	0.8	100		32	27.36	7.75
11217.0	0.0	0.0	100		41	27.36	7.75
11218.0	0.0	0.0	100		44	27.36	7.75
11219.0	0.0	0.0	100		43	27.36	7.75
11223.0	0.0	2.4	100		25	27.36	7.75
11224.0	0.0	3.5	100		14	27.32	7.75
11225.0	0.0	2.8	100		15	27.29	7.75
11226.0	0.0	2.8	100		13	27.26	7.75
11227.0	0.0	3.5	100		12	27.23	7.75
11228.0	0.0	3.6	100		9	27.20	7.75
11229.0	0.0	3.5	100		10	27.16	7.75
11230.0	0.0	2.4	100		25	27.13	7.75
11233.0	0.0	0.0	100		43	27.12	7.75
11234.0	0.0	0.0	100		41	27.12	7.75
11235.0	0.0	0.0	100		40	27.12	7.75
11236.0	0.0	0.0	100		44	27.12	7.75
11237.0	0.0	0.0	100		38	27.12	7.75

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11238.0	0.0	0.0	100		39	27.12	7.75
11246.0	0.0	0.0	100		49	27.12	7.75
11247.0	0.0	4.9	97		11	27.12	7.75
11248.0	0.0	4.0	100		7	27.07	7.75
11249.0	0.0	4.3	100		9	27.03	7.75
11250.0	0.0	0.6	100		33	26.99	7.75
11261.0	0.0	0.0	100		48	26.98	7.75
11268.0	0.0	0.7	100		22	26.98	7.75
11269.0	0.0	1.9	100		23	26.98	7.75
11270.0	0.0	0.2	100		24	26.96	7.75
11271.0	0.0	1.2	100		21	26.96	7.75
11272.0	0.0	2.4	100		21	26.94	7.75
11273.0	0.0	0.2	100		38	26.93	7.75
11274.0	0.0	0.0	100		41	26.93	7.75
11275.0	0.0	2.4	100		23	26.93	7.75
11276.0	0.0	4.3	92		13	26.89	7.75
11277.0	0.0	3.8	100		12	26.85	7.75
11278.0	0.0	4.0	100		14	26.81	7.75
11279.0	0.0	0.0	100		45	26.78	7.75
11291.0	0.0	0.0	100		42	26.78	7.75
11292.0	0.0	2.2	100		22	26.78	7.75
11293.0	0.0	3.3	98		18	26.75	7.75
11294.0	0.0	4.0	87		14	26.72	7.75
11295.0	0.0	4.1	90		11	26.68	7.74
11296.0	0.0	4.0	95		9	26.64	7.74
11297.0	0.0	4.0	91		10	26.60	7.74
11298.0	0.0	4.6	76		7	26.55	7.73
11299.0	0.0	4.3	91		6	26.51	7.72
11300.0	0.0	4.7	81		6	26.47	7.72
11301.0	0.0	4.5	89		7	26.42	7.71
11302.0	0.0	3.7	99		9	26.38	7.71
11303.0	0.0	3.8	97		14	26.34	7.71
11304.0	0.0	3.5	100		21	26.30	7.70
11305.0	0.0	0.0	100		48	26.28	7.70
11314.0	0.0	0.0	100		48	26.28	7.70
11321.0	0.0	0.0	100		42	26.28	7.70
11322.0	0.0	4.8	100		10	26.28	7.70
11323.0	0.0	6.0	71		5	26.22	7.70
11324.0	0.4	7.9	53		2	26.16	7.68
11325.0	0.5	8.4	55		0	26.08	7.64
11326.0	0.0	6.5	75		3	26.00	7.61
11327.0	0.0	4.7	100		12	25.94	7.60

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11328.0	0.0	0.3	100		34	25.89	7.60
11340.0	0.0	0.0	100		39	25.89	7.60
11341.0	0.0	0.1	100		37	25.88	7.60
11342.0	0.0	0.0	100		47	25.88	7.60
11347.0	0.0	0.0	100		48	25.88	7.60
11352.0	0.0	0.0	100		43	25.88	7.60
11353.0	0.0	0.1	100		36	25.88	7.60
11354.0	0.0	2.7	100		23	25.87	7.60
11355.0	0.0	0.0	100		42	25.86	7.60
11366.0	0.0	0.0	100		46	25.86	7.60
11367.0	0.0	0.0	100		42	25.86	7.60
11368.0	0.0	0.0	100		43	25.86	7.60
11369.0	0.0	0.0	100		45	25.86	7.60
11370.0	0.0	0.0	100		45	25.86	7.60
11371.0	0.0	0.0	100		46	25.86	7.60
11372.0	0.0	0.0	100		48	25.86	7.60
11373.0	0.0	0.3	100		31	25.86	7.60
11374.0	0.0	0.0	100		16	25.86	7.60
11375.0	0.0	0.0	100		25	25.86	7.60
11376.0	0.0	0.0	100		40	25.86	7.60
11377.0	0.0	0.0	100		47	25.85	7.60
11378.0	0.0	0.1	100		48	25.85	7.60
11379.0	0.0	0.1	100		40	25.85	7.60
11380.0	0.0	1.4	100		23	25.85	7.60
11381.0	0.0	1.0	100		24	25.83	7.60
11382.0	0.0	0.7	100		22	25.82	7.60
11383.0	0.0	0.9	100		26	25.82	7.60
11384.0	0.0	0.7	100		32	25.81	7.60
11385.0	0.0	3.3	100		22	25.79	7.60
11386.0	0.0	5.2	100		17	25.75	7.60
11387.0	0.0	5.4	100		15	25.70	7.60
11388.0	0.0	5.5	100		16	25.65	7.60
11389.0	0.0	3.4	100		22	25.59	7.60
11390.0	0.0	0.0	100		39	25.58	7.60
11391.0	0.0	0.2	100		34	25.58	7.60
11392.0	0.0	3.4	100		16	25.56	7.60
11393.0	0.0	4.1	100		19	25.53	7.60
11394.0	0.0	1.0	100		31	25.49	7.60
11395.0	0.0	0.0	100		44	25.49	7.60
11421.0	0.0	0.0	100		46	25.49	7.60
11422.0	0.0	0.1	100		39	25.49	7.60
11423.0	0.0	0.1	100		40	25.48	7.60
11424.0	0.0	0.0	100		40	25.48	7.60

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11425.0	0.0	0.0	100		43	25.48	7.60
11431.0	0.0	0.0	100		50	25.48	7.60
11432.0	0.0	0.0	100		43	25.48	7.60
11433.0	0.0	0.0	100		37	25.48	7.60
11434.0	0.0	2.7	100		23	25.48	7.60
11435.0	0.0	3.2	100		23	25.45	7.60
11436.0	0.0	2.4	100		25	25.42	7.60
11437.0	0.0	1.2	100		30	25.40	7.60
11438.0	0.0	0.1	100		35	25.39	7.60
11439.0	0.0	0.0	100		38	25.39	7.60
11440.0	0.0	0.0	100		42	25.39	7.60
11446.0	0.0	0.0	100		49	25.39	7.60
11447.0	0.0	0.0	100		45	25.39	7.60
11448.0	0.0	0.0	100		47	25.39	7.60

Schlumberger

ISS - 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
0 2 0 1 0 1 1 0 2 0 0 0 0 0 0 0 1 0 0 0 0

INPUT PARAMETERS FROM 12360. TO 11450.

WMUD	XLIT	BITSZ	BHT	BHTDEP	SURT	RMF	RMFT	ROMFS	PHIMFS	DASIL
12.7	0.50	7.88	187.	12400.	60.	0.30	187.	1.005	0.994	0.600

SPCK	DSPCK	RODC	DELRGM	START	STOPLG	ZSPNL	BGN	ZSPDL	REC	RESH	CSS
0.	0.	2.84	0.20	12360.	3020.	0.000	1.00	-0.030	15.20	6.00	0.2

WHY	PHILEV	BR	SLIM	AK	PK	SK	STOPIN	PHIMAX	PHINCL	PHIDCL
.200	0.000	.10	0.30	62500.	6.0	2.0	11450.	0.100	0.290	-0.005

PHINSO	RTPM	PUN	DAX	DALIM	DAGA	DASH	DTSD	DTSH	CP	PSSH
0.080	169.	.015	95.	47.	38.	125.	150.	150.	1.00	.090

EDIAM	PNLIM	PDLIM	RLIM	GRLIM	VARMC	CONST	ROP	VARLIM	CSF
0.00	0.30	0.25	10.0	1000.0	0.07	0.333	0.70	0.20	0.50

RESISTIVITY STATISTICS OVER ENTIRE INTERVAL

GAMMA - RAY STATISTICS OVER ENTIRE INTERVAL

SONIC STATISTICS OVER ENTIRE INTERVAL

ANALYSIS BY QUASI MODEL
PERMEABILITY BY TIMUR EQUATION
SP NOT USED IN SHALINESS DETERMINATION
GR COEFF. FROM STATISTICS
SONIC COEFF. FROM STATISTICS
WASAMP ROUTINE USED

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11452.0	0.0	0.0	100		47	25.38	7.60
11464.0	0.0	0.0	100		50	25.37	7.60
11465.0	0.0	0.0	100		43	25.37	7.60
11466.0	0.0	0.0	100		43	25.37	7.60
11467.0	0.0	0.0	100		45	25.37	7.60
11468.0	0.0	0.2	100		48	25.37	7.60
11473.0	0.0	0.2	100		48	25.34	7.60
11474.0	0.0	1.9	100		37	25.33	7.60
11475.0	0.0	0.8	100		37	25.32	7.60
11476.0	0.0	2.1	100		28	25.30	7.60
11477.0	0.0	1.0	100		34	25.29	7.60
11478.0	0.0	0.0	100		42	25.28	7.60
11479.0	0.0	0.2	100		43	25.28	7.60
11480.0	0.0	0.8	100		43	25.28	7.60
11481.0	0.0	2.0	100		45	25.27	7.60
11482.0	0.0	0.8	100		48	25.25	7.60
11483.0	0.0	0.1	100		49	25.24	7.60
11490.0	0.0	0.0	100		48	25.24	7.60
11491.0	0.0	0.7	100		48	25.24	7.60
11494.0	0.0	3.3	100		50	25.20	7.60
11499.0	0.0	0.9	100		47	25.04	7.60
11500.0	0.0	1.8	100		28	25.03	7.60
11501.0	0.0	4.3	80		15	25.00	7.60
11502.0	0.0	5.2	59		13	24.96	7.58
11503.0	0.1	6.1	54		14	24.90	7.56
11504.0	0.0	6.0	79		16	24.84	7.53
11505.0	0.0	0.0	100		40	24.79	7.53
11522.0	0.0	0.0	100		50	24.79	7.53
11533.0	0.0	0.0	100		48	24.78	7.53
11545.0	0.0	1.9	100		40	24.69	7.53
11546.0	0.0	2.3	100		30	24.67	7.53
11547.0	0.0	3.4	97		26	24.64	7.53
11548.0	0.0	4.3	48		23	24.61	7.52
11549.0	0.1	4.8	41		23	24.56	7.49
11550.0	0.0	4.3	51		27	24.52	7.47
11551.0	0.1	5.0	41		24	24.47	7.44
11552.0	0.1	5.1	44		24	24.42	7.41
11553.0	0.1	5.4	44		23	24.37	7.39
11554.0	0.1	5.5	49		23	24.32	7.36
11555.0	0.0	4.7	50		27	24.26	7.33

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11556.0	0.0	4.7	53		26	24.22	7.31
11557.0	0.1	5.4	46		24	24.17	7.28
11558.0	0.1	5.8	44		25	24.11	7.25
11559.0	0.2	6.0	43		24	24.05	7.22
11560.0	0.1	4.9	47		27	24.00	7.19
11561.0	0.0	4.2	59		30	23.95	7.17
11562.0	0.0	3.8	69		33	23.91	7.15
11563.0	0.0	3.9	67		34	23.87	7.14
11564.0	0.0	3.6	97		28	23.83	7.13
11565.0	0.0	4.0	70		24	23.80	7.12
11566.0	0.0	2.7	100		31	23.76	7.11
11567.0	0.0	0.7	100		46	23.73	7.11
11570.0	0.0	3.8	100		44	23.69	7.11
11571.0	0.0	3.1	100		36	23.66	7.11
11572.0	0.0	3.5	100		31	23.63	7.11
11573.0	0.0	4.0	86		29	23.59	7.11
11574.0	0.0	4.4	69		25	23.55	7.10
11575.0	0.0	4.3	69		26	23.50	7.09
11576.0	0.0	4.5	64		25	23.46	7.07
11577.0	0.0	4.5	62		24	23.42	7.06
11578.0	0.0	3.4	100		29	23.37	7.04
11579.0	0.0	3.3	100		38	23.34	7.04
11580.0	0.0	4.9	57		38	23.30	7.04
11581.0	0.0	4.9	59		36	23.25	7.01
11582.0	0.0	4.0	99		42	23.20	7.00
11583.0	0.0	3.5	100		47	23.17	7.00
11584.0	0.0	3.7	100		45	23.13	7.00
11585.0	0.0	3.9	100		33	23.09	7.00
11586.0	0.0	4.3	100		27	23.05	7.00
11587.0	0.1	5.5	63		27	23.01	6.99
11588.0	0.1	5.3	48		34	22.95	6.97
11607.0	0.0	0.0	0		0	0.00	0.00
11608.0	0.0	0.0	0		0	0.00	0.00
11616.0	0.0	3.1	100		48	22.56	6.94
11617.0	0.0	2.1	100		47	22.53	6.94
11618.0	0.0	2.2	100		48	22.51	6.94
11619.0	0.0	2.6	100		43	22.49	6.94
11620.0	0.0	2.6	100		40	22.46	6.94
11621.0	0.0	2.1	100		38	22.44	6.94
11622.0	0.0	2.3	100		36	22.41	6.94
11623.0	0.0	2.3	100		39	22.39	6.94
11624.0	0.0	2.4	100		42	22.37	6.94
11625.0	0.0	2.9	100		43	22.34	6.94
11626.0	0.0	2.8	100		45	22.31	6.94
11628.0	0.0	0.0	0		0	0.00	0.00

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11629.0	0.0	0.0	0		0	0.00	0.00
11632.0	0.0	3.4	100		45	22.18	6.93
11633.0	0.0	0.6	100		47	22.15	6.93
11634.0	0.0	2.5	100		38	22.15	6.93
11635.0	0.0	2.9	100		36	22.12	6.93
11636.0	0.0	2.6	100		38	22.09	6.93
11637.0	0.0	2.9	100		40	22.06	6.93
11638.0	0.0	2.7	100		42	22.03	6.93
11639.0	0.0	2.5	100		44	22.01	6.93
11644.0	0.0	2.8	100		50	21.92	6.93
11645.0	0.0	2.4	100		47	21.89	6.93
11646.0	0.0	1.9	100		48	21.87	6.93
11647.0	0.0	2.3	100		46	21.85	6.93
11648.0	0.0	2.3	100		45	21.83	6.93
11653.0	0.0	2.1	100		50	21.77	6.93
11658.0	0.0	3.8	100		40	21.62	6.93
11659.0	0.0	3.9	100		44	21.58	6.93
11660.0	0.0	4.8	71		44	21.54	6.93
11661.0	0.0	5.1	63		40	21.49	6.92
11662.0	0.0	4.3	69		46	21.44	6.90
11663.0	0.0	3.0	100		45	21.40	6.89
11664.0	0.0	0.3	100		45	21.38	6.89
11665.0	0.0	0.9	100		35	21.37	6.89
11666.0	0.0	1.4	100		33	21.36	6.89
11667.0	0.0	0.8	100		40	21.35	6.89
11668.0	0.0	0.0	100		49	21.35	6.89
11669.0	0.0	3.0	100		43	21.35	6.89
11670.0	0.1	5.3	46		31	21.30	6.87
11671.0	0.0	3.2	100		33	21.25	6.85
11672.0	0.0	0.2	100		44	21.23	6.85
11687.0	0.0	0.0	0		0	0.00	0.00
11688.0	0.0	0.0	0		0	0.00	0.00
11689.0	0.0	0.0	0		0	0.00	0.00
11690.0	0.0	0.0	0		0	0.00	0.00
11691.0	0.0	2.7	100		48	21.15	6.85
11692.0	0.0	0.4	100		44	21.13	6.85
11693.0	0.0	3.2	100		44	21.12	6.85
11696.0	0.0	2.6	100		49	21.03	6.85
11697.0	0.0	3.8	98		49	21.01	6.85
11699.0	0.0	1.4	100		44	20.94	6.85
11700.0	0.0	2.0	100		42	20.92	6.85

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11701.0	0.0	2.5	100		42	20.90	6.85
11702.0	0.0	3.2	100		45	20.88	6.85
11703.0	0.0	3.9	78		44	20.84	6.84
11704.0	0.0	3.8	73		37	20.80	6.84
11705.0	0.0	4.6	58		26	20.76	6.83
11706.0	0.0	4.6	55		31	20.72	6.81
11707.0	0.3	6.4	38		40	20.67	6.78
11708.0	0.0	4.3	66		36	20.61	6.74
11709.0	0.0	2.4	100		40	20.57	6.74
11710.0	0.0	2.7	100		30	20.54	6.74
11711.0	0.1	5.9	54		13	20.51	6.73
11712.0	0.2	6.3	47		8	20.45	6.70
11713.0	0.2	6.2	49		6	20.38	6.66
11714.0	0.1	6.1	51		5	20.32	6.63
11715.0	0.1	5.3	57		10	20.26	6.60
11716.0	0.0	3.5	100		20	20.21	6.59
11717.0	0.0	4.6	74		20	20.17	6.58
11718.0	0.0	2.7	100		30	20.13	6.57
11719.0	0.0	3.5	100		37	20.10	6.57
11720.0	0.2	6.4	45		30	20.06	6.56
11721.0	0.1	5.7	50		19	20.00	6.53
11722.0	0.3	6.6	41		11	19.94	6.50
11723.0	0.4	6.6	34		10	19.87	6.45
11724.0	0.2	5.8	34		12	19.81	6.41
11725.0	0.2	5.5	31		12	19.75	6.37
11726.0	0.8	6.8	26	0.5	8	19.69	6.33
11727.0	0.6	6.3	27	0.5	10	19.62	6.28
11728.0	0.3	6.2	33		9	19.56	6.24
11729.0	0.1	5.8	43		12	19.50	6.20
11730.0	0.0	4.8	54		18	19.45	6.17
11731.0	0.0	4.1	71		22	19.40	6.15
11732.0	0.0	3.6	100		25	19.36	6.14
11733.0	0.0	1.5	100		36	19.33	6.14
11734.0	0.0	2.0	100		39	19.31	6.14
11735.0	0.0	2.1	100		34	19.29	6.14
11736.0	0.0	5.2	67		18	19.26	6.14
11737.0	0.0	4.8	61		18	19.21	6.12
11738.0	0.0	4.2	67		19	19.16	6.10
11739.0	0.0	4.2	72		21	19.12	6.09
11740.0	0.0	2.2	100		31	19.08	6.08
11741.0	0.0	2.0	100		37	19.06	6.08
11742.0	0.0	1.9	100		38	19.04	6.08
11743.0	0.0	1.8	100		35	19.03	6.08
11744.0	0.0	2.2	100		35	19.01	6.08
11745.0	0.0	2.5	100		38	18.99	6.08
11746.0	0.0	3.7	100		35	18.96	6.08
11747.0	0.0	3.4	100		37	18.92	6.08
11748.0	0.0	2.7	100		40	18.89	6.08

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11749.0	0.0	0.2	100		42	18.87	6.08
11750.0	0.0	0.0	100		42	18.87	6.08
11751.0	0.0	0.3	100		49	18.87	6.08
11752.0	0.0	0.5	100		49	18.86	6.08
11753.0	0.0	0.6	100		42	18.85	6.08
11754.0	0.0	1.3	100		35	18.85	6.08
11755.0	0.0	0.0	100		40	18.84	6.08
11756.0	0.0	0.3	100		44	18.84	6.08
11757.0	0.0	2.4	100		38	18.83	6.08
11758.0	0.0	2.8	100		32	18.80	6.08
11759.0	0.0	2.2	100		32	18.78	6.08
11760.0	0.0	2.8	100		28	18.76	6.08
11761.0	0.0	4.0	68		21	18.73	6.08
11762.0	0.0	4.2	67		19	18.68	6.07
11763.0	0.0	3.2	100		24	18.64	6.06
11764.0	0.0	2.9	100		29	18.61	6.06
11765.0	0.0	1.3	100		36	18.59	6.06
11766.0	0.0	1.9	100		34	18.57	6.06
11767.0	0.0	2.3	100		36	18.55	6.06
11768.0	0.0	2.8	100		33	18.53	6.06
11769.0	0.0	3.7	100		24	18.50	6.06
11770.0	0.0	2.8	100		22	18.46	6.06
11771.0	0.0	2.2	100		22	18.44	6.06
11772.0	0.0	3.5	100		17	18.41	6.06
11773.0	0.0	4.4	73		16	18.37	6.05
11774.0	0.0	4.2	66		20	18.33	6.04
11775.0	0.1	5.1	45		19	18.29	6.02
11776.0	0.0	3.3	100		29	18.24	6.00
11777.0	0.0	2.6	100		37	18.21	6.00
11778.0	0.0	2.4	100		38	18.18	6.00
11779.0	0.0	2.2	100		30	18.16	6.00
11780.0	0.0	0.0	100		39	18.14	6.00
11782.0	0.0	4.9	51		48	18.13	6.00
11786.0	0.0	2.3	100		47	18.00	5.99
11787.0	0.0	3.1	100		45	17.97	5.99
11788.0	0.0	3.3	100		40	17.94	5.99
11793.0	0.0	2.4	100		49	17.90	5.99
11794.0	0.0	3.1	100		49	17.87	5.99
11797.0	0.0	0.0	100		46	17.82	5.99
11798.0	0.0	0.9	100		40	17.82	5.99
11799.0	0.0	0.7	100		41	17.82	5.99
11802.0	0.0	0.0	100		44	17.81	5.99
11803.0	0.0	1.2	100		33	17.81	5.99

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11804.0	0.0	2.4	100		27	17.80	5.99
11805.0	0.0	5.0	96		14	17.77	5.99
11806.0	0.0	5.7	75		11	17.71	5.98
11807.0	0.1	5.6	64		12	17.66	5.97
11808.0	0.1	6.0	55		12	17.60	5.94
11809.0	0.1	6.0	49		12	17.54	5.92
11810.0	0.2	6.8	52		8	17.48	5.89
11811.0	0.1	6.2	62		10	17.41	5.85
11812.0	0.0	4.2	89		19	17.35	5.83
11813.0	0.0	3.9	100		23	17.31	5.83
11814.0	0.0	5.0	71		21	17.27	5.83
11815.0	0.0	6.2	67		12	17.22	5.81
11816.0	0.1	6.8	62		6	17.15	5.79
11817.0	0.1	6.4	53		9	17.09	5.76
11818.0	0.1	6.2	49		12	17.02	5.73
11819.0	0.1	5.2	55		13	16.96	5.70
11820.0	0.0	3.7	77		17	16.92	5.68
11821.0	0.0	2.8	100		19	16.88	5.68
11822.0	0.0	2.2	100		21	16.85	5.68
11823.0	0.0	2.6	100		20	16.83	5.68
11824.0	0.0	3.9	100		17	16.80	5.68
11825.0	0.0	3.9	66		18	16.76	5.67
11826.0	0.0	3.8	68		17	16.72	5.66
11827.0	0.0	3.8	69		16	16.69	5.65
11828.0	0.0	4.2	68		17	16.65	5.63
11829.0	0.0	3.7	99		26	16.60	5.62
11830.0	0.0	1.9	100		42	16.57	5.62
11831.0	0.0	2.9	100		45	16.55	5.62
11835.0	0.0	0.8	100		44	16.52	5.62
11836.0	0.0	0.1	100		45	16.51	5.62
11837.0	0.0	0.0	100		47	16.51	5.62
11838.0	0.0	0.0	100		41	16.51	5.62
11839.0	0.0	0.2	100		41	16.51	5.62
11840.0	0.0	0.0	100		43	16.51	5.62
11841.0	0.0	0.0	100		45	16.51	5.62
11842.0	0.0	0.0	100		39	16.51	5.62
11843.0	0.0	0.1	100		35	16.51	5.62
11844.0	0.0	3.3	100		29	16.50	5.62
11845.0	0.0	4.7	56		30	16.46	5.61
11846.0	0.0	3.7	96		32	16.41	5.59
11847.0	0.0	3.6	100		24	16.38	5.59
11848.0	0.0	4.4	90		17	16.34	5.59
11849.0	0.0	4.3	91		19	16.29	5.59
11850.0	0.0	5.2	78		15	16.25	5.58
11851.0	0.0	5.0	87		13	16.20	5.57
11852.0	0.0	4.7	93		12	16.15	5.56
11853.0	0.0	4.6	95		13	16.10	5.56

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11854.0	0.0	2.9	100		20	16.06	5.56
11855.0	0.0	2.9	100		20	16.03	5.56
11856.0	0.0	3.9	100		17	16.00	5.56
11857.0	0.0	3.6	100		18	15.96	5.56
11858.0	0.0	4.0	88		16	15.92	5.56
11859.0	0.0	4.5	78		15	15.88	5.55
11860.0	0.0	4.1	90		16	15.84	5.54
11861.0	0.0	4.8	79		13	15.80	5.54
11862.0	0.0	4.9	80		14	15.75	5.53
11863.0	0.0	4.0	100		15	15.70	5.52
11864.0	0.0	2.8	100		16	15.66	5.52
11865.0	0.0	2.0	100		21	15.64	5.52
11866.0	0.0	2.4	100		19	15.62	5.52
11867.0	0.0	2.3	100		20	15.59	5.52
11868.0	0.0	1.8	100		24	15.57	5.52
11869.0	0.0	1.0	100		29	15.56	5.52
11870.0	0.0	0.9	100		34	15.54	5.52
11871.0	0.0	0.0	100		47	15.54	5.52
11875.0	0.0	0.7	100		49	15.53	5.52
11876.0	0.0	2.1	100		44	15.52	5.52
11877.0	0.0	2.6	100		44	15.50	5.52
11878.0	0.0	0.0	100		48	15.48	5.52
11879.0	0.0	0.0	100		46	15.48	5.52
11880.0	0.0	0.0	100		39	15.48	5.52
11881.0	0.0	1.7	100		29	15.48	5.52
11882.0	0.0	3.8	79		15	15.46	5.52
11883.0	0.0	4.1	72		14	15.42	5.51
11884.0	0.0	4.5	60		13	15.38	5.50
11885.0	0.0	4.7	65		13	15.33	5.48
11886.0	0.1	5.6	58		10	15.28	5.46
11887.0	0.1	5.3	57		11	15.22	5.44
11888.0	0.0	4.5	64		15	15.17	5.42
11889.0	0.0	4.4	65		14	15.13	5.40
11890.0	0.0	4.5	61		14	15.08	5.39
11891.0	0.0	4.1	65		14	15.04	5.37
11892.0	0.0	3.8	70		14	15.00	5.35
11893.0	0.0	3.1	100		14	14.96	5.35
11894.0	0.0	3.5	73		12	14.93	5.34
11895.0	0.0	3.5	72		13	14.89	5.33
11896.0	0.0	3.5	71		13	14.86	5.32
11897.0	0.0	3.3	91		15	14.82	5.31
11898.0	0.0	3.3	78		15	14.79	5.31
11899.0	0.0	3.9	64		14	14.76	5.30
11900.0	0.0	3.7	64		14	14.72	5.29
11901.0	0.0	3.4	74		16	14.68	5.27
11902.0	0.0	3.7	68		17	14.65	5.27
11903.0	0.1	5.0	45		16	14.61	5.25

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11904.0	0.2	6.1	48		10	14.55	5.22
11905.0	0.3	6.9	48		7	14.49	5.19
11906.0	0.2	7.0	51		9	14.42	5.15
11907.0	0.1	5.7	56		17	14.35	5.12
11908.0	0.0	5.0	63		20	14.30	5.10
11909.0	0.0	4.9	70		21	14.25	5.08
11910.0	0.0	4.3	76		22	14.20	5.07
11911.0	0.0	4.4	67		23	14.16	5.06
11912.0	0.0	4.5	65		21	14.11	5.04
11913.0	0.0	4.9	66		15	14.07	5.02
11914.0	0.0	4.0	72		21	14.02	5.01
11915.0	0.0	2.5	100		37	13.99	5.00
11916.0	0.1	5.1	46		27	13.95	4.99
11917.0	0.4	7.1	44		13	13.90	4.96
11918.0	0.3	6.7	40		11	13.83	4.92
11919.0	0.1	5.6	41		11	13.77	4.89
11920.0	0.1	5.1	45		12	13.71	4.86
11921.0	0.0	3.9	64		15	13.66	4.83
11922.0	0.0	3.5	72		16	13.63	4.82
11923.0	0.0	3.9	62		17	13.59	4.81
11924.0	0.0	4.6	49		17	13.55	4.79
11925.0	0.0	3.4	98		18	13.51	4.77
11926.0	0.0	3.0	100		20	13.47	4.77
11927.0	0.0	2.7	100		25	13.44	4.77
11928.0	0.0	3.6	100		23	13.42	4.77
11929.0	0.0	3.6	100		21	13.38	4.77
11930.0	0.0	3.3	100		16	13.34	4.77
11931.0	0.0	2.9	100		17	13.31	4.77
11932.0	0.0	2.3	100		19	13.28	4.77
11933.0	0.0	3.4	69		17	13.26	4.77
11934.0	0.1	5.2	34		16	13.22	4.75
11935.0	0.0	4.4	41		24	13.17	4.72
11936.0	0.0	1.7	100		33	13.13	4.69
11937.0	0.0	0.0	100		30	13.12	4.69
11938.0	0.0	1.8	100		28	13.12	4.69
11939.0	0.0	3.1	100		23	13.10	4.69
11940.0	0.0	4.7	64		12	13.06	4.69
11941.0	0.0	5.0	59		12	13.01	4.67
11942.0	0.0	4.5	67		12	12.96	4.65
11943.0	0.0	4.6	67		11	12.92	4.64
11944.0	0.0	4.7	75		12	12.87	4.62
11945.0	0.0	4.9	67		12	12.82	4.61
11946.0	0.0	5.2	65		12	12.78	4.59
11947.0	0.1	5.7	61		11	12.72	4.57
11948.0	0.1	5.4	62		11	12.67	4.55
11949.0	0.0	4.1	73		13	12.61	4.53
11950.0	0.0	3.3	100		17	12.58	4.52
11951.0	0.0	3.8	70		16	12.54	4.52

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
11952.0	0.0	3.0	100		23	12.50	4.51
11953.0	0.0	2.0	100		26	12.48	4.51
11954.0	0.0	3.3	100		19	12.46	4.51
11955.0	0.0	4.1	89		20	12.42	4.51
11956.0	0.0	4.3	77		25	12.38	4.50
11957.0	0.0	6.2	67		16	12.33	4.49
11958.0	0.0	6.1	74		11	12.27	4.47
11959.0	0.1	6.0	58		11	12.21	4.45
11960.0	0.0	5.2	69		12	12.15	4.43
11961.0	0.0	4.4	80		14	12.10	4.42
11962.0	0.0	4.6	75		14	12.06	4.41
11963.0	0.0	5.2	65		13	12.01	4.39
11964.0	0.0	4.7	68		13	11.96	4.38
11965.0	0.0	5.0	62		12	11.91	4.36
11966.0	0.0	5.1	60		12	11.86	4.34
11967.0	0.0	4.8	60		13	11.81	4.32
11968.0	0.0	4.4	63		14	11.76	4.30
11969.0	0.0	3.7	77		14	11.72	4.29
11970.0	0.0	3.7	75		15	11.68	4.28
11971.0	0.0	3.7	75		18	11.65	4.27
11972.0	0.0	4.1	65		18	11.61	4.26
11973.0	0.0	4.6	58		14	11.57	4.25
11974.0	0.0	4.8	58		14	11.52	4.23
11975.0	0.0	4.7	56		13	11.47	4.21
11976.0	0.0	4.6	59		12	11.43	4.19
11977.0	0.0	4.4	65		13	11.38	4.17
11978.0	0.0	4.6	61		14	11.34	4.15
11979.0	0.1	5.2	53		11	11.29	4.13
11980.0	0.1	5.9	45		12	11.23	4.11
11981.0	2	8.9	35	0.5	7	11.17	4.07
11982.0	2	9.1	32	0.5	8	11.08	4.00
11983.0	0.1	5.8	43		14	10.99	3.95
11984.0	0.1	5.7	47		13	10.94	3.92
11985.0	0.1	5.6	51		12	10.88	3.89
11986.0	0.0	4.9	58		13	10.83	3.86
11987.0	0.0	3.6	86		15	10.78	3.85
11988.0	0.0	3.5	99		14	10.75	3.84
11989.0	0.0	4.9	63		11	10.71	3.84
11990.0	0.1	5.5	58		11	10.66	3.82
11991.0	0.0	4.9	58		14	10.60	3.80
11992.0	0.0	4.2	68		15	10.56	3.78
11993.0	0.0	4.1	69		15	10.52	3.77
11994.0	0.0	4.4	65		15	10.47	3.75
11995.0	0.0	4.1	66		20	10.43	3.74
11996.0	0.0	4.8	54		19	10.39	3.72
11997.0	0.1	5.4	56		14	10.34	3.70
11998.0	0.1	6.2	56		12	10.28	3.67
11999.0	0.2	6.6	55		11	10.22	3.65

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12000.0	0.3	7.4	56		7	10.15	3.62
12001.0	0.3	7.5	58		7	10.08	3.58
12002.0	0.2	7.1	59		8	10.00	3.55
12003.0	0.2	7.3	60		6	9.93	3.52
12004.0	0.2	7.5	59		6	9.86	3.50
12005.0	0.4	8.2	54		4	9.78	3.46
12006.0	0.4	7.8	51		7	9.70	3.42
12007.0	0.6	8.1	46	0.7	5	9.62	3.38
12008.0	0.7	7.9	41	0.8*	8	9.54	3.34
12009.0	0.2	5.8	41		18	9.46	3.29
12010.0	0.0	3.0	100		26	9.41	3.26
12011.0	0.0	3.5	78		22	9.38	3.26
12012.0	0.1	5.3	51		14	9.34	3.25
12013.0	0.2	6.3	51		10	9.28	3.22
12014.0	0.2	6.7	52		8	9.22	3.19
12015.0	0.2	7.1	54		8	9.15	3.16
12016.0	0.2	7.1	52		10	9.08	3.12
12017.0	0.1	5.3	58		19	9.01	3.09
12018.0	0.1	6.4	55		14	8.96	3.07
12019.0	0.1	5.7	58		13	8.89	3.04
12020.0	0.1	5.7	57		16	8.84	3.02
12021.0	0.1	6.2	57		12	8.78	2.99
12022.0	0.1	5.3	59		13	8.72	2.96
12023.0	0.0	2.9	100		21	8.67	2.95
12024.0	0.0	2.3	100		24	8.64	2.95
12025.0	0.0	3.2	100		21	8.62	2.95
12026.0	0.0	3.5	86		18	8.59	2.95
12027.0	0.0	3.8	75		16	8.55	2.94
12028.0	0.0	4.2	67		14	8.51	2.93
12029.0	0.0	4.5	66		12	8.47	2.92
12030.0	0.0	4.1	72		14	8.42	2.90
12031.0	0.0	3.6	85		16	8.38	2.89
12032.0	0.0	3.8	74		16	8.35	2.89
12033.0	0.0	4.4	65		16	8.31	2.87
12034.0	0.0	4.8	61		12	8.26	2.86
12035.0	0.1	5.3	59		10	8.21	2.84
12036.0	0.0	5.2	62		10	8.16	2.81
12037.0	0.0	4.5	74		11	8.11	2.80
12038.0	0.0	3.7	100		15	8.06	2.79
12039.0	0.0	3.5	100		18	8.03	2.79
12040.0	0.0	3.9	77		18	7.99	2.79
12041.0	0.0	4.1	70		17	7.95	2.78
12042.0	0.0	4.0	67		16	7.91	2.77
12043.0	0.0	4.6	59		13	7.87	2.75
12044.0	0.1	5.0	49		13	7.82	2.73
12045.0	0.1	5.1	49		14	7.77	2.70
12046.0	0.0	3.1	100		21	7.73	2.68
12047.0	0.0	1.7	100		26	7.70	2.68

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12048.0	0.0	0.2	100		38	7.68	2.68
12051.0	0.0	0.0	100		45	7.68	2.68
12052.0	0.0	0.0	100		40	7.68	2.68
12053.0	0.0	0.0	100		46	7.68	2.68
12054.0	0.0	2.4	100		40	7.67	2.68
12055.0	0.0	2.2	100		35	7.65	2.68
12056.0	0.0	2.5	100		31	7.63	2.68
12057.0	0.0	3.2	100		27	7.60	2.68
12058.0	0.0	3.3	100		22	7.57	2.68
12059.0	0.0	2.2	100		23	7.54	2.68
12060.0	0.0	2.9	100		20	7.51	2.68
12061.0	0.0	5.2	70		11	7.48	2.68
12062.0	0.2	6.8	60		6	7.42	2.66
12063.0	0.4	7.9	53		3	7.35	2.63
12064.0	0.4	7.6	51		5	7.27	2.60
12065.0	0.3	7.5	50		5	7.20	2.56
12066.0	0.3	7.1	51		6	7.12	2.52
12067.0	0.2	7.0	51		6	7.05	2.49
12068.0	0.2	6.7	53		8	6.98	2.45
12069.0	0.2	7.0	53		7	6.91	2.42
12070.0	0.2	6.7	54		8	6.84	2.39
12071.0	0.1	5.8	59		11	6.78	2.36
12072.0	0.1	5.8	59		10	6.72	2.34
12073.0	0.1	5.5	59		11	6.66	2.31
12074.0	0.0	5.3	64		13	6.61	2.29
12075.0	0.2	6.6	57		8	6.55	2.27
12076.0	0.1	5.9	56		10	6.49	2.24
12077.0	0.1	5.7	55		10	6.43	2.22
12078.0	0.1	5.4	54		11	6.37	2.19
12079.0	0.0	4.5	65		12	6.32	2.17
12080.0	0.0	4.7	61		12	6.28	2.15
12081.0	0.0	4.8	61		12	6.23	2.13
12082.0	0.0	5.0	60		12	6.18	2.12
12083.0	0.1	5.4	57		12	6.13	2.10
12084.0	0.1	5.8	55		11	6.08	2.07
12085.0	0.2	6.4	52		10	6.02	2.05
12086.0	0.1	6.0	52		10	5.96	2.01
12087.0	0.0	4.8	60		14	5.90	1.99
12088.0	0.0	4.5	68		14	5.85	1.97
12089.0	0.1	5.8	65		11	5.81	1.96
12090.0	0.0	6.0	72		13	5.75	1.94
12091.0	0.0	3.4	100		27	5.69	1.92
12092.0	0.0	0.1	100		39	5.66	1.92
12093.0	0.0	0.8	100		40	5.66	1.92
12094.0	0.0	1.1	100		38	5.65	1.92
12095.0	0.0	1.9	100		40	5.64	1.92
12096.0	0.0	2.9	100		41	5.62	1.92

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12097.0	0.0	3.7	100		43	5.59	1.92
12098.0	0.0	3.2	100		40	5.55	1.92
12099.0	0.0	1.9	100		33	5.52	1.92
12100.0	0.0	2.0	100		24	5.50	1.92
12101.0	0.0	2.0	100		24	5.48	1.92
12102.0	0.0	1.3	100		30	5.46	1.92
12103.0	0.0	2.0	100		33	5.45	1.92
12104.0	0.0	0.5	100		43	5.43	1.92
12105.0	0.0	0.0	100		46	5.43	1.92
12106.0	0.0	3.8	73		33	5.42	1.92
12107.0	0.0	2.4	100		32	5.38	1.92
12108.0	0.0	0.5	100		38	5.36	1.92
12109.0	0.0	2.6	100		36	5.36	1.92
12110.0	0.0	0.7	100		37	5.33	1.92
12111.0	0.0	1.1	100		32	5.33	1.92
12112.0	0.0	4.5	83		20	5.31	1.92
12113.0	0.1	6.3	61		12	5.26	1.91
12114.0	0.1	6.6	58		9	5.19	1.88
12115.0	0.1	5.9	58		12	5.13	1.85
12116.0	0.1	5.2	57		15	5.07	1.83
12117.0	0.1	5.2	56		13	5.02	1.81
12118.0	0.1	5.9	50		9	4.97	1.78
12119.0	0.3	6.8	44		6	4.91	1.75
12120.0	0.2	6.0	43		10	4.84	1.71
12121.0	0.3	6.5	41		9	4.78	1.68
12122.0	0.5	7.3	38	0.6	8	4.71	1.64
12123.0	0.3	6.7	40		8	4.64	1.59
12124.0	0.1	5.3	40		11	4.57	1.56
12125.0	0.0	4.7	63		13	4.52	1.53
12126.0	0.1	4.8	43		12	4.47	1.51
12127.0	0.1	4.7	44		12	4.43	1.48
12128.0	0.1	4.6	44		13	4.38	1.45
12129.0	0.2	5.6	36		10	4.33	1.42
12130.0	0.1	5.5	40		11	4.27	1.39
12131.0	0.1	5.3	37		14	4.22	1.36
12132.0	0.3	5.8	30		18	4.17	1.32
12133.0	0.1	4.8	33		14	4.11	1.28
12134.0	0.1	4.6	34		12	4.06	1.25
12135.0	0.0	0.0	0		0	0.00	0.00
12136.0	0.0	0.0	0		0	0.00	0.00
12143.0	0.0	2.7	100		49	3.95	1.23
12145.0	0.0	4.0	100		42	3.87	1.22
12146.0	0.0	4.1	93		50	3.83	1.22
12147.0	0.0	3.0	100		46	3.79	1.22
12148.0	0.0	2.3	100		44	3.77	1.22
12149.0	0.0	0.6	100		46	3.74	1.22

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12150.0	0.0	0.1	100		49	3.74	1.22
12155.0	0.0	4.2	100		42	3.67	1.22
12156.0	0.0	4.1	100		44	3.63	1.22
12157.0	0.0	4.2	100		35	3.59	1.22
12158.0	0.0	4.3	100		24	3.55	1.22
12159.0	0.0	3.8	100		25	3.51	1.22
12172.0	0.0	0.0	100		47	3.33	1.21
12173.0	0.0	0.0	100		49	3.33	1.21
12174.0	0.0	0.0	0		0	0.00	0.00
12175.0	0.0	0.0	0		0	0.00	0.00
12176.0	0.0	0.0	0		0	0.00	0.00
12177.0	0.0	0.0	0		0	0.00	0.00
12178.0	0.0	0.0	0		0	0.00	0.00
12179.0	0.0	0.0	0		0	0.00	0.00
12180.0	0.0	0.0	0		0	0.00	0.00
12181.0	0.0	0.0	0		0	0.00	0.00
12182.0	0.0	0.0	0		0	0.00	0.00
12183.0	0.0	0.0	0		0	0.00	0.00
12184.0	0.0	0.0	0		0	0.00	0.00
12185.0	0.0	0.0	0		0	0.00	0.00
12186.0	0.0	0.0	0		0	0.00	0.00
12192.0	0.0	0.0	0		0	0.00	0.00
12193.0	0.0	0.0	0		0	0.00	0.00
12195.0	0.0	3.9	56		41	3.13	1.12
12196.0	0.2	5.1	27		31	3.09	1.09
12197.0	0.4	4.8	17		44	3.03	1.05
12198.0	0.0	0.0	0		0	0.00	0.00
12199.0	0.0	0.0	0		0	0.00	0.00
12200.0	0.0	0.0	0		0	0.00	0.00
12201.0	0.0	0.0	0		0	0.00	0.00
12202.0	0.0	4.1	64		16	3.01	1.03
12206.0	0.4	6.5	32		15	2.92	0.98
12207.0	3	8.4	20	0.4	13	2.85	0.93
12208.0	2	7.6	22		13	2.76	0.86
12209.0	0.3	5.7	32		10	2.69	0.81
12210.0	0.0	0.0	0		0	0.00	0.00
12211.0	0.0	0.0	0		0	0.00	0.00
12214.0	0.0	0.0	0		0	0.00	0.00
12218.0	0.0	0.0	0		0	0.00	0.00
12219.0	0.0	0.0	0		0	0.00	0.00
12220.0	0.0	0.0	0		0	0.00	0.00

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12230.0	0.0	0.0	100		45	2.18	0.54
12231.0	0.0	1.8	100		43	2.18	0.54
12232.0	0.0	3.2	100		35	2.16	0.54
12233.0	0.0	4.6	46		23	2.12	0.53
12234.0	0.4	6.4	34		16	2.08	0.50
12235.0	0.0	3.1	99		30	2.01	0.46
12236.0	0.0	2.8	100		45	1.99	0.46
12239.0	0.0	3.7	68		47	1.90	0.44
12241.0	0.0	0.0	100		46	1.87	0.43
12242.0	0.0	2.4	100		29	1.87	0.43
12243.0	0.0	0.0	100		43	1.86	0.43
12253.0	0.0	1.1	100		45	1.70	0.42
12254.0	0.0	3.2	96		32	1.68	0.42
12255.0	0.0	2.1	100		41	1.65	0.42
12256.0	0.0	2.1	100		48	1.63	0.42
12268.0	0.0	1.9	100		34	1.42	0.42
12269.0	0.0	1.3	100		40	1.40	0.42
12271.0	0.0	3.1	100		45	1.38	0.42
12272.0	0.0	0.0	0		0	0.00	0.00
12273.0	0.0	3.5	100		12	1.34	0.42
12277.0	0.0	3.8	65		41	1.26	0.42
12282.0	0.0	0.0	100		42	1.21	0.41
12283.0	0.0	0.1	100		39	1.21	0.41
12284.0	0.0	2.5	100		33	1.20	0.41
12285.0	0.0	2.9	100		33	1.18	0.41
12286.0	0.0	3.5	95		30	1.15	0.41
12287.0	0.0	3.9	59		29	1.11	0.40
12288.0	0.0	3.5	64		35	1.07	0.39
12289.0	0.0	2.4	100		40	1.04	0.38
12290.0	0.0	2.1	100		48	1.02	0.38
12292.0	0.0	3.6	82		45	0.98	0.38
12293.0	0.0	2.1	100		40	0.95	0.38
12295.0	0.2	6.0	43		46	0.90	0.38
12299.0	0.0	3.7	100		38	0.82	0.35
12303.0	0.0	0.8	100		35	0.78	0.35
12304.0	0.0	0.1	100		22	0.77	0.35

Schlumberger

DEPTH FEET	PERM. MD	POROSITY %	WATER SAT. %	HYCARB DENS. GM/CC	CLAY VOLUME %	CUM. POROSITY FEET	CUM. HYCARB FEET
12305.0	0.0	0.1	100		21	0.77	0.35
12306.0	0.0	2.6	100		13	0.76	0.35
12307.0	0.0	3.7	58		10	0.73	0.35
12308.0	0.1	4.6	42		8	0.70	0.33
12309.0	0.2	5.8	33		5	0.65	0.30
12310.0	0.4	6.4	32	0.5	6	0.59	0.26
12311.0	0.4	6.6	35	0.7	6	0.52	0.22
12312.0	0.3	6.4	37		5	0.46	0.18
12313.0	0.3	6.4	38		5	0.39	0.13
12314.0	0.1	5.0	47		13	0.33	0.10
12315.0	0.0	0.0	100		40	0.29	0.08
12316.0	0.0	0.2	100		48	0.29	0.08
12317.0	0.0	0.2	100		44	0.29	0.08
12318.0	0.0	0.6	100		38	0.28	0.08
12319.0	0.0	0.1	100		41	0.28	0.08
12320.0	0.0	0.0	100		49	0.28	0.08
12335.0	0.0	0.5	100		46	0.25	0.08
12336.0	0.0	0.0	100		46	0.25	0.08
12337.0	0.0	0.0	100		44	0.25	0.08
12338.0	0.0	0.0	0		0	0.00	0.00
12339.0	0.0	0.0	0		0	0.00	0.00
12340.0	0.0	0.0	0		0	0.00	0.00
12341.0	0.0	0.0	0		0	0.00	0.00
12342.0	0.0	0.0	0		0	0.00	0.00
12343.0	0.0	0.0	0		0	0.00	0.00
12344.0	90	10.9	7		39	0.25	0.08
12345.0	0.0	4.0	100		21	0.18	0.03
12346.0	0.0	1.5	100		37	0.15	0.03
12355.0	0.0	0.0	0		0	0.00	0.00
12356.0	0.0	0.0	0		0	0.00	0.00
12357.0	1	9.7	47		40	0.08	0.03
12358.0	0.0	0.5	100		49	0.00	0.00

Schlumberger

REPLACE WITH MAP

'gent

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NUTTERS HOLE QUADRANGLE
UTAH
15 MINUTE SERIES (TOPOGRAPHIC)

(DUCHESNE 1:125 000)

(VERNAL 1:125 000)

(See Wilkin Ridge 7½' 1950)

Mapped, edited, and published by the Geological Survey

Control by USGS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1951. Advance field check 1953

Polyconic projection. 1927 North American datum
10,000-foot grid based on Utah coordinate system, central zone

Dashed land lines indicate approximate locations

Unchecked elevations are shown in brown

1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

APPROXIMATE MEAN DECLINATION, 1953

SCALE 1:62500

CONTOUR INTERVAL 40 FEET
CONTOUR INTERVAL ON RIVER SURFACE 5 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
1963
Light-duty ——— Unimproved dirt - - - - -

UTAH
QUADRANGLE LOCATION

NUTTERS HOLE, UTAH
N3945—W10945/15

1953

Wilkin Ridge Unit

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WILKIN RIDGE QUADRANGLE
UTAH—DUCHESNE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

3964 II SW (MYTON SW)
3964 II SE (MYTON SE)
4064 III SW (PARIETTE DRAW SW)
MYTON (U.S. 40) 19 MI.
8 MI. TO UTAH 53
MYTON (U.S. 40) 23 MI.
4063 IV (NUTTERS HOLE) 1:62 500

110°07'30" 575 000m E. 576 577 578 5' 579 R. 16 E. R. 17 E. 581 2'30" 582 2 410 000 FEET 583 584 110°00'
40°00' 610 000 FEET
4427 000m N.
39°52'30" 570 000 FEET 2 390 000 FEET 585 000m E.
57'30" 55'
T. 9 S. T. 10 S. T. 11 S.

Big Wash
White Mule Spring
Horner Knoll
Drill Hole
Wilkin Ridge
Sheep Wash
Peters Desert
EXXON
Pipeline
Twin Knolls
Spring Canyon

Unit outline includes sections 2, 3, 10, 11, 14, 15, 22, 27 & 34 of T10S-R17W.
(See Nutters Hole Topo) 15'

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1959. Field checked 1965

Polyconic projection. 1927 North American datum
10,000-foot grid based on Utah coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Fine red dashed lines indicate selected fence lines

MN GN 0°36' 11 MILS 15½° 276 MILS
UTM GRID AND 1965 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000
1 MILE 1000 0 1000 2000 3000 4000 5000 6000 7000 FEET 1 KILOMETER
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

UTAH
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Unimproved dirt

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—11967

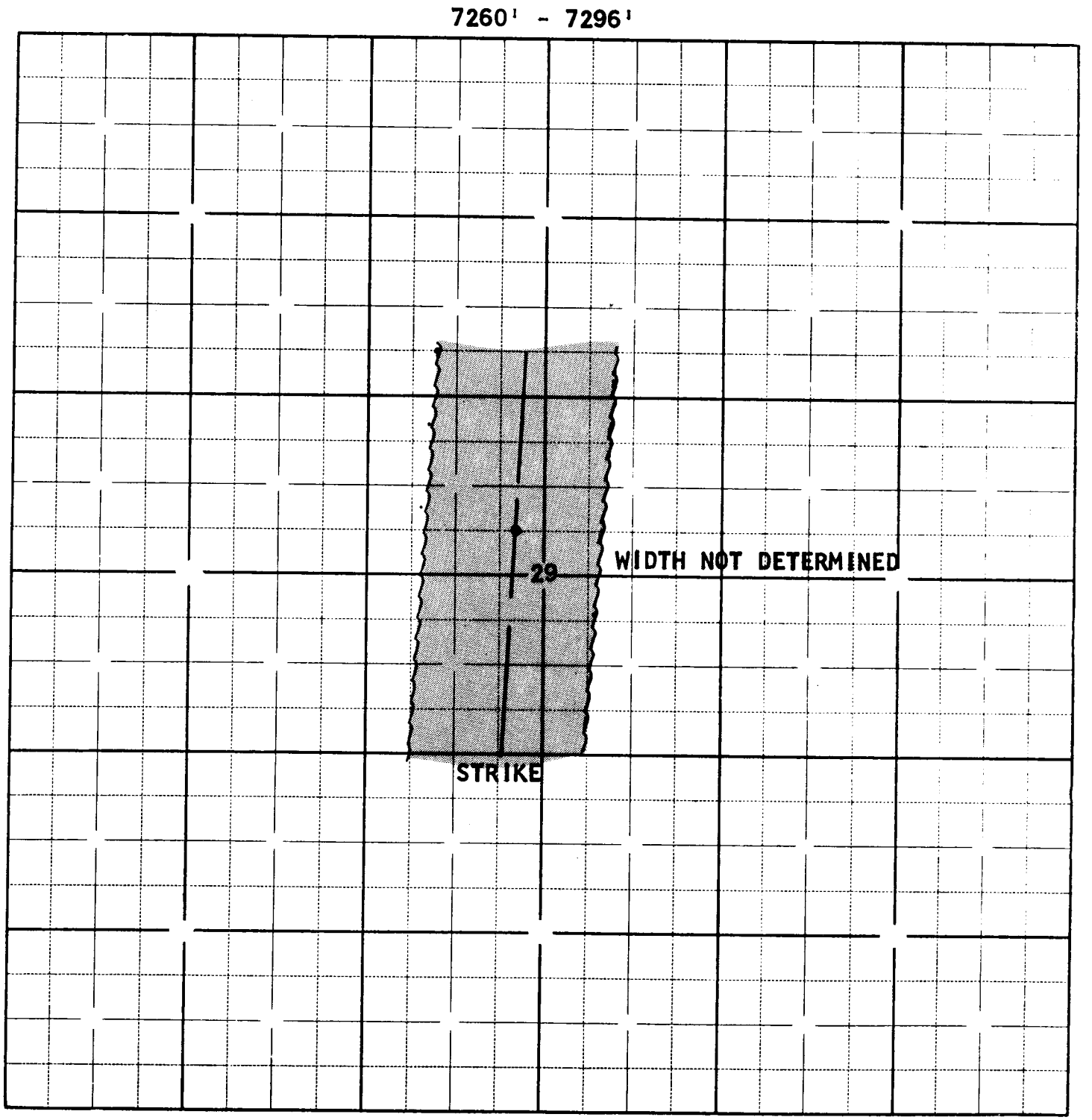
WILKIN RIDGE, UTAH
N3952.5—W11000/7.5

1965

AMS 3963 I NE—SERIES V897

ATTACHMENT 1

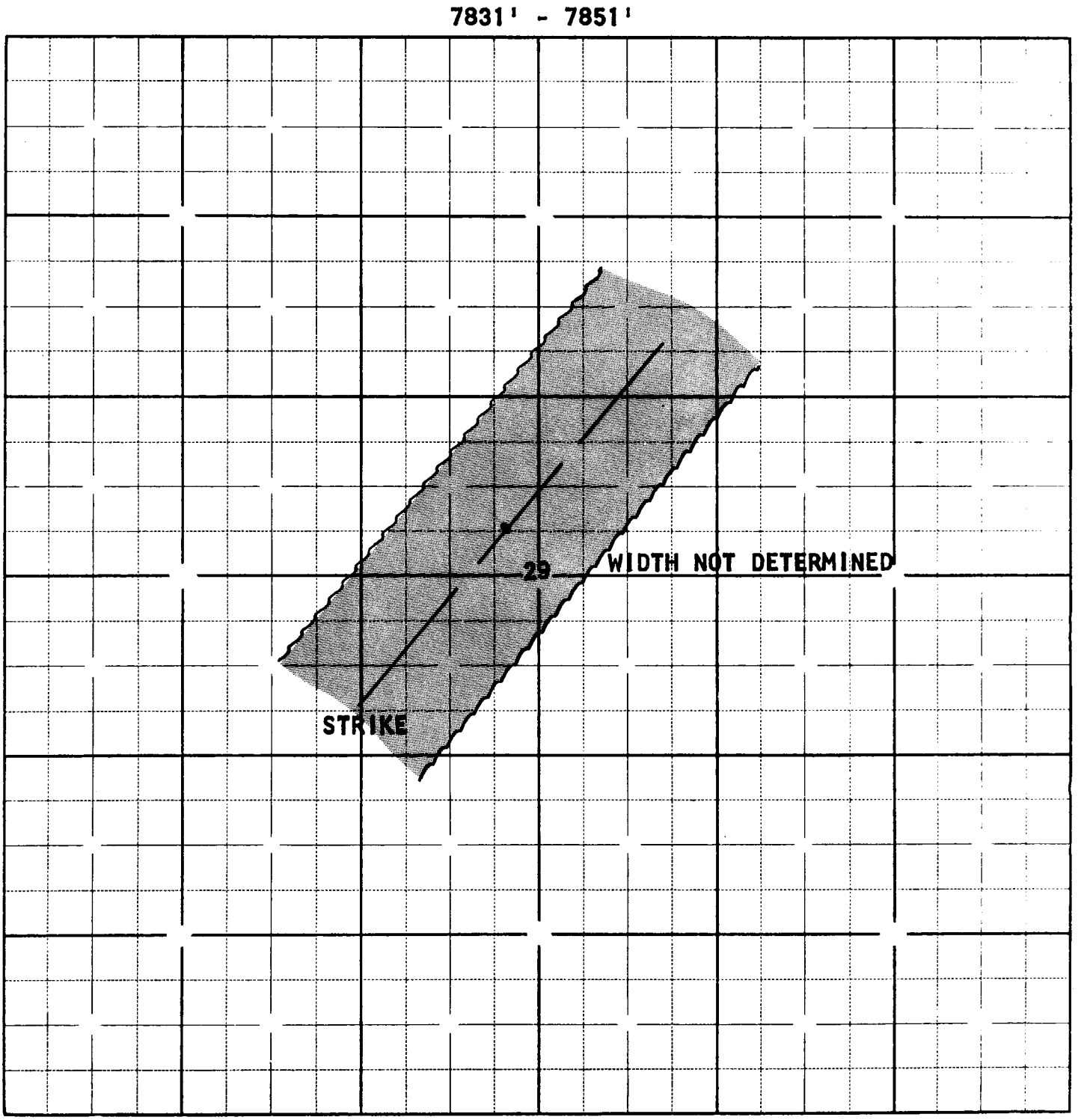
Township 10S, Range 17E, County DUCHESNE, State UTAH,



FORM 53

ATTACHMENT 2

Township 10S, Range 17E, County DUCHESNE, State UTAH,

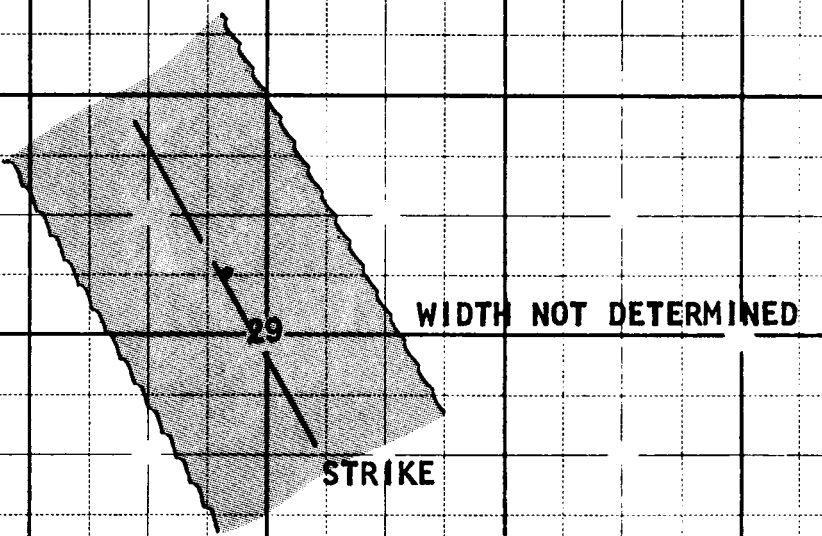


FORM 53

ATTACHMENT 3

Township 10S, Range 17E, County DUCHESNE, State UTAH,

8223' - 8256'

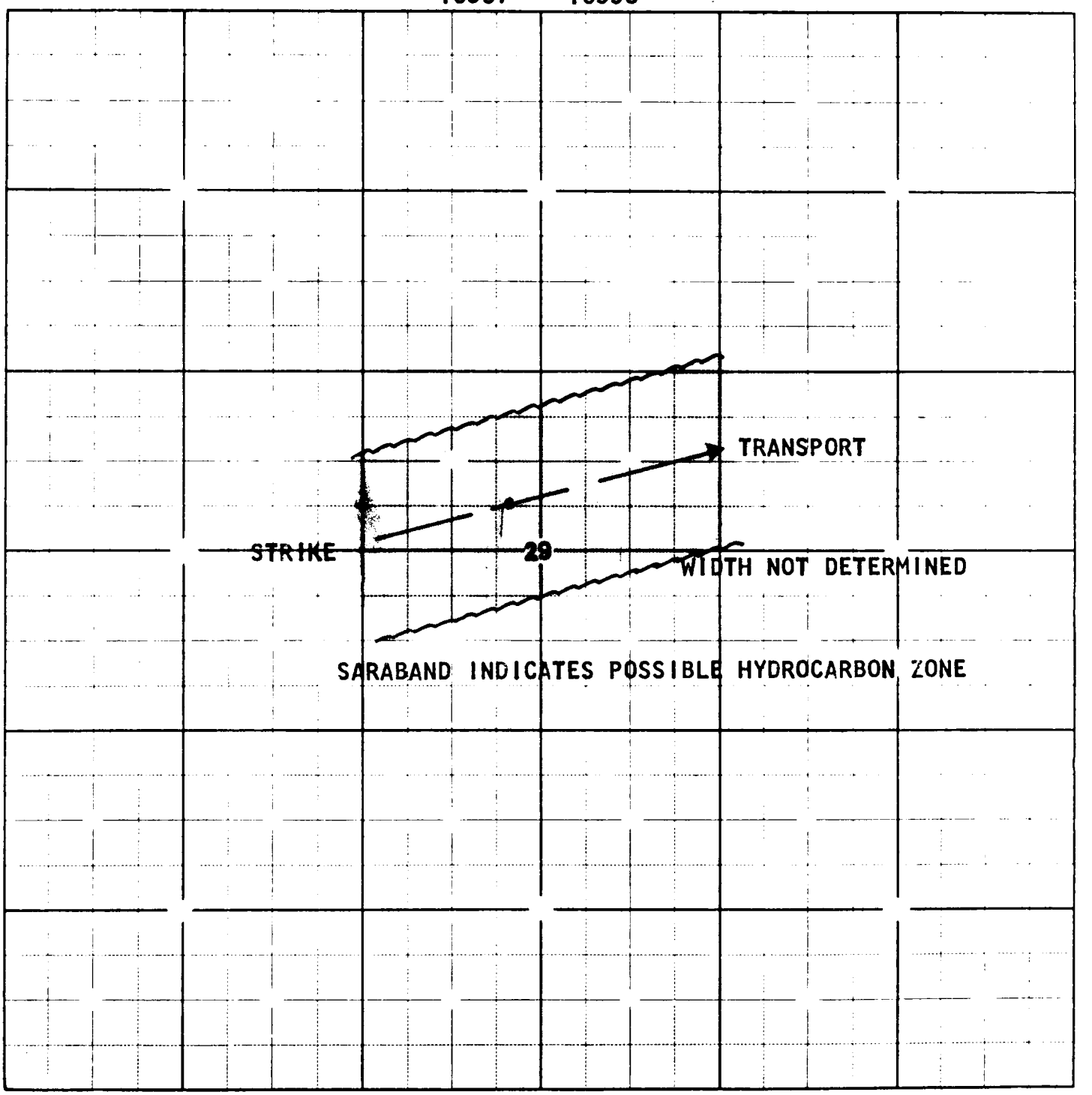


FORM 53

ATTACHMENT 10

Township 10S , Range 17E , County DUCHESNE , State UTAH ,

10957' - 10998'

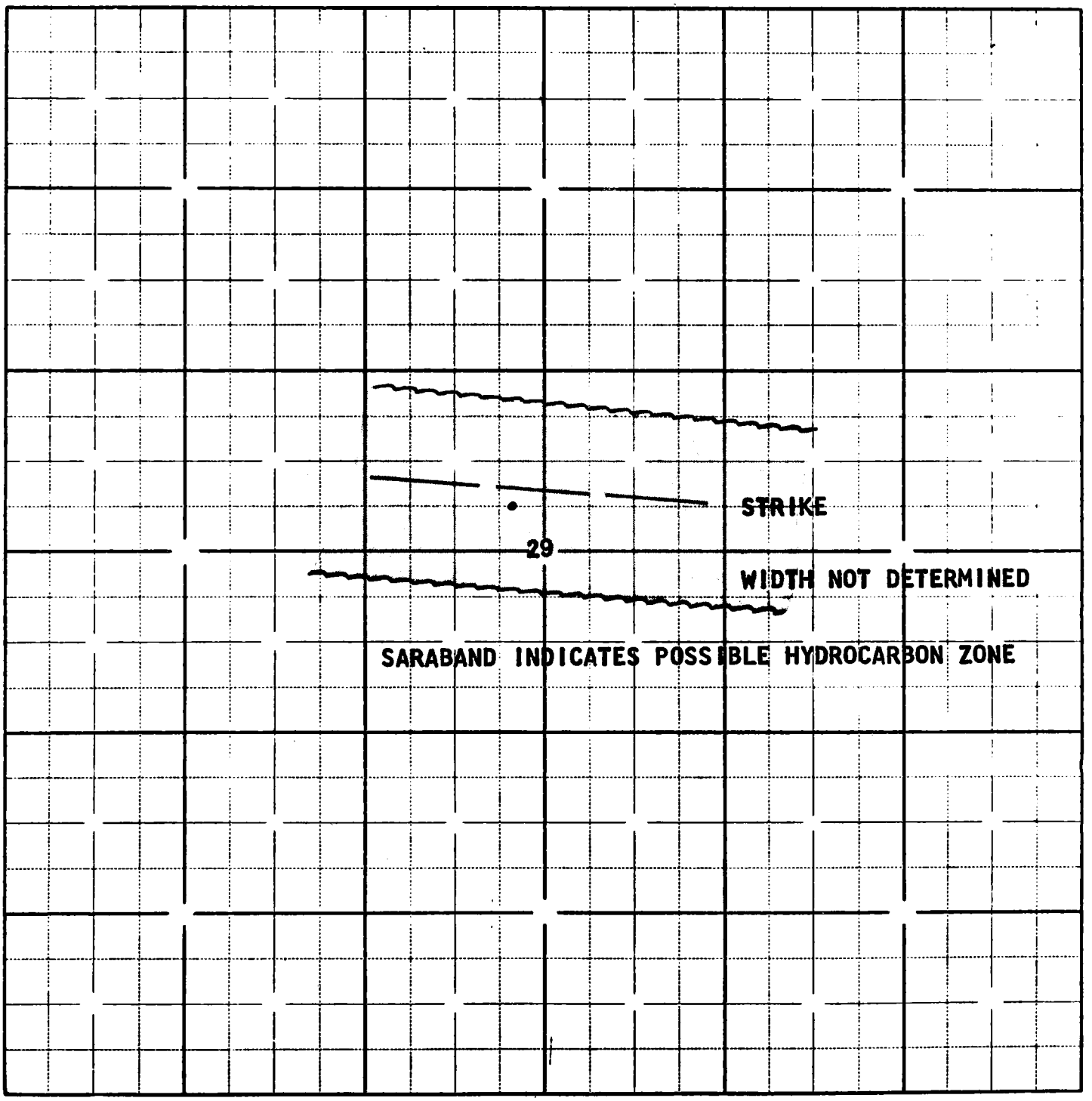


FORM 53

ATTACHMENT 11

Township 10S, Range 17E, County DUCHESNE, State UTAH,

11012' - 11045'

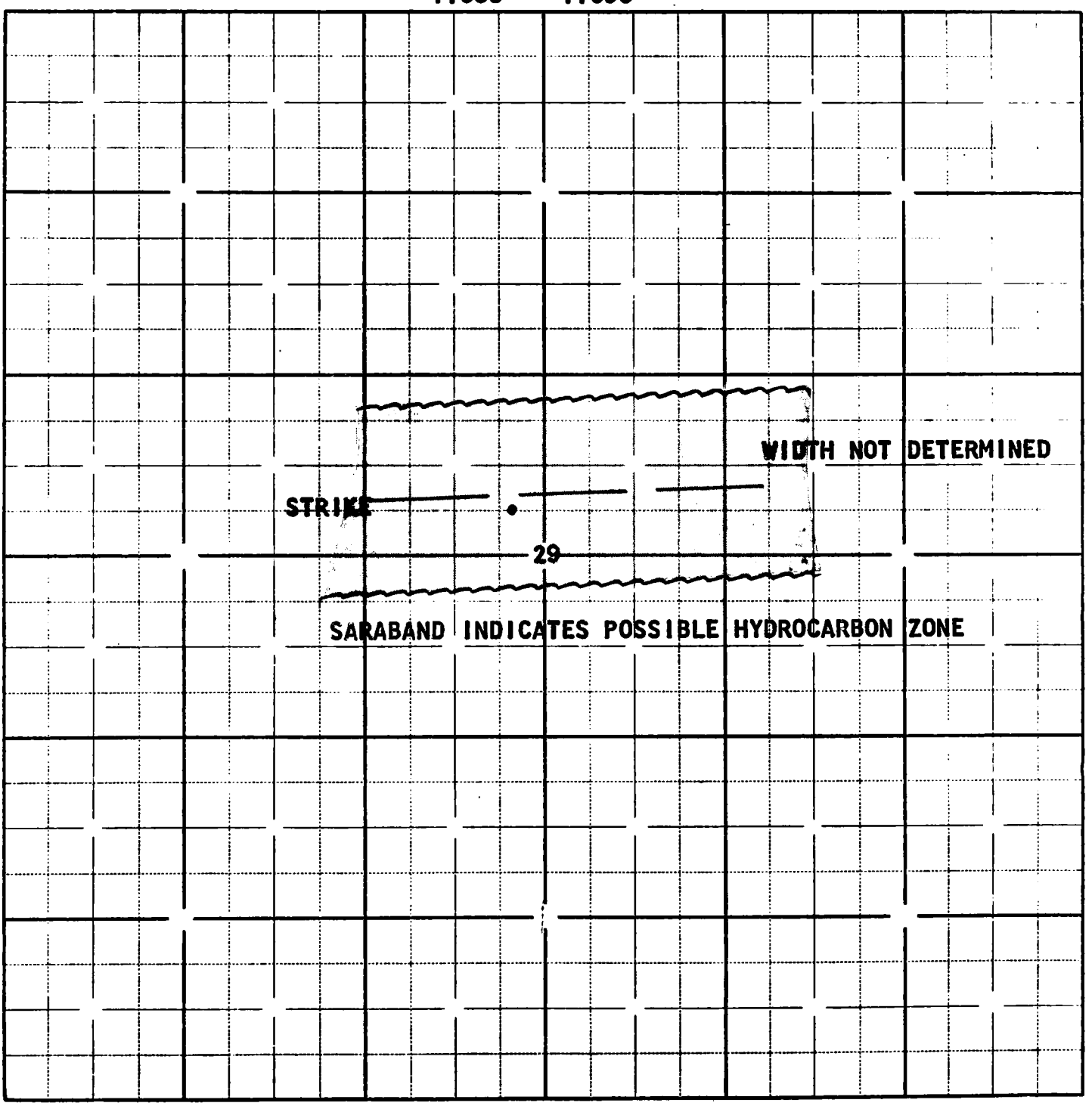


FORM 53

ATTACHMENT 12

Township 10S, Range 17E, County DUCHESNE, State UTAH,

11066' - 11090'

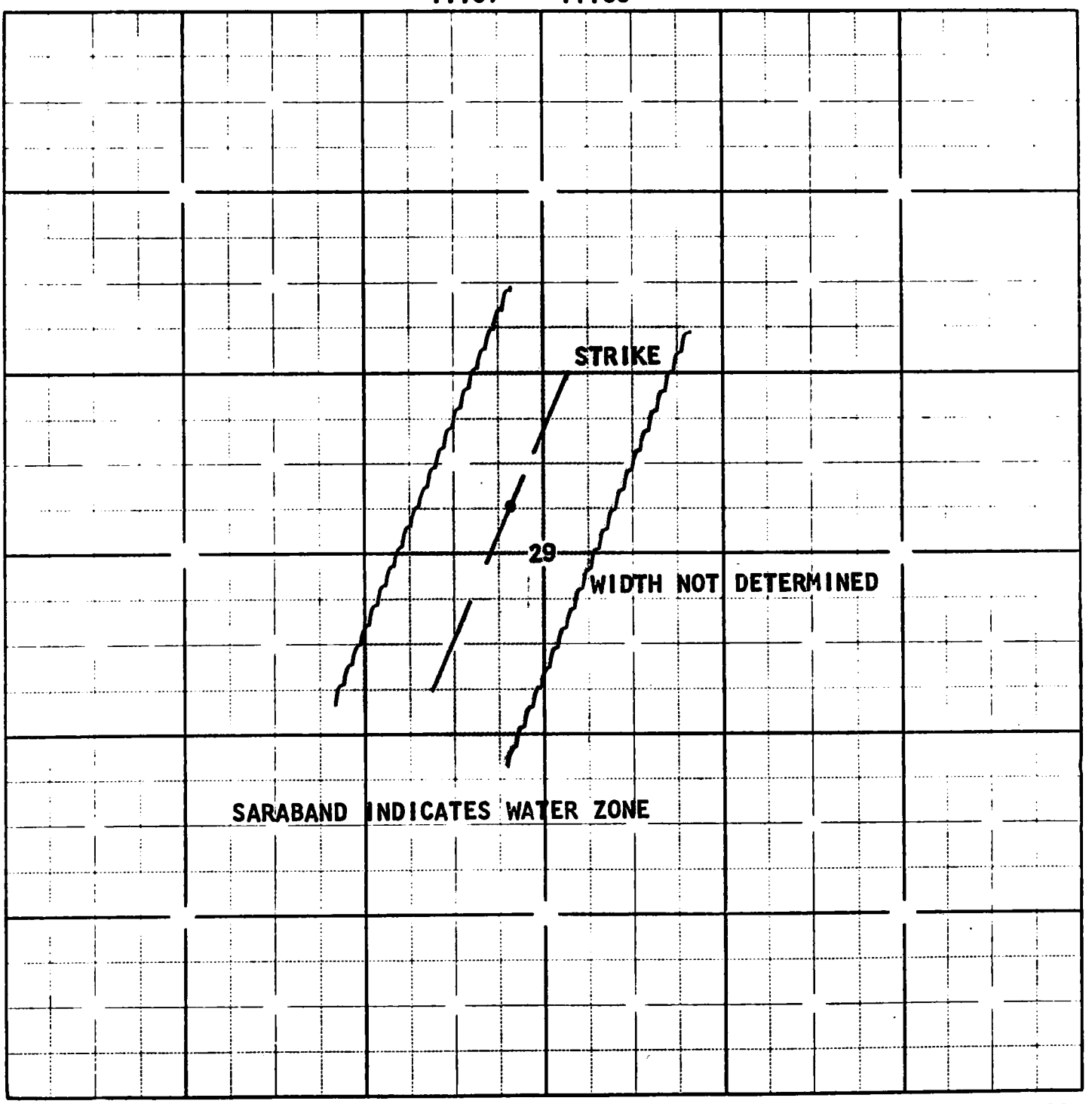


FORM 53

ATTACHMENT 13

Township 10S, Range 17E, County DUCHESNE, State UTAH,

11137' - 11153'

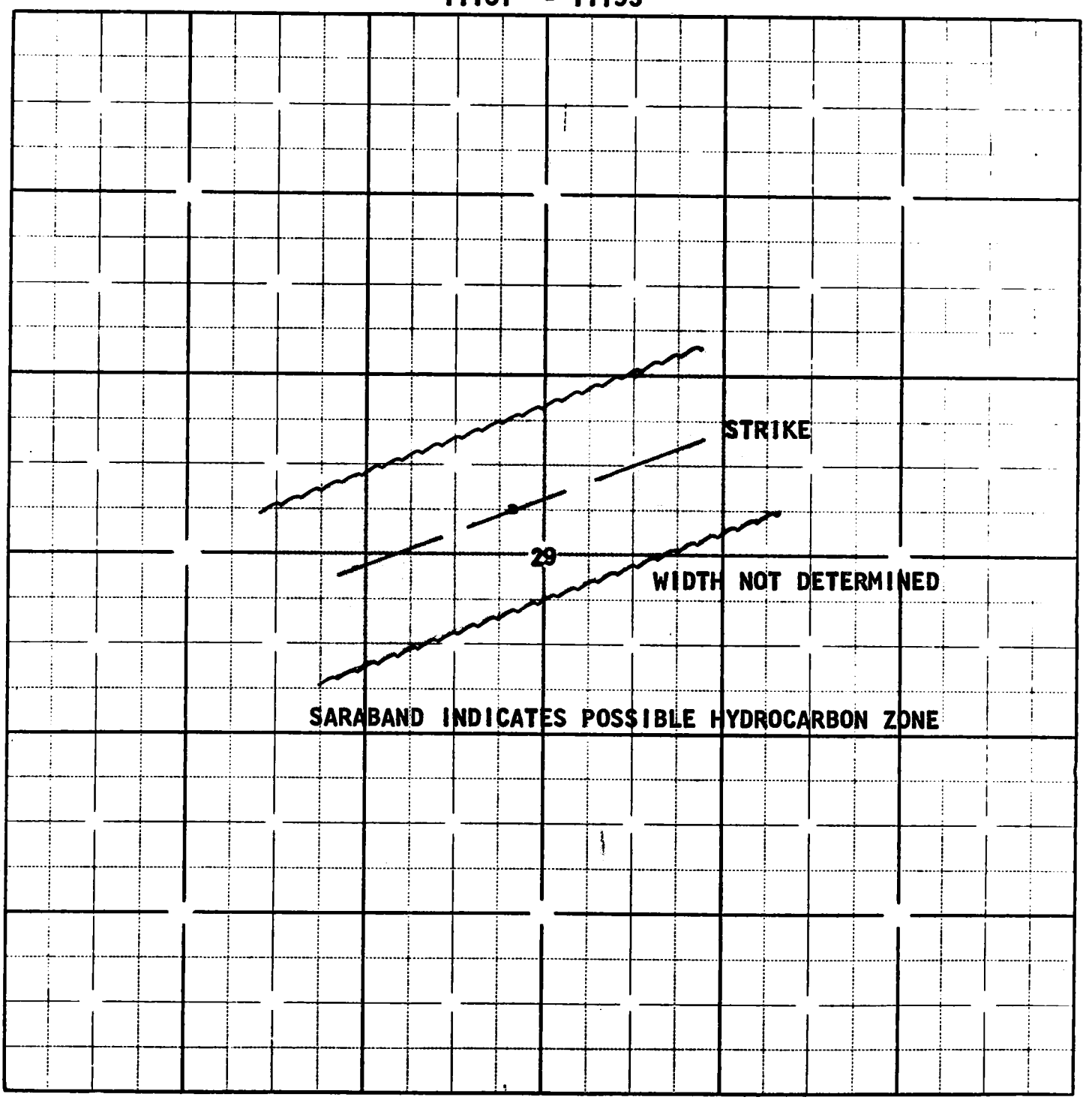


FORM 53

ATTACHMENT 14

Township 10S, Range 17E, County DUCHESNE, State UTAH,

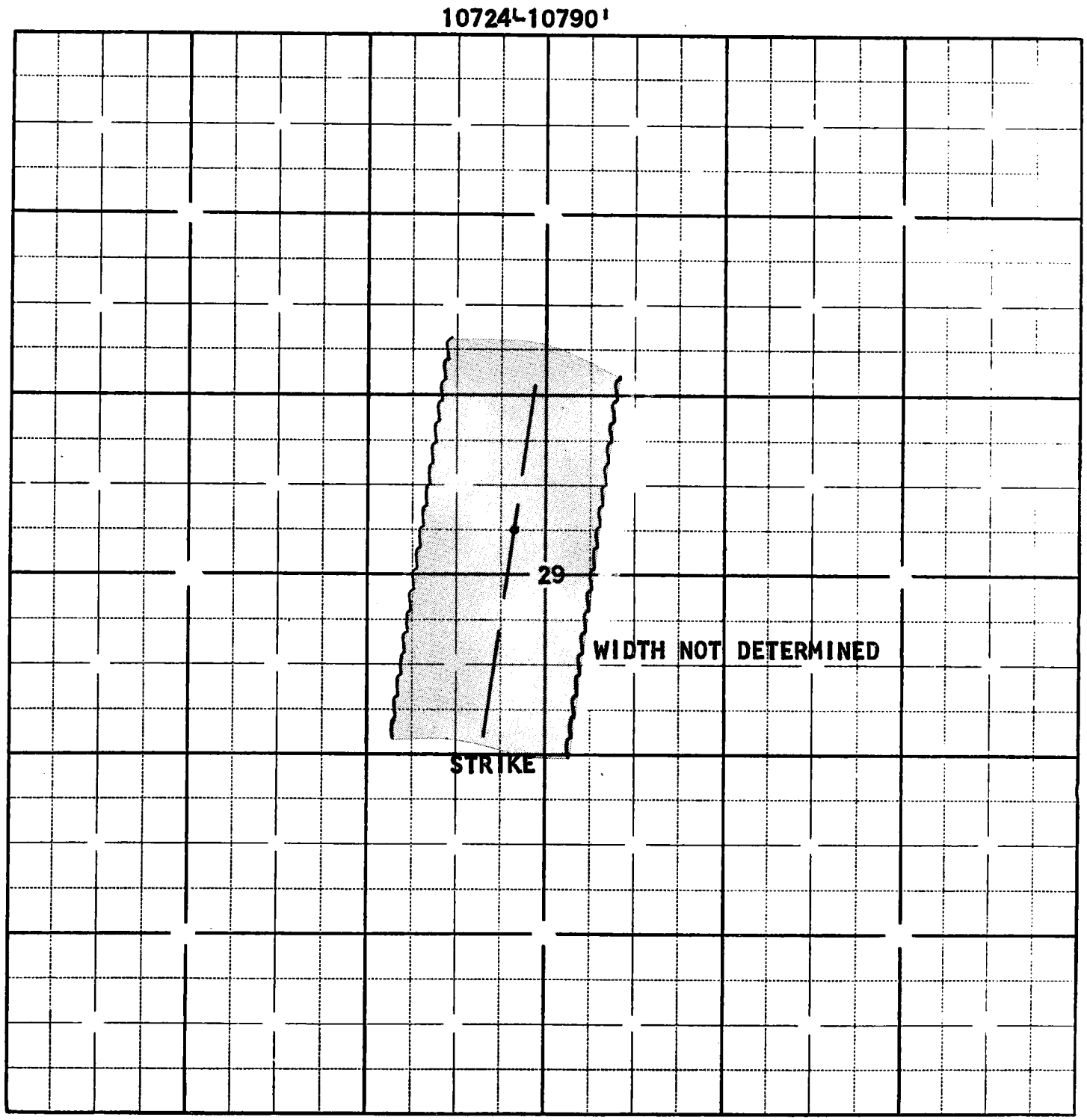
11161' - 11195'



FORM 53

ATTACHMENT 8

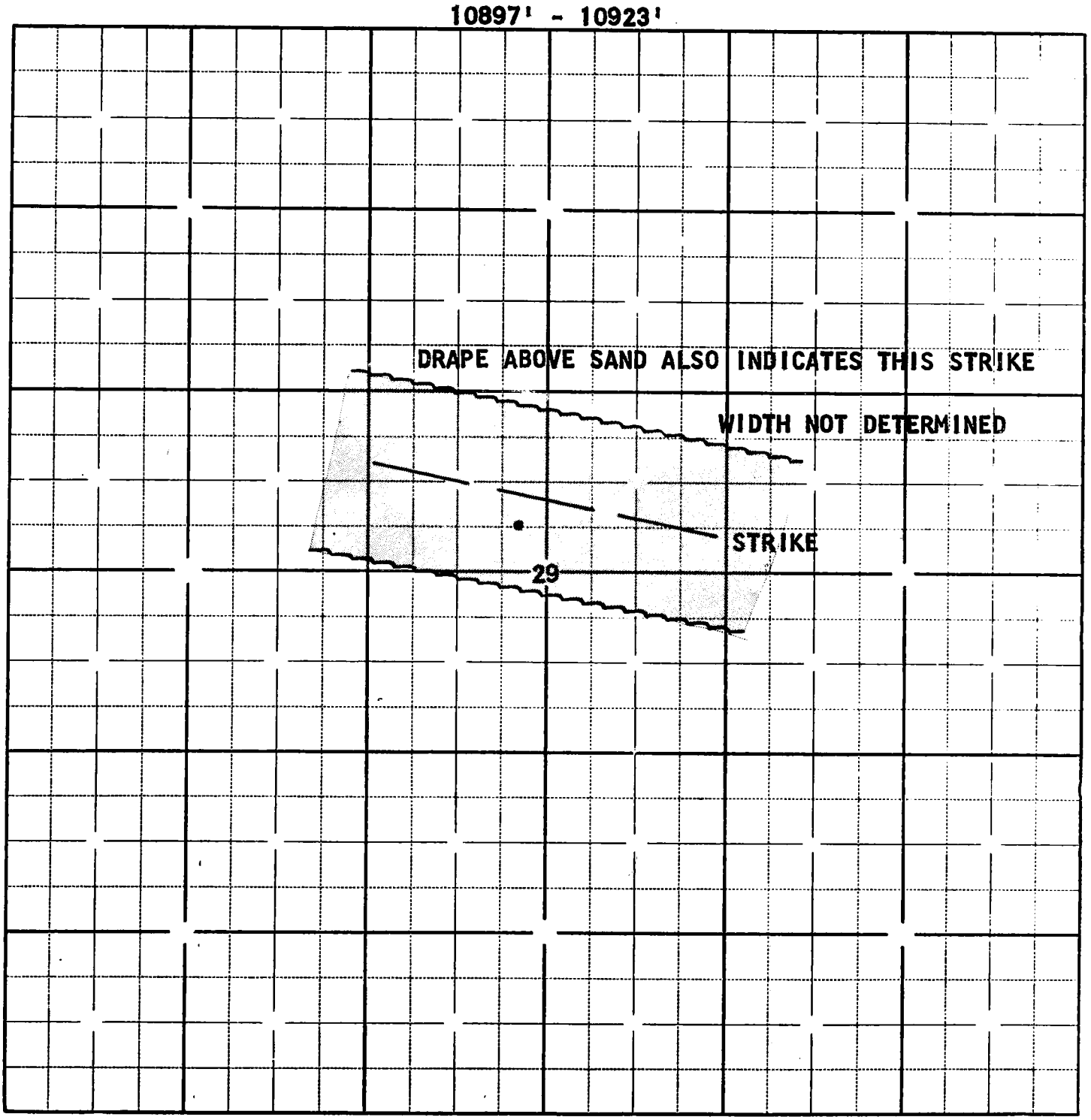
Township 10S, Range 17E, County DUCHESNE, State UTAH,



FORM 53

ATTACHMENT 9

Township 10S, Range 17E, County DUCHESNE, State UTAH,

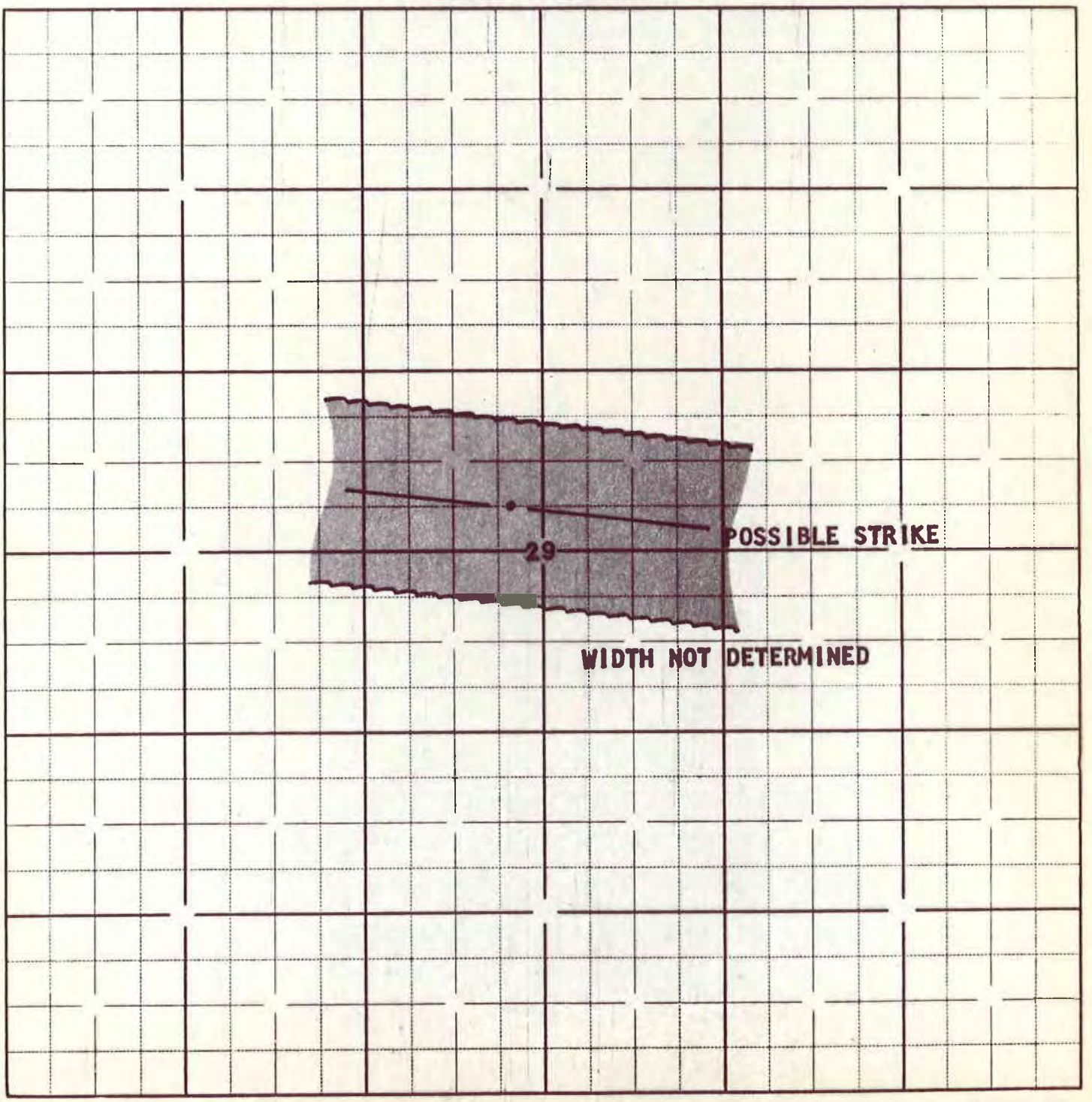


FORM 53

ATTACHMENT 7

Township 10S, Range 17E, County DUCHESNE, State UTAH,

10656' - 10714

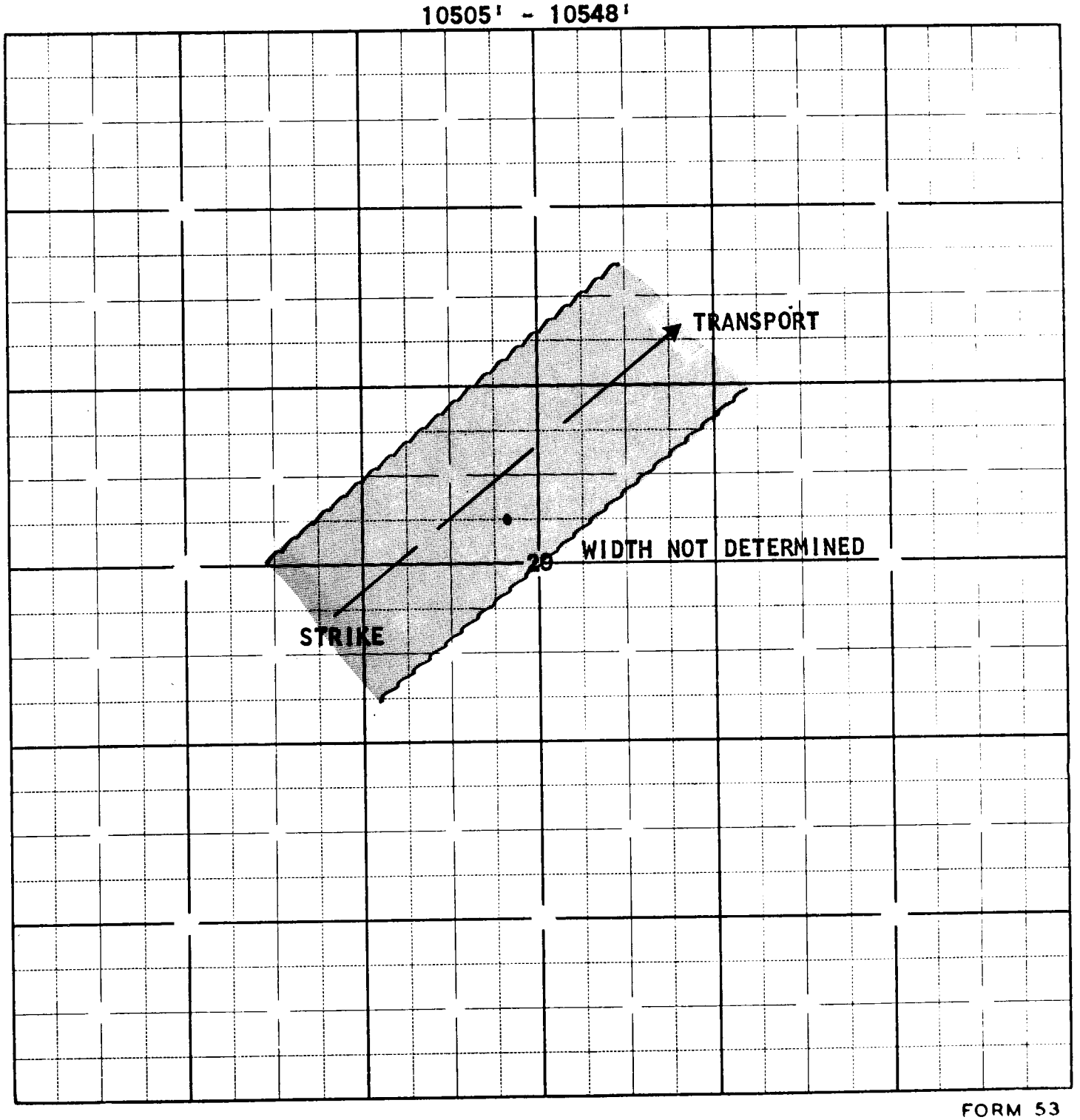


FORM 53

ATTACHMENT 5

Township 10S, Range 17E, County DUCHESNE, State UTAH,

10505' - 10548'



FORM 53

ATTACHMENT 6

Township 10S, Range 17E, County DUCHESNE, State UTAH,

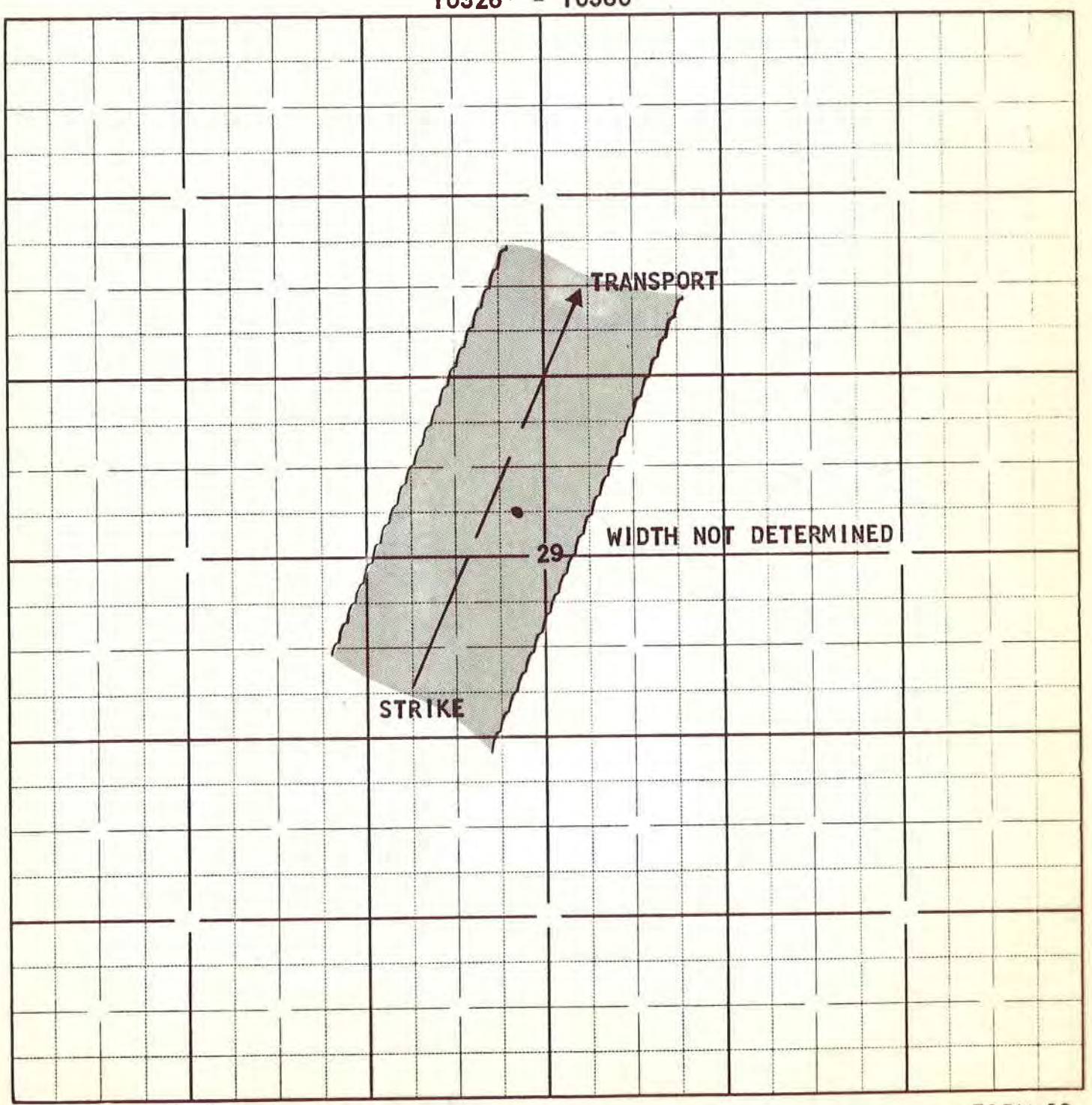
10600' - 10610'

FORM 53

ATTACHMENT 4

Township 10S, Range 17E, County DUCHESNE, State UTAH,

10326' - 10360'



FORM 53

CL1-51 (REV. 1966)

1-Dallas
1-File

CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

Sample #6

MEMBER	Exxon Company, U.S.A.	LAB NO.	14957 REPORT NO.
OPERATOR	Exxon Company, U.S.A.	LOCATION	Sec. 29-10S-17E
WELL NO.	Wilkin Ridge Unit No. 1	FORMATION	
FIELD	Wildcat(Nine Mile)	INTERVAL	
COUNTY	Duchesne	SAMPLE FROM	Water storage tanks on location
STATE	Utah	DATE	January 21,1975 prior to massive frac (1-7-75)

REMARKS & CONCLUSIONS: Pink water, gelled appearance.

Sampled as known gelled KCl frac water.

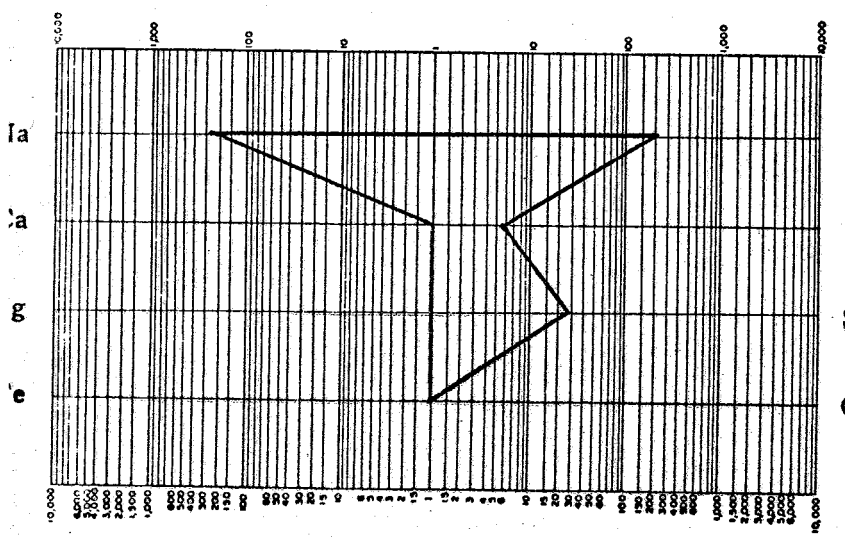
Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	2799	121.76	Sulfate	1300	27.04
Potassium	3915	100.22	Chloride	6700	188.94
Lithium			Carbonate	0	-
Calcium	0	-	Bicarbonate	366	6.00
Magnesium	0	-	Hydroxide		
Iron			Hydrogen sulfide		
Total Cations		221.98	Total Anions		221.98

Total dissolved solids, mg/l	14894	Specific resistance @ 68° F.:	
NaCl equivalent, mg/l	14163	Observed	0.47 ohm-meters
Observed pH	6.3	Calculated	0.46 ohm-meters

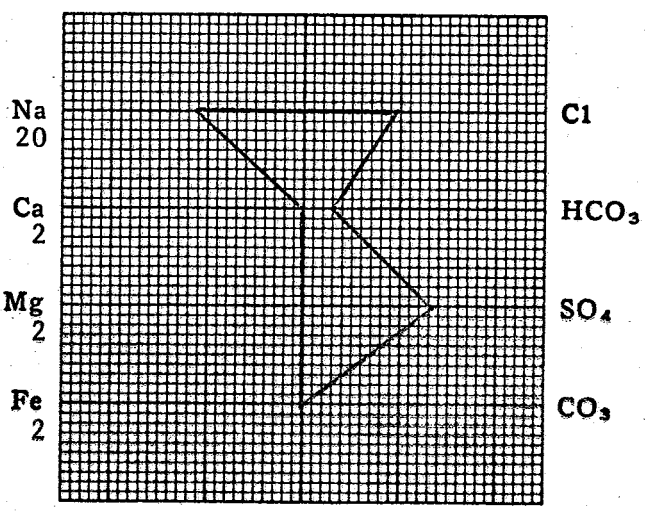
WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC



STANDARD



(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/l=Milligrams per liter. Meq/l=Milligram equivalents per liter

Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

WESTERN EXPLORATION DIVISION
EXXON COMPANY, U.S.A.
TRANSMITTAL FORM

To Rocid Oil From Bill Gaedes

Well Walker Ridge #1 Date 11/23/85

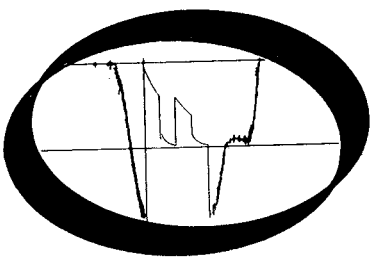
Transmitted herewith are the following for the subject well:

Quantity	Item	Interval	Remarks
	Dual Induction Log		
	Induction Electric Log		
	Sonic Log w/S.P.		
	Sonic Log w/G.R.		
	Density Log w/G.R.		
	Sidewall Neutron		
	Compensated Neutron		
	Continuous Dipmeter		
	Continuous Dipmeter Plot		
	Cont. Dipmeter Printout		
	Proximity-Microlog		
	Perforating Depth Control		
	Cement Bond Log		
	Cased Hole Neutron		
	Temperature Log		
	Synergetic Logs		
	Mudlogs		
	Sidewall Cores		
	Sidewall Core Description		
	Sidewall Core Analysis		
	Conventional Cores		
	Core Description		
	Core Analysis		
	Unwashed Cuttings		
	Washed & Dried Samples		
	Sample Description		
	Canned Cuttings		
2	Water Analysis Report		dated 11/21/85

Receipt Acknowledged Harold E Peterson Date

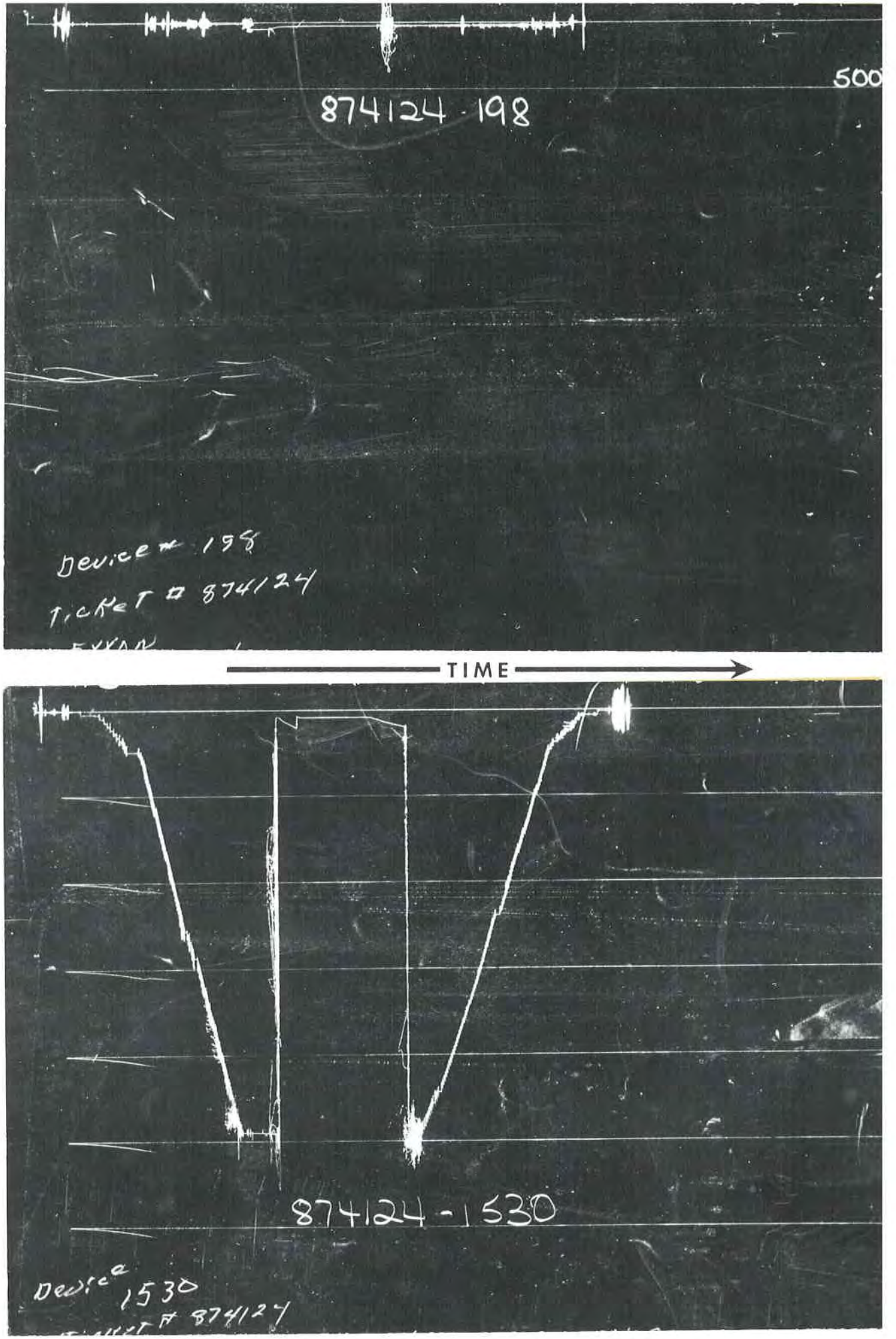
Return signed receipt to: Exxon Company, U.S.A.
P. O. Box 120
Denver, CO 80201
Attn: Mr. John R. Switzer

Formation Testing Service Report

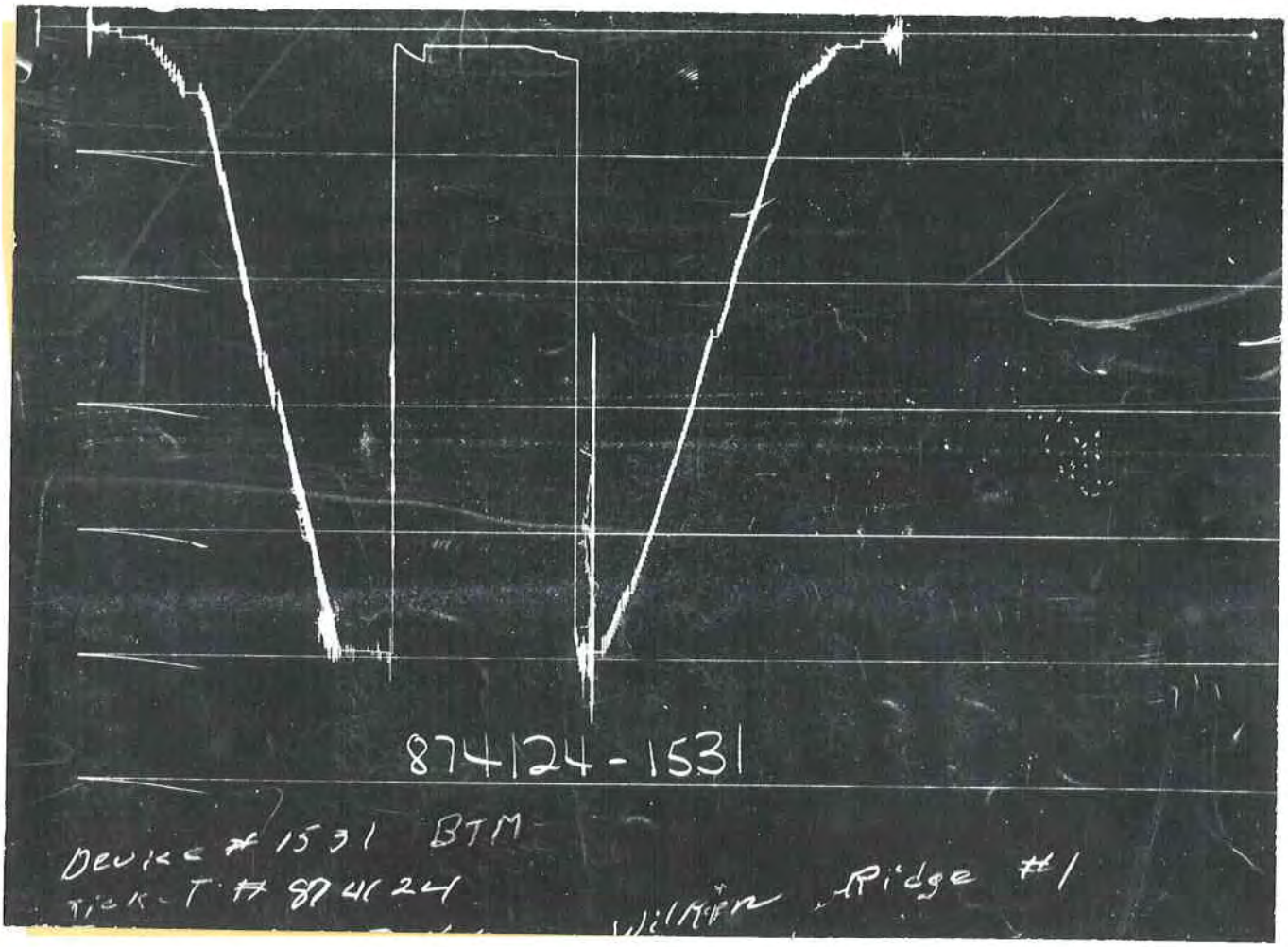


HALLIBURTON SERVICES
DUNCAN, OKLAHOMA

WILKINS RIDGE	1	1	10259' - 10312'	EXXON COMPANY USA
Lease Name	Well No.	Test No.	Tested Interval	Lease Owner/Company Name



Each Horizontal Line Equal to 1000 p.s.i.


874124-1531
Device #1531 BTM
Pick-T #874124
Wilkin Ridge #1

FLUID SAMPLE DATA

Sampler Pressure _____ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas _____
cc. Oil _____
cc. Water _____
cc. Mud _____
Tot. Liquid cc. _____
Gravity _____ ° API @ _____ °F.
Gas/Oil Ratio _____ cu. ft./bbl.

		RESISTIVITY		CHLORIDE CONTENT
Recovery Water	@ °F.			ppm
Recovery Mud	@ °F.			ppm
Recovery Mud Filtrate	@ °F.			ppm
Mud Pit Sample	@ °F.			ppm
Mud Pit Sample Filtrate	@ °F.			ppm

Mud Weight _____ vis _____ cp

Date 10-27-74 Ticket Number 874124
Kind of Job OPEN HOLE TEST Halliburton District VERNAL
Tester MR. COUNTS Witness MR. HYLAND
Drilling Contractor BRINKERHOFF DRILLING COMPANY RIG #26

EQUIPMENT & HOLE DATA

Formation Tested Mesa Verde
Elevation _____ Ft.
Net Productive Interval 10312' - 10259' Ft.
All Depths Measured From Rotary Kelly Bushing
Total Depth 10312' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 537.24' I.D. 2 3/8"
Drill Pipe Length 9586' I.D. 3.826"
Packer Depth(s) 10250' - 10259' Ft.
Depth Tester Valve 10240' Ft.

Cushion TYPE _____ AMOUNT _____ Ft. Depth Back Pres. Valve 10,150 Surface Choke 3/4" - 1/4" Bottom Choke 3/4"

Recovered 90 Feet of Slightly gas cut mud.
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of (READINGS ON FINAL CLOSED IN PRESSURE ON BOTTOM GAUGE # 1531 ARE QUESTIONABLE).

Remarks Tool opened at 07:08 for a 5 minute first flow period, tool slid about 8'. Flow pressure with a weak blow to a medium blow in 3 minutes. Medium blow throughout test. Closed tool at 07:13 for a 30 minute initial closed in pressure. Reopened tool at 07:43 for a 124 minute second flow period with a medium blow on blow hose, opened manifold to flow line with 1/4" gas orfice 1# pressure with a medium blow at 08:10. At 08:20 pressure and blow decreasing to a very weak blow. Closed tool at 09:47 for a 60 minute final closed in pressure period. Pulled tool loose at 10:47; pulled about 8'. Tool stuck. Worked tool about 10 minutes.

TEMPERATURE	Gauge No. 198 Depth: 10144' Ft.	Gauge No. 1530 Depth: 10244' Ft.	Gauge No. Jarred 2 times. Tools loose Depth: 1531 - 10309' Ft.	TIME
	24 Hour Clock	24 Hour Clock	24 Hour Clock	Tool Opened A.M. P.M.
Est. °F.	Blanked Off No	Blanked Off No	Blanked Off Yes	
Actual °F.	Pressures	Pressures	Pressures	Opened Bypass A.M. P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic				4917	4911	4971	4968		
First Period	Flow Initial		51	84	98	143	126	____	____
	Flow Final		51	100	86	112	126	5	5
	Closed in	68	51	230	207	275	257	30	30
Second Period	Flow Initial	40	46	84	94	138	134	____	____
	Flow Final	32	27	100	86	143	134	124	124
	Closed in	32	27	188	199	244	242	60	60
Third Period	Flow Initial							____	____
	Flow Final								
	Closed in								
Final Hydrostatic					4905	4951	4944	____	____

Legal Location Sec. - Twp. - Rng.
Lease Name: WILKINS RIDGE
Well No.: 1
Test No.: 1
Field Area: WILDCAT
Mea. From Tester Valve
Tested Interval: 10259' - 10312'
County: DUCHESNE
State: UTAH
Lease Owner/Company Name: EXXON COMPANY USA

FORM 161-R1—PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 96671 10M 8/74

Gauge No. 198			Depth 10144'			Clock No. 2290			24 hour	Ticket No. 874124				
	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	51	.000		51	.000	46	.000		27					
1	.015	51	.089		51	.411	27	.204		27					
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
Gauge No. 1530					Depth 10244'			Clock No. 4090			24 hour				
0	.000	98	.000		86	.000	94	.000		86					
1	.0034	79	.0101		107	.0803*	88	.200		199					
2	.0068	82	.0202		123	.1472	86								
3	.0102	84	.0303		136	.2141	86								
4	.0136	86	.0404		149	.2810	86								
5	.0170	86	.0505		157	.3479	86								
6			.0606		169	.4150	86								
7			.0707		180										
8			.0808		190										
9			.0909		199										
10			.1010		207										
11															
12															
13															
14															
15															
Reading Interval	1		3			20									Minutes

REMARKS:

* = 24 minutes

SPECIAL PRESSURE DATA

Gauge No. 1531	Depth 10,309'	Clock No. 7139	24 hour	Ticket No. 874124

	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	126	.000		126	.000	153	.000		134					
1	.015	126	.0100		147	.0801*	134	.200		242					
2			.0200		163	.1469	134								
3			.0300		179	.2137	134								
4			.0400		193	.2805	134								
5			.0500		206	.3473	134								
6			.0600		218	.4140	134								
7			.0700		228										
8			.0808		238										
9			.0909		238										
10			.1000		257										
11															
12															
13															
14															
15															

Gauge No.			Depth			Clock No.			hour					
0														
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
Reading Interval			3			20								Minutes

REMARKS:

* = 24 minutes

SPECIAL PRESSURE DATA

TICKET NO. 874124

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5 3/4"	3.00"	.93"	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	9586'	
Drill Collars	6"	2 3/8"	537.24'	
Handling Sub & Choke Assembly				
~~Dual CIP Valve~~ A P Running Case	5"		4.10'	10144'
Dual CIP Sampler	5"	.87"	6.81'	10150'
Hydro-Spring Tester	5"	3/4"	5'	10240'
Drill Collars	6"	2 3/8"	101.41'	
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4.10'	10244'
Hydraulic Jar				
VR Safety Joint	5"	1.00"	2.50'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	5.81'	10250'
Distributor	5"		2.00'	
Packer Assembly	6 3/4"	1.53"	5.81'	10259'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint	5 3/4"	1.50"	4'	
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5 3/4"	4.75"	45.00'	
Blanked-Off B.T. Running Case	5 3/4"	2.50"	4.50'	10309'
Total Depth				10312'

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	——
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
OF_3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF_4	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_S	= Extrapolated Static Pressure	Psig.
P_F	= Final Flow Pressure	Psig.
P_{ot}	= Potentiometric Surface (Fresh Water*)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q_1	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	——
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

GEOLOGICAL FIELD SHEET

STATE & COUNTY Duchesne County, Utah ELEV. 6193' KB

OPERATOR Exxon

FEE OWNER #1 Wilkin Ridge Unit

LOCATION SURVEY SEC.-TWP.-RNG. 29-10S-17E

BEG.: COMP.:

CASING RECORD COMPLETION RECORD

TOPS

SAMPLE SCHLUMBERGER

MISCELLANEOUS INFORMATION

9/3/74 Spudded @ 7:45 pm 9-1-74. Now drilling w/partial returns below 712'.

9/4/74 Drilling below 1162' in the Uinta fm. @ 450'/day. Lost approx. 200 bbls. mud.

9/5/74 Drilling below 1781'.

9/6/74 Drilling below 2208' in the Green River shale w/only a few tarry oil shows. Gas is 5-25 units (avg. 10); current drill rate 205 min/ft.

9/9/74 Fishing. Drilled to 2708', dropped string while making conn. POH w/fish, found shock sub parted leaving bit and near bit assembly in hole. Length of fish 11.82'. Now GIH to rec. fish.

THE M. L. BATH COMPANIES SHREVEPORT—LONGVIEW—LAKE CHARLES BATH-GRAM REG. NO. 512,391 U. S. PAT. OFF. FOR 511—SCOUT REPORT

WELL LOG

BOTTOM	FORMATION
9/10/74	Tripping in hole. Latched on to fish w/overshot, jarred loose and POH. Left ½ orifice ring in hole. Went in hole w/bit and junk basket, rec. junk. Now going in hole w/bit.
9/11/74	Drilling @ 2835' - averaging 15'/hr. Will drill to 3000' - will run logs tonight and set surf. 8 5/8"/ 50% shale, 20% oolitic ls, 30% clc. slts., N/S
9/12/74	Prep. to log @ 3023'. At 2890 lithology changed from ls facies to a shale facies, equiv. to 3000-3100' in MFS Wells Draw #3. Mud gas 0-16 units, avg. 4. Drill rate 6.9-25'/hr., avg. 10. Poor, residual shows in sands @ 2910', 2955' and 3000'.
9/13/74	Rigging up to run csg. Ran DIL and FDC logs. Green River top 1792' (+4401').
9/16/74	Ran and set 8 5/8" csg. @ 3015' w/1700 sx. cement. Nippled up and tested BOP's. Lower ram leaked. Prep. to change out BOP. TD 3023'.
9/17/74	Changed out BOP's and tested; OK. Prep. to drill out within 24 hrs. TD 3023'.
9/18/74	Pipe rams checked out OK, but Hydril leaked; now replacing Hydril for the third time.
9/19/74	Tested Hydril; leaked. Changed out Hydril; prep. to retest.

Form.	Exp. Tops	Actual	Corr.
Uinta (Tertiary)	Surface	1792' (+4401)	43' low to MFS #3 Wells Draw
Green River	1800' (+4395')		
Green River "D"	3115' (+2880')		
*Wasatch (Tertiary)	4815' (+1380')	5130' (+1063')	3' low to MFS #3 Wells Draw
*Mesa Verde (Cret.)	8818' (-2620')	8650' (-2457') **	167' hi to MFS #3 WD
Mancos (Cret.)	11315' (-5120')		

*Primary Objectives **Top may be lowered to 9310'

BOTTOM	FORMATION
9/20/74	Tested Hydril - OK. Tested csg. - OK. RIH; tagged cement @ 2918'; drilled out; tested formation to 550# (equiv. of 12.2 ppg mud). Now drilling ahead @ 3064. TD 3064'.

#1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

9/23/74 Drilling ahead in Green River - sand, sh & sltst. Had poor residual oil shows at 3765-85' and 4000-10' w/20-24 units of gas and dull gold sample fluorescence. TD 4169'

9/24/74 Made trip @ 4211' to change bits. Drilling sand, sh and ls in the Green River below 4225' w/no shows. Left 11 bearings, 3 inserts & 1/3 cone in hole. TD 4225'.

9/25/74 Drilling in the uppermost tongue of the Wasatch below 4607'. Top of the Wasatch Tongue was 4506' (+1687); this is about as predicted. A Wasatch sand, 4515-60' had 20 units of gas.

9/26/74 Drilling below 4927' in sand and sh. with no shows. Now drilling in Green River facies; base of the 1st Wasatch Tongue was @ 4825'.

9/27/74 Drilling below 5265' in the Wasatch w/no gas shows. Top of the Wasatch was at 5130' (+1063'). This is about as expected. The first core will be cut around 6000'.

9/30/74 Drilling below 6025' in variegated shale with no shows. A Wasatch sand, 5870-5920', was circulated out for a possible core, but it had no gas show. Next poss. core point is 6140'.

10/1/74 Drilling Wasatch shale below 6312'. Circulated out a sand @ 6120-31'. The sand was tight and had no shows. Plans are to core the first gas bearing sand.

10/2/74 Drilling below 6555' in Wasatch shale w/no shows. Circulated out a drilling break @ 6533'. Samples were tight sand w/no shows. Well is now 17' high to #3 Wells Draw.

10/3/74 Drilling below 6807' in Wasatch w/no shows. Lithology is varigated shale & siltstone with interbedded grey white to light brown calc. sandstone, very low porosity.

10/4/74 Drilling below 7057' in Wasatch sand & shale w/no shows. Had tight, calcareous sd. @ 6810-50' & 6920-60'. Md. wt. 8.8 ppg

10/7/74 Drilling below 7659' in Wasatch sand & shale w/no shows or gas. Drill rate is 10-12'/hr. (245'/day). Md. wt. 8.9 ppg.

10/8/74 Tripping for a new bit @ 7811' in the Wasatch. Lithology: red-brn sh w/few tight sd. stringers; drill rate 9-10'/hr.; N/S.

10/9/74 Drilling below 7991' (180'/day) in the Wasatch. Had 10' sd. w/no shows 7850-60'; remainder of section was sh. and slts. Md. wt. 9.0 ppg.

10/10/74 Drilling below 8224' in the Wasatch, w/no shows. Lithology red-brn sh. w/tight calcareous, silty sands. Drill rate 10-20'/hr.

10/11/74 Tripping for new bit @ 8339'. Had a drilling brk in a sand from 8250-65'; but no gas show. Will reach a potential core point at base of Wasatch this week-end.

10/14/74 Drilling below 8891' in the Mesa Verde w/NS Lithology: Tight fine gr. sands and gray sh. w/trace of ls. Drill rate: 6-15'/hr.

10/15/74 Drilling below 9075' in the Mesa Verde w/NS. Lithology is alternating tight sand and gray sh. The gas detector is tested daily and is working properly.

10/16/74 Drilling below 9166' in the Mesa Verde w/NS. Lithology is alternating tight sand and gray sh. Mud. wt. 9.0 ppg, made trip for bit @ 9078'.

10/17/74 Tripping for a new bit @ 9316'. Lithology: Alternating tight siliceous sand (8-10% porosity) and gray sh. Sand @ 9280-310' had 2 units gas. Drill rate was only 10-12 min./ft.

10/18/74 Drilling in Mesa Verde @ 9463' w/NS. Maximum 28 units mud gas in coal stringers 9430-40'. Gas detection system checks out OK.

10/21/74 Drilling below 9827' in the Mesa Verde w/no significant shows. Circ. out drilling breaks @ 9602' and 9688'; had max. 5 un. of gas.

#1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

10/22/74 Drilling below 10,012' in the Mesa Verde, w/NS. Lithology is 80% sh with a few scattered sand stringers. Next potential gas sand is expected @ 10,210'. Current background gas is 1-4 un.

10/23/74 Drilling below 10,097' in the Mesa Verde. Circulated out drilling break from 10,084-95'; samples were 20% sand, tight to friable, w/4 un. gas and N/S. Plans are to cut a core and possibly test within the next 200'.

10/24/74 Drilling below 10,250' in the Mesa Verde w/no significant shows. C.O. samples at 10,219-24' and 10,249-255'. Both intervals were 40-50% sand w/3-5 un. gas.

10/25/74 Circulated out drilling break 10,269-73 w/60% sand and 32 un. gas. Cut core #1 10,273-314(41') in 9 hrs. Had mx. 38 un. gas while coring. Now POH. Will test 10,225-314' Saturday.

10/28/74 Depth 10,306 - coring - began coring @ 10,273'. Drilling brk 10,269-73 (32 un. gas).
Core #1 10,273-312; rec. 37'
10' carb sh, 7' shly sd, 10' f-m sd w/gd odor, 1½" carb sh, 2' v fg shly sd, remainder brkn sd & sh.
DST #1 10,279-312
Iop 5 min., w/gd blow, SI 30, Op 120, gd blow dec to wk, SI 60
Rec. 90' GCM w/no gas to surf.
IH 4971
IF 143-112
ISI 275
FF 138-143
FSI 244
FH 4951
Drilled to 10,320; drilling brk 10,316-20 130-170 un/gas - drilling ahead.

Drilling below 10,320' in the Mesa Verde w/good gas shows. Ran DST #1 from 10,259-312'; rec. 90' gas cut mud w/no gas to surf. Circ. out 170 un. gas @ 10,316-20' after a good drilling break up to 27'/hr.

10/29/74 Drilling below 10,486' in the Mesa Verde w/no significant shows. Lithology is predominantly shale and siltstone below 10,370'.

10/30/74 TD 10,740 - prep. to run DST #2 (10,550-10,740) Gas shows from 10,500 to 10,740 (40-210 units gas) - est. 80' net sd.

10/31/74 TD 10,740 - lost circ. Mixing mud and lost circ. material - Md. wt. 9.2, V 45, WL 12.8 cl. 150 - prep. to core #2

11/1/74 TD 10,758' coring - 18' cut - 560 un. trip gas Expect to have core out of hole this afternoon. Md. wt. 9.1

11/2/74 10,803 drilling - Core #2 10,740-797 Rec. 57' ss w/scat. flour @ 750-772 Av. 6% por, Sw 55%, no oil in core analysis. Md. wt. 9.2, V 44, WL 12.4

11/3/74 10,991' drilling - drilling brk 10,970-990' 9'/hr-27'/hr - max. 350 units gas - 60% sd - 40% silts. - sd vfg, tite, calc. Md. wt. 9.1, V 38, WL 13.5

10/4/74 11,043 tripping - trip gas 896 units Gas show 11,000-11,030 - av. 200 units gas sd and silt - Md. 9.2, V 42, WL 13.3

11/5/74 11,150 circ., prep. to trip Md. wt. 9.3, V 46, WL 12.5 - sh and slt w/thin sand stringers - drilling brk 11067-74 (gas kick of 200 un.)

11/6/74 11,185 circ.; prep. to trip for core #3 Sd @ 11,150-185 vfg, well sorted, silc cement. Had 70-100 un. gas - Md. 9.3, V 40, WL 12.7

11/7/74 11,221 coring (core #3) Begin coring @ 11,185. Have cut 36'. While coring had 48-80 units mud gas. Poor samples; had 960 un. trip gas. Md. 9.4, V 40, WL 12.7

11/8/74 11,296' drilling - cut core #3 11,185-11,235 (50' - rec. 45' sh w/2-3' slts, N/S) Md. 9.4, V 41, WL 12.1

#1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

11/11/74 TD 11,509' driller - 11,521' logger
Tripping for new bit. Ran DIl, Dens-Neut, Sonic, Dipmeter; top Mesaverde 9310'.

11/12/74 TD 11,608' drilling - circ. out drilling break @ 11,550'. Break from 13-30'/hr. Circ. up sand with 4-500 un. gas. Venting gas through gas separator. 3½' flare while drilling. Md. 9.5 in - 9.1 out
Plans are to drill well to TD without additional cores or tests.

11/13/74 11,715' - raising mud weight from 9.8 to 10.3. Coming out of hole for new bit.
Background gas 1900 un. while circ.
Prep. to come out of hole.

11/14/74 11,715' - circ. Building mud weight to 11# per gallon. Attempting to pull out of hole to change bits. 960 un. background gas.

11/15/74 TD 11,715' circ. Mud weight in 11.6 - out 10.8
Raising mud weight to 12# per gallon.
Attempting to pull out of hole.
Background gas 400 un.

11/16/74 11,715' circ. Prep. to trip for new bit.
sd, slts, sh; Md. 12.4 in - out 12.0
V 66, WL 11.7, ph 11, cl 220 ppm
12 hrs. circ., 12 hrs. tripping.

11/17/74 11,725' drlg., sd & sh, Md. 12.2, V66, WL 11.7, ph 11, cl 220 ppm
Bit # 26 7 7/8" Smith F4 in @ 11,715'
Made 10' in 2 hrs.
2 hrs. drilling time in past 24 - 10'
22 hrs. tripping & circ.

11/18/74 11,796' drlg.; sd, slst, sh
Md. 12.2, V 66, WL 11.5, ph 11.6, cl 250 ppm
Bit in @ 11,715 - made 81' in 26 hrs.
24 hrs. drlt 71'.

11/19/74 11,823' tripping - back on bottom by now.
Tight 70-100% vfg sds. Md. 12.1, V 48, WL 11.6
ph 11.6 - Bit #26 7 7/8" Smith F4 in @ 11,715 -
made 108' in 36 hrs. - Bit #27 in @ 11,823'
Time in last 24 - 6 hrs. drlt. 29'
18 hrs. tripping and circ.

11/20/74 11,858' drilling - sd tite, calc.
Md. 12.0, V 58, WL 11.8, cl 250 ppm
Bit #27 7 7/8" HTC in @ 11,823' - made 35 in 173/4
113/4 - 25' - 8 tripping in hole
4¼ circ. drilling brk - drilling brk 11,842-11,856
fr. 2½'/hr. to 6'/hr. - 46-96 units gas.

11/21/74 11,919 tripping for new bit; sd & sh
Md. 12.3, V 47, WL 11.7, ph 11.4, cl 250 ppm
Bit #27 7 7/8" HTC in @ 11,823 - made 96 in 28¼
16½ hrs. drlt 61' - 4 3/4 tripping - 2 3/4 circ.

11/22/74 11,960 drilling - 80% sandstone
Md. 12.2, V 45, WL 12.2, ph 11.4, cl 250 ppm
14-34 un. background gas - 828 un. trip gas.
Bit # 28 J55R in @ 11,919; made 41' in 9 3/4
9 3/4 drilling time 41'
9 tripping; 5¼ other

11/23/74 12,042' circ.; prep. to trip
Md. 12.2, V 44, WL 12, ph 11.6, cl 250 ppm
20½ drlt. 82'; 3½ other

11/24/74 12,042' circ. on bottom after trip
Md. 12.2, V 44, Wl 12, ph 11.6, cl 250 ppm
13¼ tripping; 10 3/4 other

11/25/74 12,096'; Md. 12.2, V 42, WL 12.9, ph 11.1, cl 250
Straight hole test misrun
Bit #29 J55R in @ 12,042 - made 54' in 17 hrs.
17 drlt 54'; 7 other.

11/26/74 12,103' circ. bottoms up after trip.
Sd., silt, sh; Md. 12.2, V 41, WL 12.2, ph 11.1,
cl 250 ppm - Bit #29 7 7/8 SMF4 in @ 12,042 -
made 61' in 18 - Bit #30 7 7/8 SMF4 in @
12,103 - 1 hr. drlt. 7'; 12 tripping;
5 circ.; 6 attempt straight hole test & other.

11/27/74 12,136' tripping - sd & sh - Md. 12.2, V 43,
WL 12.2, ph 11.3, cl 250 ppm
Bit #30 7 7/8 SMF4 in @ 12,103 - made 33 in 9
Bit #31 7 7/8 SMF4 in @ 12,136
9 hrs. drlt 33'; 10 tripping; 4 3/4 circ.;
¼ rig service.

* #1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

11/29/74	12,308 drilling; sd - Md. 12.1, V 45, WL 11.2, ph 11.4, cl 350 ppm Bit #31 in @ 12,136 - made 172' in 43½ hrs. 23 3/4 hrs. drlt. 92' ¼ rig serv.
11/30/74	12,390 circ.; sd - Md. 12.1, V 35, WL 11.3, ph 11.3, cl 250 ppm Bit #31 in @ 12,136 - made 254' in 65 hrs. 21½ hrs. drlt 82'; ¼ rig serv.; 2¼ circ.
12-1-74	12,390 circ. out & cond. mud Md. 12.3, V 45-67, WL 12.1-12.3, ph 10.5, cl 850 ppm - o hrs. drlt; 3/4 circ.; 8¼ WO degasser; 7¼ circ.; 7 circ.
12/2/74	12,390 tripping out to log - Md. 12.8, V 51, WL 12.1, ph 10.8, cl 1100 ppm 0 hrs. drlt; 18½ circ.; 5½ tripping.
12/3/74	12,390 logging - Md. 12.8 21 hrs. logging; 3 tripping.
*11/28/74	12,216 tripping in hole - Md. 12.1, V 42, WL 13.2, ph 11.2, cl 250 ppm Bit #31 in @ 12,136 - made 80' in 19 3/4 hrs. 19 3/4 hrs. drlt 80'; 2½ trips; 1 3/4 other.
12/4/74	12,390 fishing - 10 hrs. trips; 14 hrs. fishing for sidewall core, gun stuck @ 12,003. Went in w/side door, overshot to 7000'; tool remained stuck; cable broke; rec. 4000' of cable; POH; will fish for 8000' of line and core gun.
12/5/74	12,390 - 24 hrs. fishing. Went in hole with spear to 4850'; POH. Rec. fish; left one side-wall core bullet in hole - rigging down to Schl.
12/6/74	12,390' - washing and reaming to bottom. Plans are to condition hole and run 5½" casing this weekend.
12/7/74	12,390 washing and reaming to bottom. Md. 12.7, V 46, WL 11.3, ph 11.2, cl 1150 24 hrs. washing and reaming to bottom.

12/8/74 12,390 circ. and cond. hole to run csg.
Md. 12.6, V 46, WL 12.5, ph 11.2, cl 1200
24 hrs. washing to bottom; circ. & cond. hole;
laid down drill pipe & drill collars; rigged
up to run 5½" csg.

12/9/74 Running 5½" csg. 24 hrs. rigging up to run
csg; running 201 jts. of 5½" csg. to 8500'.

WESTERN EXPLORATION DIVISION
EXXON COMPANY, U.S.A.
TRANSMITTAL FORM

To Placid Oil Company From Bill Grieves

Well Wilkin Ridge Unit Date January 20,1975

Transmitted herewith are the following for the subject well:

Quantity	Item	Interval	Remarks
	Dual Induction Log		
	Induction Electric Log		
	Sonic Log w/S.P.		
	Sonic Log w/G.R.		
	Density Log w/G.R.		
	Sidewall Neutron		
	Compensated Neutron		
	Continuous Dipmeter		
	Continuous Dipmeter Plot		
	Cont. Dipmeter Printout		
	Proximity-Microlog		
	Perforating Depth Control		
	Cement Bond Log		
	Cased Hole Neutron		
	Temperature Log		
	Synergetic Logs		
	Mudlogs		
	Sidewall Cores		
	Sidewall Core Description		
	Sidewall Core Analysis		
	Conventional Cores		
	Core Description		
	Core Analysis		
	Unwashed Cuttings		
	Washed & Dried Samples		
	Sample Description		
	Canned Cuttings		
2 each	2" and 5" final log		
2	final pressure log		
2	Gas Analysis Report		[illegible]

Receipt Acknowledged [illegible] Date [illegible]

Return signed receipt to: Exxon Company, U.S.A.
P. O. Box 120
Denver, CO 80201
Attn: Mr. John R. Switzer

EXXON COMPANY
Wilkin Unit #1
Duchesne County, Utah
(Acreage Contribution)

INDEX

Application to Drill with approval 1

Location Plat 2

Daily Progress Report 3

Sundry Notices & Reports..... 23
(Casing Program, Fracture Treatment, & Contingency Plans)

Sundry Notices & Reports 24
(Change Plans)

Sundry Notices & Reports 25
(Fracture Treat& Gas flaring during testing)

Sundry Notices & Reports 26
(Fracture Treat)

Core Analysis 29

Conventional Core Description Form 30

Core-Gamma Correlation 38

Gas Analysis Report 39

Form 9-331 C
(May 1963)

SUBMIT IN T LICATE*
(Other instr ns on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED
Western Exploration Division
JUL 30 1974
DRILLING SECTION
DENVER, COLORADO

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER Wildcat SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FNL, 2055' FWL, Sec. 29, T10S, R17E, Duchesne County, Utah
At proposed prod. zone:

5. LEASE DESIGNATION AND SERIAL NO.: Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

8. FARM OR LEASE NAME: --

9. WELL NO.: Exxon #1 Wilkin Ridge Unit

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29, T10S, R17E

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 20 miles South of Myton, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1980 Ft.

16. NO. OF ACRES IN LEASE: 640 Acres

17. NO. OF ACRES ASSIGNED TO THIS WELL:

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: Not Applicable

19. PROPOSED DEPTH: 12,000'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6172' (Ungraded Ground)

22. APPROX. DATE WORK WILL START*: July 10, 1974

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Min. of 17½"	13-3/8"	48#	75' GL	Fill Annulus to Surface
11"	8-5/8"	32 & 24#	2000	Circulate to Surface
7-7/8"	5½"	17#	Approx. 11,500	Sufficient to Cover all pays.

Mud Program
Surface hole: Water-base mud 8.6-9.0 lb./gal.
Production hole: Water-base mud 8.6-12.0 lb./gal.
Mud Weight to be adjusted for conditions and to maintain safe drilling operations

Evaluation Program: Mud-Log 4500 feet to total depth.
Wireline Logs at total depth.

Blowout Preventer Program; 3000-psi working pressure BOPs and choke manifold.
On 8-5/8" Surface Casing: Two ram-type BOPs, one bag-type BOP, and choke manifold.

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [signature] TITLE Dsly Opr Mgr DATE 7-2-74

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

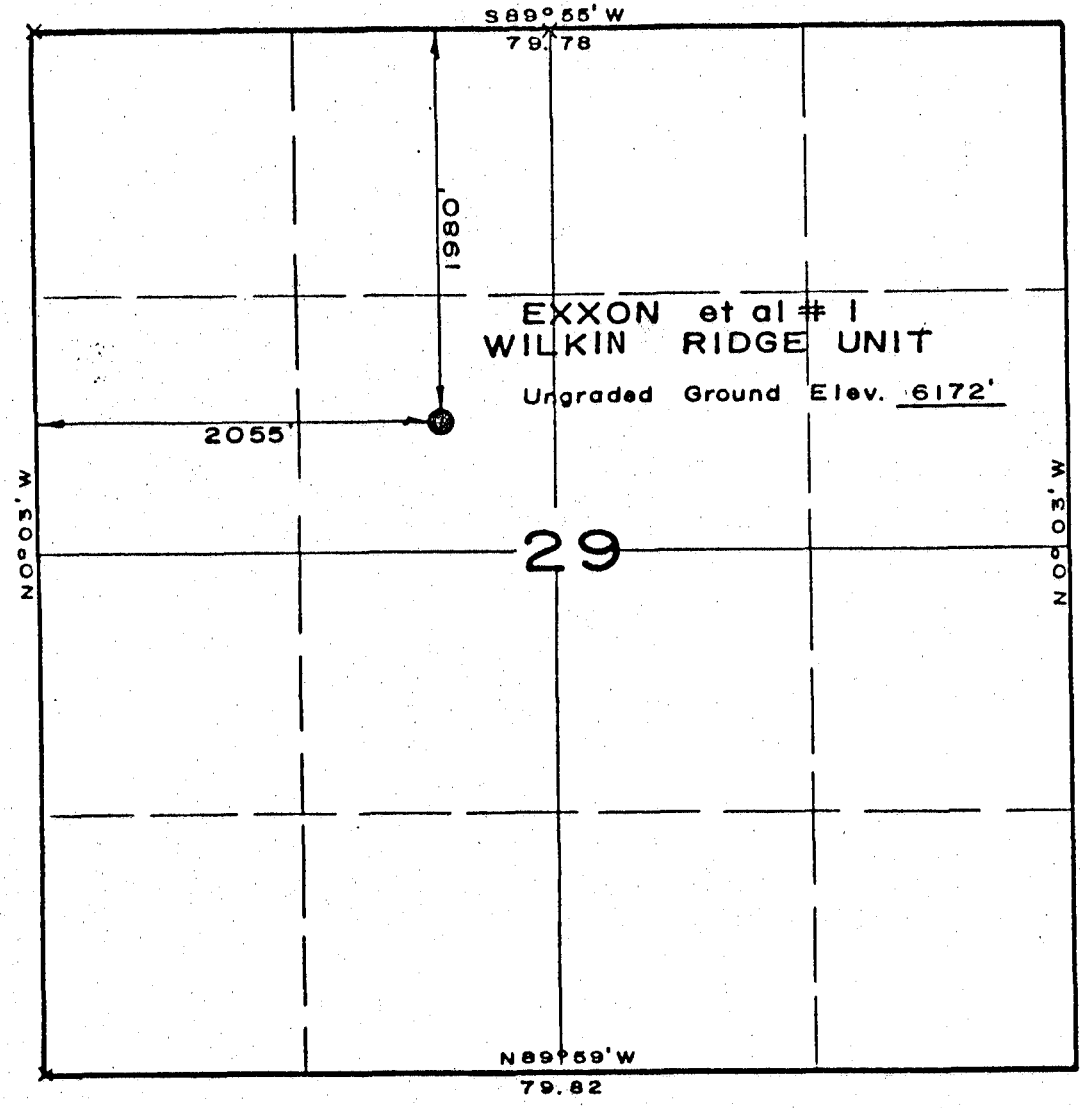
APPROVED BY [signature] TITLE DISTRICT ENGINEER DATE JUL 27 1974

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

*See Instructions On Reverse Side

T10S, R17E, S. L. M.



X = Corners Found and Used (Brass Cap).

CONFIDENTIAL

PROJECT

EXXON

Well location, *EXXON et al # 1 WILKIN RIDGE UNIT*, located as shown in the SE 1/4 NW 1/4 Section 29, T10S, R17E, S.L.M., Duchesne County, Utah

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION Nº 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q – 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 29 June 1974
PARTY L. Kay & J. Lietke	REFERENCES GLO Plat
WEATHER	FILE

EXXON COMPANY
Wilkin Unit 1
Duchesne County, Utah
Acreage Contribution

(1) Daily Progress Report

LOCATION:		Section 29, T10S,R17E, Duchesne County, Utah.
9-2-74		Spudded: 7:45 PM.
9-3-74	(1)	TD 712' (712') Drilling with partial returns.
9-4-74	(2)	TD 1162' (450') Lost 200 bbls mud.
9-5-74	(3)	TD 1781' (619')
9-6-74	(4)	TD 2208' (427') Green River shale. Few tarry oil shows, 5-25 units gas, average of 10 units drilling 205 minutes to the foot.
9-7-74	(5)	No Report.
9-8-74	(6)	No Report.
9-9-74	(7)	Fishing, drilling to 2708' and dropped string, POH with fish, shock sub parted in hole. Bit and near bit assembly 11.82'. Gone in hole to fish.
9-10-74	(8)	Went in hole, latched fish and jarred loose. POH, left ½ orifice ring in hole. Went in hole with bit and junk basket and recovered junk. Now going in hole with bit.
9-11-74	(9)	TD 2835' Will log and set 8-5/8" surface tonight.

EXXON COMPANY
Wilkin Unit 1
Duchesne County, Utah'
(Acreage Contribution)

(2) Daily Progress Report

9-12-74	(10)	Preparing to log @ 3023'. At 2890 formation changed to limestone ficieus to a shale ficieus, equal to 3000-31000 MFS wells down #3. Mud gas 0-16 units, average 4 drilling rate 6.9'-25' per hr. Average 10' per. Poor residual show in sands @ 2910'.
9-13-74	(11)	Rigged up to run casing. Ran IES and FDC. Green River top 1792 plug 4401'.
9-14-74		No Report.
9-15-74		No Report.
9-16-74	(17)	TD 3023' Set 8-5/8" @ 3015' cemented with 1700 sx. Nipped up BOP and tested, leaked. Will have to change out.
9-17-74	(18)	Changed out BOP and tested OK. Will drill out.
9-18-74		No Report.
9-19-74		No Report.
9-20-74		No Report.
9-21-74		Pipe rams checked out. Hydril did not hold. Now replacing same.
9-22-74		No Report.
9-23-74	(21)	TD 4169' Sand, shale, siltstone. Poor residual oil show @ 3765'-85 and 4000-10, 20-24 units gas. Dull gold flow.
9-24-74	(22)	TD 4225' (56') Sand, shale, limestone Made trip and left junk hole on bit trip.

EXXON COMPANY
Wilkin Unit 1
Duchesne County, Utah
(Acreage Contribution)

Daily Progress Report

9-25-74	(23)	TD 4607' Upper most of Toung of Washatach @ 4506', Washatch sand 4515'-60. 20 units gas.
9-26-74	(24)	TD 4927' (320') Sand, shale. Base of Ist Washatch Toung @ 4825'.
9-27-74	(25)	TD 5265' (338') Plugged 1063'. No gas Should core Around 6000'.
9-28-74	(26)	No Report.
9-29-74	(27)	No Report.
9-30-74	(28)	TD 6025' (760') Varigated shale. No show. Wasatch sand 5870'- 5920'. Circ out. Possible corring point. No. gas. 6140 next coring point.
10-1-74	(29)	TD 6312' (287') Circ. out sand @ 6120-31', tight. No show. Plan to cor 2st gas sand.
10-2-74	(30)	TD 6555' (243') Wasatch, no show. Drilling break @ 6533', tight. No show. 17' high to #3 wells draw.
10-3-74		No R port.
10-4-74		No Report.
10-5-74		TD 6807' No show, varigated shale and siltstone, interbedded gray white to lite brown calcium sand stone, very low porosity.
10-6-74		No Report.
10-7-74		No Report.
10-8-74		TD 7056' Washatch. Now show. Tight c sand from 6810'-50 and 6920-60. Mud 8.8.

EXXON COMPANY
Wilkin Unit 1
Duchesne County, Utah
(Acreage Contribution)

(4) Daily Progress Report

10-10-74	Tripping in for new bit @ 7811'. in the Wasatch, red brown shell with few type sand strings. Drill rate 9' to 10' per hr. No shows.
10-11-74	Tripping for new bit @ 8339'. Had drilling break in sand from 8250'-65 no gas. Will reach potential core point at base of Wasatch this weekend
10-12-74	No Report.
10-13-74	No Report.
10-14-74	Drilling below 8891'. Mesa Verge, wit no show, tight fine grained sand, and gray shell with trace of limeston Drill rate was 6-15' per hr.
10-15-74	Drilling below 9075 in Mesa Verda, lithology alternative type sand and gray shell. Gas detector is tested daily and working properly.
10-16-74	No Report,
10-17-74	No Report.
10-18-74	TD 9166' Mesa Verda with no show, lithology alternative type sand, and gray shell. Made trip for bit.
10-19-74	No Report.
10-20-74	No Report.
10-21-74	Drilling below 9827' in Mesa Verda with no show. Circ. out drilling breaks @ 9602' and 9698'. Had maximum of 5 units of gas.

10-22-74	Below 10,012' in Mesa V rda with no show. Lithology in 80° shell with few scattered sand and stringers, next potential gas sand is expected @ 10,210, current BGG 1-4 units.
10-23-74	Below 10,097' Mesa Verda. Circ. out drilling break from10,084'-95'. Samples are 20% sand, tight to fragile with 4 units gas, no show. Plans are to cut a core and possibly test in next 200'.
10-24-74	No Report.
10-25-74	No Report.
10-26-74	TD 10,306' Casing began coring @ 10,273'. Drilling break @ 10,269'-73' 32 units of gas.
10-27-74	No Report.
10-28-74	Core #1, 10,273'-312, recovered 37'. DST #1 10,279'-312' recovered 90' of gas cut mud, no gas to surface. IH 4971#, IF 143'-112, ISIP 275#, FF 138-143, FSIP 244#, FHH 4951'. Drilling to 10,320', had break 10,316'-20' has 130-170 units of gas.
10-29-74	TD 10,486' Mostly sand and siltstone below 10,370'.
10-30-74	No Report.
10-31-74	No Report.
11-1-74	TD 10,740' (254') Mud 9.2, Vis 45, WI 12.8, Chl 150. Lost circ., mixed mud and LCM. Preparing to core.

EXXON COMPANY
Wilkin Unit #1
Duchesne County, Utah
(Acreage Contribution)

(6) Daily Progress Report

11-2-74	TD 10,803' (45') Core #2 10,740'-97', recovered 57', sandstone with scattered flourite @ 10,750'-92, 6% porous, 55% water saturation, no oil.
11-3-74	TD 10,991' (188') Had break 10,970'-90', 9' per hr to 27' per hr. Maximum 350 units gas, 60% sand, 40% siltstone, very fine grain.
11-4-74	TD 11,043' (52') Tripping. 896 units trip gas, gas show @ 11,000'-30, average 200 units, sand and siltstone.
11-5-74	No Report.
11-6-74	TD 11,150' (107') Mud 9.3, Vis 46, WL 12.5, Shale and silt with thin sand string. Had break @ 11,067'-74'. Gas kick of 200 units. Circ. and preparing to trip.
11-7-74	TD 11,185' (35') Mud 9.3, Vis 40, WL 12.7. Circ. Prepared to trip for core #3, sand @ 11,150'-80, very fine grain. 70-100 units gas.
11-8-74	TD 11,221' (36') Mud 9.4, Vis 40, WL 12.7. Core #3, 11,185'-11,221', 40-80 units BGG while coring, 960 units trip.
11-9-74	TD 11,296' (75') Mud 9.4, Vis 41, W 12.1, Core #3 11,185'-235', cut 50' recovered 45'. Shale, 2-3' siltston No show.
11-10-74	No Report.
11-11-74	No Report.

EXXON COMPANY
Wilkin Unit #1
Duchesne County, Utah
(Acreage Contribution) (7) Daily Progress Report

11-12-74	TD 11,509' (213') Logger TD 11,521'. Ran DIL, FDN, Sonic an Dipmeter. Making trip for bit. Mesa Verda formation 9310'.
11-13-74	TD 11,608' (101') Mud 9.5, Vis 91. Circ. break @ 11,550'- 13-36' per hr. Circ.up sand, 400'-500 units gas. Venti gas thru separator. 3½' flare while drilling.
11-14-74	TD 11,715' (107') Raising mud from 9.8, to 10.3. POH for new bit. 1900 units BGG.
11-15-74	TD 11,715' (0') Circ. Mud in 11.6# and 10.8# out. Now raisin wt to 12#. Attempted to POH. Background gas 400 units.
11-16-74	TD 11,715' (0') Circ. Mud 11.6, out 10.8. Raising to 12#. Attempted to POH. 400 units BGG
11-17-74	TD 11,725' (10') Sand, shale. Mud 12.2, Vis 66, WL 11.7, pH 11, Chl 220,000. Bit #26 7-7/8" in @ 11,715' has made 10' in 2 hrs. Had 22 hrs tripping and circ.
11-18-74	TD 11,796' (71') Sandstone, siltstone, and shale. Mud 12.2, Vis 66, WL 11.5, pH 11.6, Chl 250,000. Bit #26 7-7/8" in @ 11,715' has made 81' in 26 hrs.
11-19-74	No Report.
11-20-74	TD 11,823' (29') Sandstone. Mud 12.1, Vis 48, WL 11.6, pH 11.7. Bit #26 7-7/8" in @

11-20-74(con't)	11,715' has made 108' in 36 hrs. Bit #27 7-7/8" in @ 11,823' going in hole. 6 hrs drilling and 18 hrs tripping and circ.
11-21-74	TD 11,858' (25') Sand. Mud 12, Vis 58, WL 11.8, Chl 250,000, Bit #27 7-7/8" in @ 11,823' has made 35' in 17-3/4 hrs. 11-3/4 hrs drilling. 8 hr trip. 4¼ hrs circ. break 11,842'-56, 2½-per hr. 46-96 units gas.
11-22-74	TD 11,919' (61') Sand, shale. Mud 12.3, Vis 47, WL 11.7, pH 11.4, Chl 250,000. Bit #27 7-7/8" in @ 11,823' has made 96' in 28¼ hrs. 16½ hrs trip 4-3/4 hrs trip and 2-3/4 hrs circ.
11-23-74	TD 11,960' (41') Sandstone. Mud 12.2, Vis 45, WL 12.2, pH 11.4, Chl 250,000. Bit #28 in @ 11,919' has made 41' in 9-3/4 hrs. 14-34 units BGG, 820 units trip gas. 9-3/4 hrs drilling 9 hr trip.
11-24-74	TD 12,042' (0') Mud 12.2, Vis 44, WL 12, pH 11.6, Chl 250,000 Circ. on bottom. 13¼ hrs trip.
11-25-74	TD 12,096' (54') Mud 12.2, Vis 42, WL 12.9, pH 11.1, Chl 250,000. Bit #29 7-7/8" in @ 12,042' has made 54' in 17 hrs.

EXXON COMPANY
Wilkin Unit #1
Duchesne County, Utah
(Acreage Contribution)

Daily Progress Report

11-26-74	TD 12,103' (7') 30% sandstone, 30% siltstone, 40% shale. Mud 12.2, Vis 41, WL 12.2, pH 11.1, Chl 250,000. Bit #29 7-7/8" in @ 12,042' out 12,103', now o bottom circ.up.
11-27-74	TD 12,136' (33') Sand, shale. Mud 12.2, Vis 43, WL 12.2, pH 11.3, Chl 250,000. Bit #30 7-7/8" in @ 12,103' has made 33 in 9 hrs. Bit #31 7-7/8" in @ 12,136'. Had 9 hrs drilling. 10 hrs tripping. 4-3/4 hrs circ. and ¼ hr rig service.
11-28-74	TD 12,216' (80') Mud 12.1, Vis 42, WL 13.2, pH 11.2, Chl 250,000. Bit #31 7-7/8" in @ 12,136' has made 80 in 19-3/4 hrs.
11-29-74	TD 12,308' (92') Sand, Mud 12.1, Vis 45, WL 11.2, pH 11.4, Chl 350,000. Bit #31 7-7/8" in @ 12,136' has made 172' in 43½ hrs. 23-3/4 hrs drilling, ¼ hr rig service.
11-30-74	TD 12,390' (82') Sand. Mud 12.1 Vis 45, WL 11.3, PH 11.3, Chl 250,000. Bit #31 7-7/8" in @ 12,136' has made 254' in 65 hrs. 21½ hrs drilling, ¼ hr rig service, 2¼ hr circ.
12-1-74	TD 12,390' (0') Mud 12.3, Vis 4 67. WL 12.1, pH 10.5, Chl 850. 15 hrs circ. 8¼ hrs waiting on de-gasser.
12-2-74	TD 12,390' (0') Mud 12.8, Vis 51, WL 12.1, pH 10.8, Chl 1100. 18½ hrs circ. 5½ hrs POH. POH to log.

11

EXXON COMPANY
Wilkin Unit #1
Duchesne County, Utah
(Acreage Contribution)

(10) Daily Progress Report

12-3-74	TD 12,390' (0') Mud 12.8, 21 hrs logging and 3 hrs tripping.
12-4-74	TD 12,390' (0') 10 hrs trip and 14 hrs fishing for core gun Stuck @ 12,003'. Went in hole with side door overshot to 7000 and stuck, cable broke. POH and recovered 4000' cable.
12-5-74	TD 12,390' (0') 24 hrs fishing. Went in hole with spear to 4850'. POH. Left 1 bullet in hole. Rigged down SCHL.
12-6-74	TD 12,390' (0') Washing and reaming to bottom. Plan to run 5½" casing this weekend.
12-7-74	TD 12,390' (0') Mud 12.7, Vis 4[illegible] WL 11.3, pH 11.2, Chl 1150. Had 24 hrs washing and reaming to bottom.
12-8-74	TD 12,390' (0') Mud 12.6, Vis 46, WL 12.5, Ph 11.2, Chl 1100. 24 hrs washing to bottom and circ. and cond. mud. Laid down drill pipe and drill collar. Rigged up to run 5½" casing.
12-9-74	TD 12,390' (0') Running casing. Have 201 jts 5½" run at report time o 8500'.
12-10-74	TD 12,390' (0') 24 hrs running 75 jts 5½" 0-110, 24 jts 5½" 20# N-80 and 194 jts 17# N-80 and 1 jt 5½" 20#, N-80, total 294 jts, set @ 12,390' with 114 sx Class G. Waiting on cement and nippling up.

12-11-74	No Report.
12-12-74	TD 12,390' (0') Tightening up bolts on BOP.
12-13-74	TD 12,390' (0') Finished nippli up BOP. Rigged up SCHL and went in hole to run GR-CBL.
12-14-74	Going in hole with mill and scraper. PBTD was 12,168'. 24 hrs cleaning out tight spot, 5585'.
12-15-74	Laid down tubing, PBTD 12,168'. 24 hrs reamed from 12,160'-168'.
12-16-74	Running 2-7/8" tubing. 24 hrs ran gauge ring, junk basket to 12,180'. Ran casing bond log. 12,180'-9,000 not cemented above 11,003'.
12-17-74	Tripping out with 2-7/8" to lay down RTTS tool. 4 hrs ran RTTS packer to 10,000. Rigged upand attempted to run one 11/16 cement bond tool. Would not go thru packer. Will' run tubing open ended and attempt to rerun CBL.
12-18-74	No Report.
12-19-74	PB 12,180' Hooking up Hydril. 24 hrs trip out and laid down RTTS tool. Ran 2-7/8" to 10,003' Ran one 11/16 cement bond log from 12,180'-10,000 with 1600 pressure on casing. No cement above 11,300'.

12-20-74	PB 12,180' (0') Running tracer survey. Finished hooking up hydril. Perforated 1 shot each interval @ 10,241, 10,248, 10,252', 10,255'. Pumped down tubing. Perforations took fluid @ 5750# pressure, PI total 105 bbl 2% CaCl water.
12-21-74	Waiting on cement. Ran tracer survey. Trace fluid up hole to 9800'. Squeezed with 100 sx. Displaced with 66 bbls water.
12-22-74	Running tracer survey. 3200# on tubing. Ran survey and detected fluid movement up hole to 9060. None below perforations Waiting on cement. Squeezed #3 with 200 sx Class H, 4/10% HR-4 Displaced with 61 bbls H20. Estimated top of cement 10,160'
12-23-74	PB 12,180' (0') Finished waitin on cement. Pressured up to test squeeze on tubing to 5000#, casing to 4800#. OK. Dropped down on cement plug @ 10,125 with 8000#. Pulled tubing and rigged up SCHL. Started running temperature survey @ 6 AM 12-24-74.
12-24-74	No Report.
12-25-74	PB 12,180 (0') Went in hole with mill to 10,027'. Will shut down thru Christmas.
12-26-74	No Report.
12-27-74	No Report.
12-28-74	TD 12,180' Laid down 190 jts tubing, drill cement 10109'-10258'. Wash to bottom, circ./4

EXXON COMPANY
Wilkin Unit #1
Duchesne County, Utah
(Acreage Contribution)

(13)

Daily Progress Report'

12-29-74	Rigged up SCHL, began perforations, ran 3 guns, all fired, POH.
12-30-74	Rigged up Howco to break down perforations with KCL wate continued perforations from 10535-12130 with 47 shots, will frac well 1-4-75.
12-31-74	PB 12,180' (0') Now flowing back break down fluid to tank. Broke down with 2% CaCl water. Balled out @ 6900#. Injected 446 bbls in formation, casing volume 282 bbls, total 728 bbls. Opened to tank. Flowed back 293 bbls in 12 hrs, 435 to recover.
1-1-75	Flowing 24 hrs, recovered 68 bbls. Total 360 recovered 86 to recover.
1-2-75	Flowing 24 hrs, recovered 54 bbls. Total 414 recovered, 32 to recover.
1-3-75	Lifting with nitrogen at rate 150-180. Recovered all injectio water. 186 casing volume to recover.
1-4-75	Flowing 160 MCFD. Ran flow meter, temperature survey. Gas at 10,535', 20% total volume of flow. Gas at 11,018', 20% total volume of flow. Gas 10,079'-85, 10% total volume of flow. Gas At 11,504', 15% total volume of flow. Gas at 11,562', 25% total volume of flow. Gas a 11,968', 10% total volume of flow. 126 bbls to recover.

EXXON COMPANY
Wilkin Unit #1
Duchesne County, Utah
(Acreage Contribution)

(14)

Daily Progress Report

1-5-75	Flowing 143-87 MCFD. Flowed thru seperator for 12 hrs. Estimated 150 MCFD.
1-6-75	Prepared frac water to frac well Flowed 12 hrs thru seperator at 131-85 MCFD. 12 hrs TP pit.
1-7-75	Testing lines, flowed well 3 hrs. 127-130 MCFD. Shut in 19¼ hrs. Casing had pressure from 25# and built to 1650#.
1-8-75	Flowing to frac tanks. Frac with 388,400 gallons of poly emulsion and 875,000# of sand in two stages. Flowed back 1968 bbls in 14 hrs with 0-150# on 1-3/4" choke. 7280 bbls to recover.
1-9-75	Flowing frac fluid for 23 hrs on 1-3/4" choke. Recovered 641 bbls, 6633 to recover. Gas nil, 0-50#.
1-10-75	Flowing frac water to tank. Flowed 420 bbls. Recovered 3006 bbls. 6860 to recover.
1-11-75	No Report.
1-12-75	Flowed 219 bbls in 24 hrs. Ran flow meter and Temp. Survey which indicated flow entry from 10,490'-12,010'.
1-13-75	Flowed 162 bbls in 24 hrs. Total recovered 3691 bbls, 5557 bbls to recover. Preparing to run tubing.

EXXON COMPANY
Wilkin Unit #1
Duchesne County, Utah
(Acreage Contribution)

(15) Daily Progress Report

1-14-75	Flowed 126 bbls frac water, flowing at 254 MCFD. Recovered 3814 bbls, 5433 to recover. Ran 2-7/8" tubing to 10,487 Preparing to gas lift with nitrogen.
1-15-75	Flowed total 81 bbls fluid, 14 water an 67 oil. 3895 recovered, 5352 to recover Found obstruction in tubing @ 4975'. Preparing to pull tubing.
1-16-75	Repairing BOP, preparing to pull tubing. Recovered 165 bbls fluid, total recovered 4063, 5185 to recover.
1-17-75	Preparing to land tubing. Repaired BOP. Found obstruction in tubing @ 4975'. Went in hole with tubing. Flowed 44 bbls frac fluid with maximum gas flow of 400 MMCF. Total recovered 4107 bbls, 5141 bbls to recover.
1-18-75	Flowed 59 bbls on gas lift.
1-19-75	Flowed 130 bbls on gas lift.
1-20-75	Flowed 49.6 bbls on gas lift. Total recovered 4357, 4900 to recover. Rig released 1-18-75.
1-21-75	Flowed 24 hrs without nitrogen. No fluid to surface, gas nil. Ran pressure traverse from surface to 12,050'.
1-22-75	Flowed 18 hrs without nitrogen. Made 48 bbls, average 2,004 gas per day. Tubing pressure 35#. Casing 700#. Had 3/4" choke. Total recovered 4395 bbls. 4853 bbls to recover.

EXXON COMPANY
Wilkin Unit #1
Duchesne County, Utah
(Acreage Contribution) (16) Daily Progress Report

1-23-75	Flowed 24 hrs. Made 125 bbls frac fluid average gas 346 MCRD, total recovered 4518, 4730 to recover.
1-24-75	Flowed 24 hrs on 3/4" choke, 210 MCFD. Recovered 63.4 bbls frac fluid. Total recovered 4583, 4663 to go.
1-25-75	Flowed 24 hrs. Recovered 42 bbls. Average 234 MCFD, 4626 recovered, 4622 to recover.
1-26-75	Flowd 24 hrs. Recovered 102 bbls, average 325 MCFD. 4728 recovered, 4522 to recover.
1-27-75	Flowed 24 hrs, recovered 30 bbls, average 210 MCFD, 4758 recovered 4490 to recover.
1-28-75	Flowed 24 hrs. Recovered 113 bbls, average gas 347 MCFD. Recovered 4780, 4378 to recover.
1-29-75	Flowed 24 hrs, recovered 50 bbls. Avera gas 325 MCFD. 4920 bbls recovered, 4328 bbls to recover.
1-30-75	Flowed 69 bbls, average gas 298 MCFD. 4989 recovered, 4259 to recover.
1-31-75	Flowed 41 bbls 196 MCFD. Recovered 5030 bbls, 4218 bbls to recover.
2-1-75	Flowed 57 bbls frac fluid. 314 MCFD. 5166 bbls recovered. 4082 bbls to recover.
2-2-75	Flowed 73 bbls frac fluid. 293 MCFD. 5239 bbls recovered. 4009 bbls to recover.

EXXON COMPANY
Wilkin Unit #1
Duchesne County, Utah
(Acreage Contribution)

(17) Daily Progress Report

2-3-75	Flowed 48 bbls fluid. 226 MCFD. Recovered 5287 bbls. 3961 bbls to recover.
2-4-75	Flowed 65 bbls, 296 MCFD. Have recovered 5252 bbls, 3896 bbls to recover.
2-5-75	Flowed 61 bbls, 352 MCFD. Have recovered 5413 bbls, 3835 bbls to recover.
2-6-75	No Report.
2-7-75	No Report.
2-8-75	Flowed 33 bbls, 352 MCFD. Have recovered 5446 bbls, 3802 bbls to recover. Ran pressure survey. Gradial meter and flow meter.
2-9-75	Flowed 36 bbls, 287 MCFD. Have recovered 5536 bbls, 3712 bbls to recover.
2-10-75	Flowed 43 bbls, 332 MCFD. Have recovere 5579 bbls, 3669 bbls to recover.
2-11-75	Flowed 51 bbls, 311 MCFD. 3618 bbls to recover. 5630 bbls recovered.
2-12-75	Flowed 38 bbls, 357 MCFD. 3580 bbls to recover, 5668 bbls recovered.
2-13-75	Flowed 44 bbls, 442 MCFD. Have recovered 5712 bbls, 3536 bbls to recover.

EXXON COMPANY
Wilkin Unit #1
Duchesne County, Utah
(Acreage Contribution)

(18) Daily Progress Report

2-14-75	Flowed 40 bbls, 303 MCFD. Have recovered 5752 bbls, 3496 bbls to recover.
2-15-75	Flowed 45 bbls, 383 MCFD. 5797 bbls recovered, 3451 bbls to recover.
2-16-75	Flowed 26 bbls, 255 MCFD. 5823 bbls recovered, 3425 bbls to recover.
2-17-75	Flowed 41 bbls, 334 MCFD. 5864 bbls recovered, 3384 bbls to recover.
2-18-75	Flowed 36 bbls, 355 MCFD, 5900 bbls recovered, 3348 bbls to recover.
2-19-75	Flowed 41 bbls, 363 MCFD. Have recovered 5941 bbls, 3307 bbls to recover.
2-20-75	Flowed 41 bbls, fluid, 196 MCFD. Have recovered 5030 bbls, 4218 bbls to recover.
2-21-75	Flowed 32 bbls, 330 MCFD. Have recovere 6009 bbls, 3239 bbls to recover.
2-22-75	Flowed 33 bbls, 288 MCFD. Have recovere 6042 bbls, 3206 bbls to recover.
2-23-75	Flowed 45 bbls, 342 MCFD. Have recovere 6087 bbls, 3161 bbls to recover.
2-24-75	Flowed 33 bbls, 314 MCFD. Have recovered 6120 bbls, 3128 bbls to recover.
2-25-75	Flowed 37 bbls, 312 MCFD. Have recovered 6157 bbls, 3091 bbls to recover.

2-26-75	Flowed 35 bbls, 304 MCFD. Have recovered 6192 bbls, 3056 bbls to recover.
2-27-75	Flowed 36 bbls, 337 MCFD. Have recovered 6226 bbls, 3020 bbls to recover.
2-28-75	Flowed 32 bbls, 288 MCFD. Have recovered 6260 bbls, 2988 bbls to recover.
3-1-75	Flowed 33 bbls, 302 MCFD. Have recovered 6293 bbls, 2955 bbls to recover.
3-2-75	Flowed 23 bbls, 171 MCFD. Have recovered 6316 bbls, 2932 bbls to recover.
3-3-75	Shut in, tubing 1265#, csg 1690#.
3-4-75	Shut in tubing 1679#, casing 1900#.
3-5-75	Shut in, tubing 1920#, casing 2095#.
3-6-75	Shut in, tubing 2122#, casing 2250#.
3-7-75	No Report.
3-8-75	Shut in, tubing 2305#, casing 2340#.
3-9-75	Shut in, tubing 2543#, casing 2490#.
3-10-75	Shut in, tubing 2641#, casing 2600#.
3-11-75	Shut in, 2734# tubing, 2690# casing.
3-12-75	Shut in, tubing 2828#, casing 2780#.
3-13-75	Shut in 2905 tubing, 2840# casing.
3-14-75	Pulled bottom hole pressure gauge.

3-15-75	Shut in, 3046# tubing, 2965# casing.
3-16-75	Shut in, 3111# tubing, 3089# casing.
3-17-75	Shut in, 3179# tubing, 3154# casing.
3-18-75	Shut in, 3236# tubing, 3208# casing.
3-19-75	Shut in, 3294# tubing, 3264# casing.
3-20-75	Shut in, 3349# tubing, 3317# casing.
3-21-75	No Report.
3-22-75	No Report.
3-23-75	No Report.
3-24-75	No Report.
3-25-75	Shut, 3577# tubing, 3547# casing.
3-26-75	Shut in.
3-27-75	Shut in.
3-28-75	Shut in.
3-29-75	Shut in.
3-30-75	Shut in. Gauger released and all gauges removed from well. FINAL REPORT.

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instruction reverse side)

Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

8. FARM OR LEASE NAME:

2. NAME OF OPERATOR: Exxon Corporation

9. WELL NO.: Exxon #1 Wilkin Ridge Unit

3. ADDRESS OF OPERATOR: P. O. Box 120, Denver, Colorado 80201

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' FNL, 2055' FWL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29-T10S-R17E, SLM

14. PERMIT NO.: API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6192' RDB

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	X	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	X
REPAIR WELL		CHANGE PLANS (Csg.)	X	(Other) Surface Location			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Casing Program

13-3/8" 48 ppf conductor cemented at 64' RDB in dense rock.
8-5/8" 32 & 24 ppf surface casing setting depth changed from the 2000' to 3000' because of potential lost return zones.

Fracture Treatment

Based on formation evaluation of nearby wells, it may be necessary to stimulate the well to obtain commercial production. Tentatively a massive formation fracturing treatment is under consideration similar to the attached evaluation and stimulation proposal. With the recent developments, it may be possible to accomplish fracturing in two rather than three massive jobs.

Contingency Plans

For your information and concurrence, we attach Exxon's Contingency Plan and Brinkerhoff's Spill Prevention & Control Plan. Exxon will immediately contact the U.S.G.S. and the B.L.M. in the event of an emergency, using the Code of Federal Regulations as our basic policy. However, should either office have additional instructions, please advise so that we can immediately incorporate these in our overall plan.

(Continued on Page 2)

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Division Drilling Manager DATE Sept. 6, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

23.

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER: Wildcat

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

2. NAME OF OPERATOR: Exxon Corporation

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: P. O. Box 120, Denver, Colorado 80201

9. WELL NO.: Exxon #1 Wilkin Ridge Unit

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' FNL, 2055'FWL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29-T10S-R17E SLM

14. PERMIT NO.: API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6192 ROB

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	X	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

With this notice we request your permission to increase the permit depth on this well to 12,500' or 200'± into the Mancos Shale, whichever occurs first. This request does not constitute a change of objective formation.

Mr. E. W. Guynn, Acting District Engineer, USGS, Salt Lake City, gave verbal approval for this November 22, 1974.

CONFIDENTIAL

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Senior Engineer DATE November 25, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

24.

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
P. O. Box 120; Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1,980' FNL, 2,055' FWL

5. LEASE DESIGNATION AND SERIAL NO.
Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Wilkin Ridge Unit

8. FARM OR LEASE NAME

9. WELL NO.
Exxon #1 Wilkin Ridge Unit

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29-T10S-R17E, SLM

14. PERMIT NO.
API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6,192' RDB

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	X	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS		(Other)			
(Other) Gas flaring during testing			X				

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

During the completion attempt on this wildcat well it will be necessary to flare gas. After perforating, the well will be tested for 2 or 3 days to determine its potential prior to a massive frac treatment. After the stimulation, a larger testing period will be required, approximately 30 days, to determine if gas can be produced in commercial quantity. All gas will be metered. Your approval is requested.

CONFIDENTIAL

18. I hereby certify that the foregoing is true and correct

SIGNED John F. Richardson TITLE Senior Staff Engineer DATE 12/11/74

John F. Richardson

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

25

Well Book

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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2. NAME OF OPERATOR: Exxon Corporation

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: P. O. Box 120, Denver, Colorado 80201

9. WELL NO.: Exxon #1 Wilkin Ridge Unit

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980 FNL, 2055 FWL

CONFIDENTIAL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29-T10S-R17E, SLM

14. PERMIT NO.: API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6192' RDB

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	X	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS		(Other)			
(Other)							

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Verbal approval for the following proposed work including necessary venting or flaring of gas (subject to royalty, NTL-4) was received 9/2/75 from Mr. E. W. Guynn, District Engineer.

PROPOSED WORK:

1. Bleed 4750 psi SITP from well by venting or flaring gas.
2. Load well with saltwater.
3. Pull tubing.
4. Set wireline bridge plug at 11,110'+.
5. Run permanent packer and set at 10,200'+.
6. Run tubing and set in packer.
7. Perforate an additional 10-15 holes between 10,902' and 11,085'.
8. Fracture treat Mesa Verde sandstone w/80,000 gal. gelled water and 200,000 lbs. 20/40 mesh sand.
9. Test well.

The proposed work should begin on or about September 5, 1975.

Included are copies of the current wellbore schematic and the proposed wellbore schematic. Also find attached, copies of Lessee's Monthly Report of Operations for June, July, August, 1975.

18. I hereby certify that the foregoing is true and correct

SIGNED John P. Sprouse TITLE Supervising Engineer DATE 9-4-75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

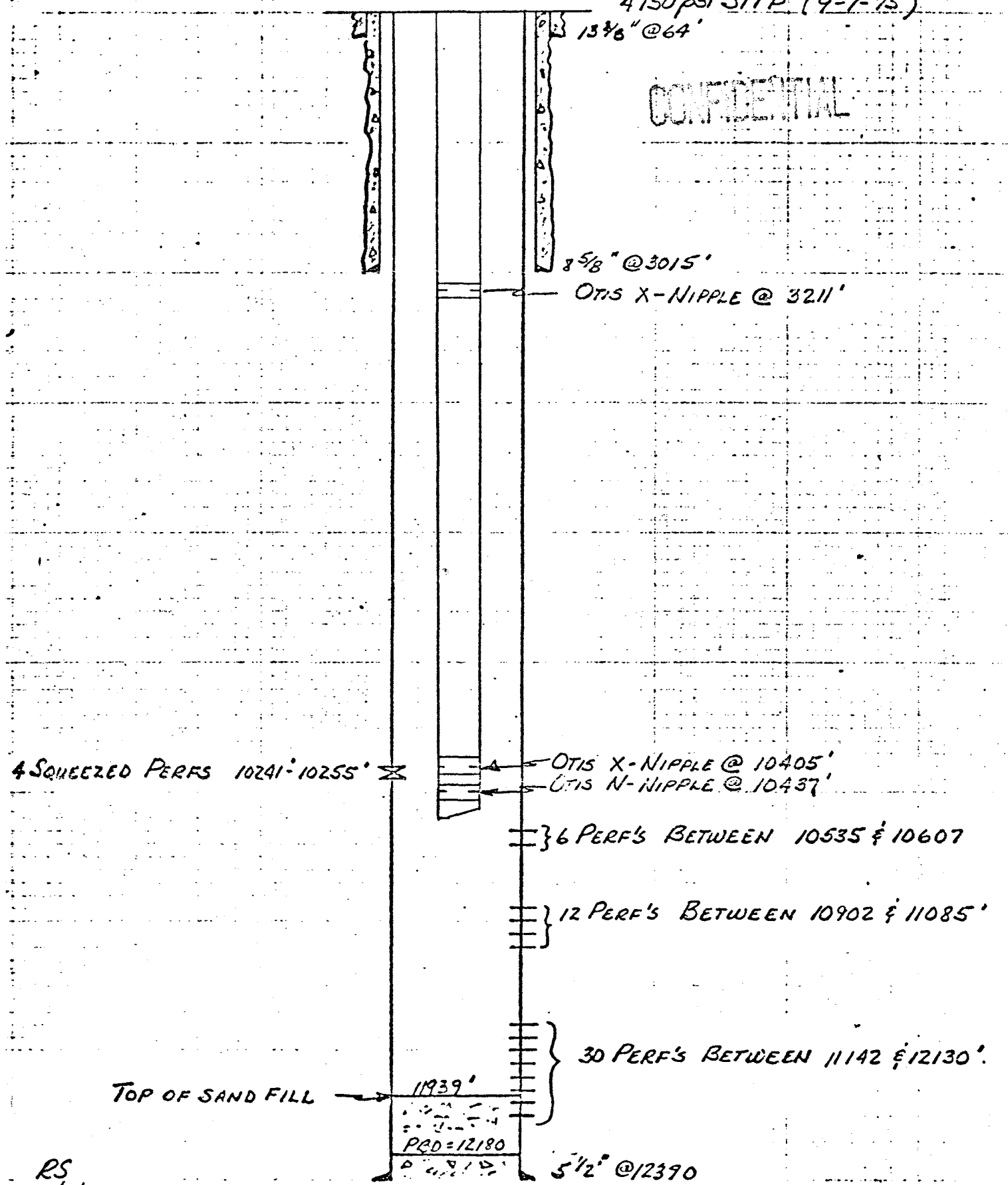
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

EXXON #1 WILKIN RIDGE UNIT

CURRENT WELLBORE SCHEMATIC (AS OF 9/3/75)

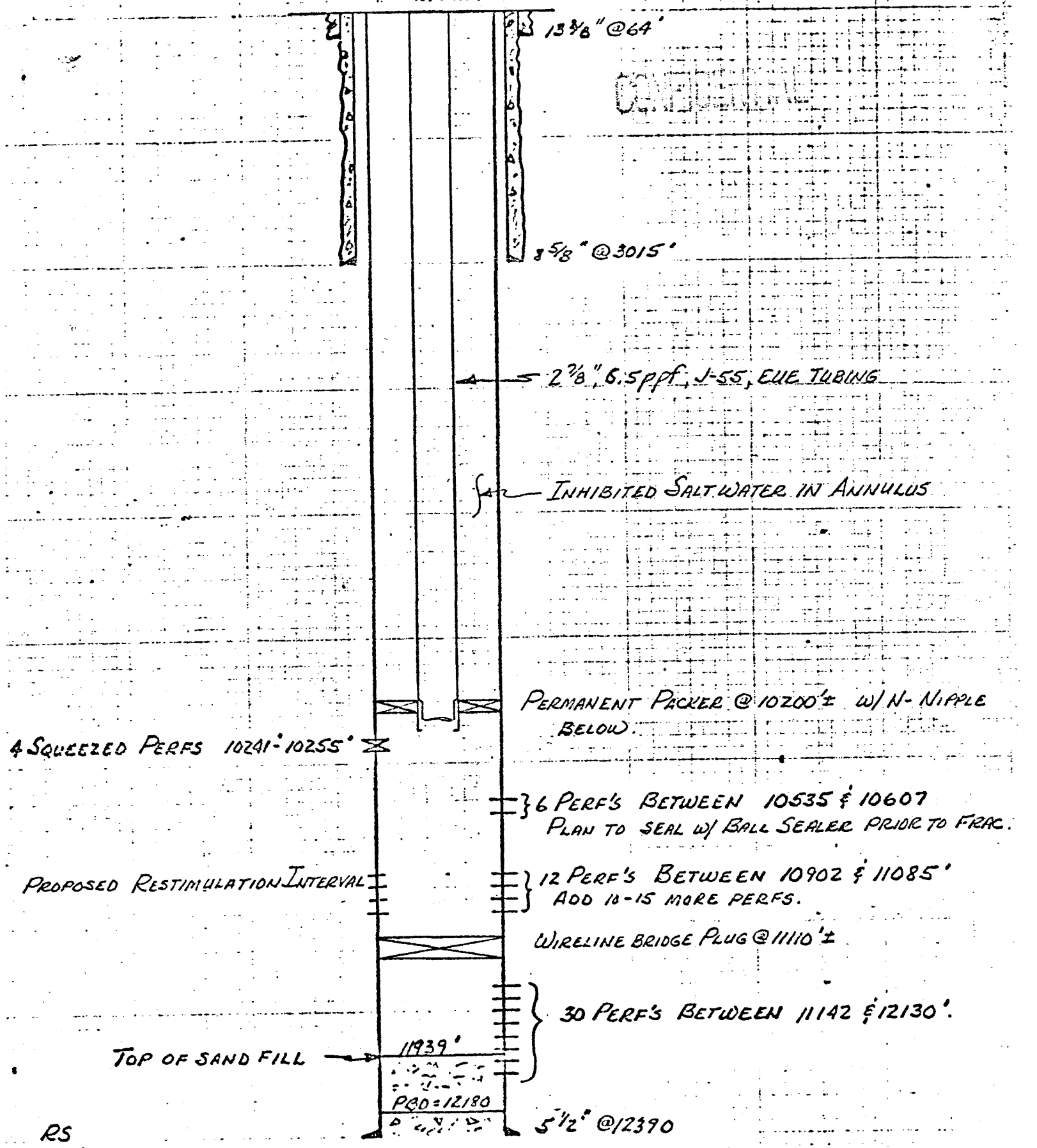
4750 psi SITP (9-1-75)



CONFIDENTIAL

RS
9/3/75

EXXON #1 WILKIN RIDGE UNIT
PROPOSED WELLBORE SCHEMATIC



RS
9/3/75

9106

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. 1

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
Well NO. 1 WILKIN RIDGE UNIT Core Type DIAMOND 4" Date Report 10-28-74
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG:EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

Lithological Abbreviations

SAND-SD, SHALE-SH, LIME-LM; DOLOMITE-DOL, CHERT-CH, GYPSUM-GYP; ANHYDRITE-ANHY, CONGLOMERATE-CONG, FOSSILIFEROUS-FOSS; SANDY-SDY, SHALY-SHY, LIMY-LMY; FINE-FN, MEDIUM-MED, COARSE-CSE; CRYSTALLINE-XLN, GRAIN-GRN, GRANULAR-GRNL; BROWN-BRN, GRAY-GY, VUGGY-VGY; FRACTURED-FRAC, LAMINATION-LAM, STYLOLITIC-STY; SLIGHTLY-SL/, VERY-V/, WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS (K_A)	POROSITY PER CENT *	RESIDUAL SATURATION PER CENT PORE: OIL	RESIDUAL SATURATION PER CENT PORE: TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
1	10282-83	0.09	2.7	9.2	55.3	Sd Drk Gy V/Fn Grn V/Silty Clay
2	10288-89	0.10	2.4	9.3	64.9	Sd Drk Gy V/Fn Grn V/Silty Clay
3	89-90	0.92	5.5	9.7	31.2	Sd Gy V/Fn Grn Silty Clay
4	90-91	0.14	5.5	11.4	35.7	Sd Gy V/Fn Grn Silty Clay
5	91-92	0.14	5.5	8.5	20.5	Sd Gy V/Fn Grn Silty Clay
6	92-93	0.11	6.9	10.7	18.3	Sd Gy V/Fn Grn Silty Clay
7	93-94	0.12	5.7	8.2	13.1	Sd Gy V/Fn Grn Silty Clay
8	94-95	0.13	5.1	10.9	21.8	Sd Gy V/Fn Grn Silty Clay
9	95-96	0.23	6.3	9.2	23.8	Sd Gy V/Fn Grn Silty Clay
10	96-97	1.6	6.2	9.5	21.8	Sd Gy V/Fn Grn Silty Clay
11	97-98	1.3	6.8	11.6	23.2	Sd Gy V/Fn Grn Silty Clay
12	98-99	0.65	6.7	8.9	20.4	Sd Gy V/Fn Grn Silty Clay
13	10299-00	1.3	4.8	10.3	23.6	Sd Gy V/Fn Grn Silty Clay
14	10301-02	0.11	5.9	3.6	61.5	Sd Gy V/Fn Grn Silty Clay
15	02-03	0.08	5.5	4.2	54.2	Sd Gy V/Fn Grn Silty Clay
16	10744.4	0.07	6.9	2.0	72.1	Sd Drk Gy V/Fn Grn Silty Clay
17	45.1	0.06	6.8	0.0	40.0	Sd Drk Gy V/Fn Grn Silty Clay
18	46.9	0.06	6.3	0.0	44.4	Sd Drk Gy V/Fn Grn Silty Clay
19	47.4	0.06	6.5	0.0	44.1	Sd Drk Gy V/Fn Grn Silty Clay
20	48.3	0.05	5.7	0.0	40.4	Sd Drk Gy V/Fn Grn Silty Clay
21	49.5	0.05	5.0	0.0	51.5	Sd Drk Gy V/Fn Grn Silty Clay
22	50.4	0.01	1.4	0.0	40.3	Sd Drk Gy V/Fn Grn Silty Clay
23	51.2	0.03	2.3	0.0	47.4	Sd Drk Gy V/Fn Grn Silty Clay
24	10754.4	0.07	6.5	0.0	44.4	Sd Drk Gy V/Fn Grn Silty Clay
25	55.3	0.06	4.0	0.0	63.4	Sd Drk Gy V/Fn Grn Silty Clay
26	56.5	0.28	5.1	0.0	63.8	Sd Drk Gy V/Fn Grn Silty Clay
27	57.3	0.14	7.0	0.0	48.6	Sd Drk Gy V/Fn Grn Silty Clay
28	58.1	0.11	7.0	0.0	35.4	Sd Drk Gy V/Fn Grn Silty Clay
29	59.7	0.08	7.3	0.0	50.2	Sd Drk Gy V/Fn Grn Silty Clay
30	60.2	0.07	6.8	0.0	36.3	Sd Drk Gy V/Fn Grn Silty Clay
31	61.2	0.07	6.4	0.0	65.1	Sd Drk Gy V/Fn Grn Silty Clay
32	62.8	0.06	6.4	0.0	37.2	Sd Drk Gy V/Fn Grn Silty Clay
33	63.5	0.05	5.9	0.0	55.7	Sd Drk Gy V/Fn Grn Silty Clay
34	64.1	0.04	6.1	0.0	51.1	Sd Drk Gy V/Fn Grn Silty Clay
35	65.4	0.05	7.9	0.0	47.8	Sd Drk Gy V/Fn Grn Silty Clay

* BOYLE'S LAW POROSITY - HUMIDITY CONTROLLED OVEN

These analyses, opinons or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

PRELIMINARY
copy

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
Well NO. 1 WILKIN RIDGE UNIT Core Type DIAMOND 4" Date Report 11-2-74
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG:EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

Lithological Abbreviations

SAND-SD, SHALE-SH, LIME-LM, DOLOMITE-DOL, CHERT-CH, GYPSUM-GYP, ANHYDRITE-ANHY, CONGLOMERATE-CONG, FOSSILIFEROUS-FOSS, SANDY-SDY, SHALY-SHY, LIMY-LMY, FINE-FN, MEDIUM-MED, COARSE-CSE, CRYSTALLINE-XLN, GRAIN-GRN, GRANULAR-GRNL, BROWN-BRN, GRAY-GY, VUGGY-VGY, FRACTURED-FRAC, LAMINATION-LAM, STYLOLITIC-STY, SLIGHTLY-SL/, VERY-V/, WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS (K_A)	POROSITY PER CENT *	RESIDUAL SATURATION PER CENT PORE: OIL	RESIDUAL SATURATION PER CENT PORE: TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
36	10766.2	0.04	7.2	0.0	59.2	Sd Drk Gy V/Fn Grn Silty Clay
37	67.3	0.03	5.5	0.0	54.8	Sd Drk Gy V/Fn Grn V/Silty Clay
38	68.4	0.04	6.2	0.0	55.9	Sd Drk Gy V/Fn Grn V/Silty Clay
39	69.2	0.04	6.2	0.0	63.4	Sd Drk Gy V/Fn Grn V/Silty Clay
40	70.2	0.02	5.5	0.0	69.8	Sd Drk Gy V/Fn Grn V/Silty Clay
41	71.4	0.04	5.9	0.0	45.8	Sd Drk Gy V/Fn Grn Silty Clay
42	72.7	0.05	6.7	0.0	56.2	Sd Drk Gy V/Fn Grn Silty Clay
43	73.4	0.03	4.5	0.0	38.5	Sd Drk Gy V/Fn Grn Silty Clay
44	74.2	0.05	6.4	0.0	34.6	Sd Drk Gy V/Fn Grn Silty Clay
45	75.4	0.05	7.1	0.0	53.1	Sd Drk Gy V/Fn Grn Silty Clay
46	76.8	0.07	7.1	0.0	51.3	Sd Drk Gy V/Fn Grn Silty Clay
47	77.5	0.05	6.8	0.0	32.9	Sd Drk Gy V/Fn Grn Silty Clay
48	78.3	0.05	6.6	0.0	47.5	Sd Drk Gy V/Fn Grn Silty Clay
49	79.3	0.05	6.5	0.0	42.3	Sd Drk Gy V/Fn Grn Silty Clay
50	80.4	0.08	6.9	0.0	42.6	Sd Drk Gy V/Fn Grn Silty Clay
51	81.4	0.03	4.9	0.0	53.0	Sd Drk Gy V/Fn Grn V/Silty Clay
52	82.1	0.10	6.8	0.0	50.2	Sd Drk Gy V/Fn Grn Silty Clay
53	83.7	0.05	7.0	1.2	39.0	Sd Drk Gy V/Fn Grn Silty Clay
54	84.7	0.06	7.1	0.0	59.6	Sd Drk Gy V/Fn Grn Silty Clay
55	85.2	0.04	6.3	0.0	45.0	Sd Drk Gy V/Fn Grn Silty Clay
56	86.4	0.05	6.2	0.0	49.5	Sd Drk Gy V/Fn Grn Silty Clay
57	87.1	0.08	7.7	0.0	66.5	Sd Drk Gy V/Fn Grn Silty Clay
58	88.7	0.15	8.0	0.0	34.7	Sd Drk Gy V/Fn Grn Silty Clay
59	89.4	0.05	7.1	0.0	47.8	Sd Drk Gy V/Fn Grn Silty Clay
60	90.2	0.06	7.3	0.0	41.1	Sd Drk Gy V/Fn Grn Silty Clay
61	91.3	0.07	6.9	0.0	38.0	Sd Drk Gy V/Fn Grn Silty Clay
62	92.8	0.07	6.6	1.4	35.7	Sd Drk Gy V/Fn Grn Silty Clay
63	93.4	0.07	7.3	0.0	41.3	Sd Drk Gy V/Fn Grn Silty Clay
64	94.3	0.09	6.9	1.3	40.6	Sd Drk Gy V/Fn Grn Silty Clay
65	95.4	0.06	6.7	0.0	47.2	Sd Drk Gy V/Fn Grn Silty Clay
66	96.3	0.04	3.3	0.0	51.2	Sd Drk Gy V/Fn Grn Silty Clay Carb
67	97.8	0.03	5.7	0.0	58.7	Sd Drk Gy V/Fn Grn Silty Clay
68	98.4	0.04	6.1	1.9	53.5	Sd Drk Gy V/Fn Grn Silty Clay
69	99.4	0.03	5.5	0.0	62.0	Sd Drk Gy V/Fn Grn Silty Clay
70	10800.6	0.03	4.7	0.0	59.6	Sd Drk Gy V/Fn Grn Silty Clay

* BOYLE'S LAW POROSITY - HUMIDITY CONTROLLED OVEN

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PRELIMINARY COPY

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
Well NO. 1 WILKIN RIDGE UNIT Core Type DIAMOND 4" Date Report 11-2-74
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG:EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

Lithological Abbreviations

SAND-SD SHALE-SH LIME-LM | DOLOMITE-DOL CHERT-CH GYPSUM-GYP | ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS | SANDY-SDY SHALY-SHY LIMY-LMY | FINE-FN MEDIUM-MED COARSE-CSE | CRYSTALLINE-XLN GRAIN-GRN GRANULAR-GRNL | BROWN-BRN GRAY-GY VUGGY-VGY | FRACTURED-FRAC LAMINATION-LAM STYLOLITIC-STY | SLIGHTLY-SL/ VERY-V/ WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS (K_A)	POROSITY PER CENT *	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
71	11197.5	0.02	4.9	27.6	31.5	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
72	98.4	0.07	4.8	15.9	13.6	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
73	11213.8	0.01	2.0	5.7	68.6	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
74	14.6	0.02	1.6	9.2	55.2	Sd Drk Gy V/Fn Grn V/Silty Clay
75	15.7	0.01	1.5	0.0	57.4	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
76	16.3	0.01	1.0	10.1	60.6	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
77	17.3	0.01	1.0	0.0	76.3	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
78	11222.4	0.02	1.5	0.0	58.0	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
79	23.7	0.02	2.7	4.6	64.0	Sd Drk Gy V/Fn Grn V/Silty Clay
80	24.7	0.02	2.4	7.7	77.4	Sd Drk Gy V/Fn Grn V/Silty Clay

* BOYLE'S LAW POROSITY - HUMIDITY CONTROLLED OVEN

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CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

WELL. Exxon #1 Wilkin Ridge Unit

NO. 43-013-30327

GEOLOGIST J. W. Boettcher

CORE NO 1 INTERVAL (M.D.) 10273-312 INTERVAL (I.E.S.) RECOVERY 37' FORMATION Mesa Verde

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY : List-type, color, hardness, grain size, angularity, sorting & accessories.	PERME-ABILITY	POROSITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROB. PROD.
		SHALE, black abundant carbonized, plant									
10275		remains, (stems and leaves) blocky to slightly									
		fissile, carbonaceous.									
10280											
		SAND, gr. vf-f, silty, Abd. Crossbedded	Poor	Poor	Slight	None	None	None	None	Pale Yellow even	
10285		laminae, carbonaceous claystone, mostly Qz.	Poor	Poor	Slight	None	None			"	
		grs., few coal and sh. grs., siliceous cement,	Poor	Poor	Slight	None	None			"	
		hard, poor sorting, pockets calcareous.	Poor	Poor	Slight	None	None			"	
10290		SAND, lite g to gr., f-gr., some med. gr., fw.	Poor	Fair	Good	?	None	Hev. to Slw.Strm	Bright	Gold uneven	Yes
		sl., sil. cement, slightly calc. vis porosity	Poor	Fair	Good	?	None	"	Bright	"	Yes
		quartzose some coaly and shale grs.	Poor	Fair	Good	?	None	"	Bright	"	Yes

30.

CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

WELL Exxon #1 Wilkin Ridge Unit (Continued)

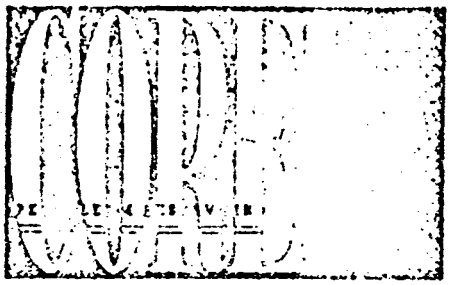
NO.

GEOLOGIST J. W. Boettcher

CORE NO 1 INTERVAL (M.D.) 10273-312 INTERVAL (I.E.S.) RECOVERY 37' FORMATION Mesa Verde

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY : List-type, color, hardness, grain size, angularity, sorting & accessories.	PERME-ABILITY	PORO-SITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROB. PROD.
10295											
10300											
		SHALE, crystn., blk., vy carb., carbonized lam:									
		some plant remains, blocky.									
		SAND, vf-fg-mg, silty, siliceous, abd. carb.,	Poor	Poor	Slight	None	None	NOne	None	Pale Yellow	
		sandy, silic., hard, occ. carbonized plant frag.									
10305											
		SHALE, crystn., blk., carbonaceous carbonized									
		plant remains .									
0310											

31



FIELD DATA CORE ANALYSIS REPORT

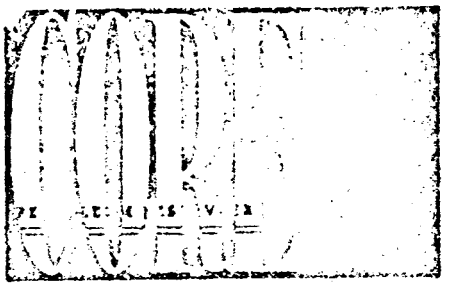
DATE October 30, 1974

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PERCENT	RESIDUAL LIQUID SATURATION				REMARKS
				OIL % VOL	OIL % PORE	TOTAL WATER % PORE		
1	10282-3	0.09	2.7		9.2	55.3		
2	88-89	0.10	2.4		9.3	64.9		
3	89-90	0.92	5.5		9.7	31.2		
4	90-91	0.14	5.5		11.4	35.7		
5	91-92	0.14	5.5		8.5	20.5		
6	92-93	0.11	6.9		10.7	18.3		
7	93-94	0.12	5.7		8.2	13.1		
8	94-95	0.13	5.1		10.9	21.8		
9	95-96	0.23	6.3		9.2	23.8		
0	96-97	1.6	6.2		9.5	21.8		
1	97-98	0.13	6.8		11.6	23.2		
2	98-99	0.65	6.7		8.9	20.4		
3	10299-3	1.3	4.8		10.3	23.6		
4	301-02	0.11	5.9		3.6	61.5		
5	02-03	0.08	5.5		4.2	54.2		

COMPANY Exxon Oil Company WELL #1 Wilkin Ridge Unit

COUNTY Duchesene STATE Utah FIELD ELEVATION

LOCATION



PRELIMINARY FIELD DATA CORE ANALYSIS REPORT

DATE November 2, 1974

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PERCENT	RESIDUAL LIQUID SATURATION				REMARKS
				OIL		TOTAL WATER		
				% VOL	% PORE	% PORE		
	10744-45		5.0		2.0	72.1		
	49-50		3.2		0.0	51.5		
	51-52		3.0		0.0	47.4		
	57-58		7.8		0.0	48.6		
	61-62		5.6		0.0	65.1		
	63-64		5.8		0.0	55.7		
	66-67		5.8		0.0	59.2		
	69-70		5.7		0.0	63.4		
	72-73		7.2		0.0	56.2		
	75-76		8.3		0.0	53.1		
	78-79		9.0		0.0	47.5		
	81-82		5.7		0.0	53.0		
	84-85		6.7		0.0	59.6		
	87-88		6.4		0.0	66.5		
	90-91		8.8		0.0	47.8		
	93-94		7.6		0.0	41.3		
	96-97		5.6		0.0	51.2		
	99-00		6.2		0.0	62.0		
		Avg.	6.0			55.6		

COMPANY Exxon Company, U.S.A. WELL #1 Wilkin Ridge Unit

COUNTY Duchesne STATE Utah FIELD W/C ELEVATION 6193 KB

LOCATION 1980 FNL & 2055 FWL 29-10S-17E

CL-572

33

EXXON #1 WILKIN RIDGE UNIT
PRELIMINARY REPORT, CORE # 3
NOVEMBER 7, 1974

DEPTH	PERM	HUM. CONTR. POROSITY	SATURATIONS OIL	SATURATIONS WATER
10744.4	0.07	6.9	2.0	72.1
10745.1	0.06	6.8		40.0
10746.9	0.06	6.3		44.4
10747.4	0.06	6.5		44.1
10748.3	0.05	5.7		40.4
10749.5	0.05	5.0		51.5
10750.4	0.01	1.4		40.3
10751.2	0.03	2.3		47.4
10754.4	0.07	6.5		44.1
10755.3	0.06	4.0		63.4
10756.5	0.28	5.1		63.8
10757.3	0.14	7.0		48.6
10758.1	0.11	7.0		35.4
10759.7	0.08	7.3		50.2
10760.2	0.07	6.8		36.3
10761.2	0.07	6.4		65.1
10762.8	0.06	6.4		37.2
10763.5	0.05	5.9		55.7
10764.1	0.04	6.1		51.1
10765.4	0.05	7.9		47.8
10766.2	0.04	7.2		59.2
10767.3	0.03	5.5		54.8
10768.4	0.04	6.2		55.9
10769.2	0.04	6.2		63.4
10770.2	0.02	5.5		69.8
10771.4	0.04	5.9		45.8
10772.7	0.05	6.7		56.2
10773.4	0.03	4.5		38.5
10774.2	0.05	6.4		34.6
10775.4	0.05	7.1		53.1
10776.8	0.07	7.1		51.3
10777.5	0.05	6.8		32.9
10778.3	0.05	6.6		47.5
10779.3	0.05	6.5		42.3
10780.4	0.08	6.9		42.6
10781.4	0.03	4.9		53.0
10782.1	0.10	6.8		50.2
10783.7	0.05	7.0	1.2	39.0
10784.7	0.06	7.1		59.6
10785.2	0.04	6.3		45.0
10786.4	0.05	6.2		49.5
10787.1	0.08	7.7		66.5
10788.7	0.15	8.0		37.4
10789.4	0.05	7.1		47.8
10790.2	0.06	7.3		41.1
10791.3	0.07	6.9		38.0
10792.8	0.07	6.6	1.4	35.7
10793.4	0.07	7.3		41.3
10794.3	0.09	6.9	1.3	40.6
10795.4	0.06	6.2		47.2
10796.3	0.04	3.3		51.2
10797.8	0.03	5.7		58.7
10798.4	0.04	6.1	1.9	53.5
10799.4	0.03	5.5		62.0
10800.6	0.03	4.7		59.6
Avg.	.05	6.1		49.1

CL-811-1

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
Well NO. 1 WILKIN RIDGE UNIT Core Type DIAMOND 4" Date Report 10-26-74
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG:EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

Lithological Abbreviations

SAND-SD · SHALE-SH · LIME-LM · DOLOMITE-DOL · CHERT-CH · GYPSUM-GYP · ANHYDRITE-ANHY · CONGLOMERATE-CONG · FOSSILIFEROUS-FOSS · SANDY-SDY · SHALY-SHY · LIMY-LMY · FINE-FN · MEDIUM-MED · COARSE-CSE · CRYSTALLINE-XLN · GRAIN-GRN · GRANULAR-GRNL · BROWN-BRN · GRAY-GY · VUGGY-VGY · FRACTURED-FRAC · LAMINATION-LAM · STYLOLITIC-STY · SLIGHTLY-SL/ · VERY-V/ · WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
		(K_A)	*			
1	10282-83	0.09	2.7	9.2	55.3	Sd Drk Gy V/Fn Grn V/Silty Clay
2	10288-89	0.10	2.4	9.3	64.9	Sd Drk Gy V/Fn Grn V/Silty Clay
3	89-90	0.92	5.5	9.7	31.2	Sd Gy V/Fn Grn Silty Clay
4	90-91	0.14	5.5	11.4	35.7	Sd Gy V/Fn Grn Silty Clay
5	91-92	0.14	5.5	8.5	20.5	Sd Gy V/Fn Grn Silty Clay
6	92-93	0.11	6.9	10.7	18.3	Sd Gy V/Fn Grn Silty Clay
7	93-94	0.12	5.7	8.2	13.1	Sd Gy V/Fn Grn Silty Clay
8	94-95	0.13	5.1	10.9	21.8	Sd Gy V/Fn Grn Silty Clay
9	95-96	0.23	6.3	9.2	23.8	Sd Gy V/Fn Grn Silty Clay
10	96-97	1.6	6.2	9.5	21.8	Sd Gy V/Fn Grn Silty Clay
11	97-98	1.3	6.8	11.6	23.2	Sd Gy V/Fn Grn Silty Clay
12	98-99	0.65	6.7	8.9	20.4	Sd Gy V/Fn Grn Silty Clay
13	10299-00	1.3	4.8	10.3	23.6	Sd Gy V/Fn Grn Silty Clay
14	10301-02	0.11	5.9	3.6	61.5	Sd Gy V/Fn Grn Silty Clay
15	02-03	0.08	5.5	4.2	54.2	Sd Gy V/Fn Grn Silty Clay
16	10744.4	0.07	6.9	2.0	72.1	Sd Drk Gy V/Fn Grn Silty Clay
17	45.1	0.06	6.8	0.0	40.0	Sd Drk Gy V/Fn Grn Silty Clay
18	46.9	0.06	6.3	0.0	44.4	Sd Drk Gy V/Fn Grn Silty Clay
19	47.4	0.06	6.5	0.0	44.1	Sd Drk Gy V/Fn Grn Silty Clay
20	48.3	0.05	5.7	0.0	40.4	Sd Drk Gy V/Fn Grn Silty Clay
21	49.5	0.05	5.0	0.0	51.5	Sd Drk Gy V/Fn Grn Silty Clay
22	50.4	0.01	1.4	0.0	40.3	Sd Drk Gy V/Fn Grn Silty Clay
23	51.2	0.03	2.3	0.0	47.4	Sd Drk Gy V/Fn Grn Silty Clay
24	10754.4	0.07	6.5	0.0	44.4	Sd Drk Gy V/Fn Grn Silty Clay
25	55.3	0.06	4.0	0.0	63.4	Sd Drk Gy V/Fn Grn Silty Clay
26	56.5	0.28	5.1	0.0	63.8	Sd Drk Gy V/Fn Grn Silty Clay
27	57.3	0.14	7.0	0.0	48.6	Sd Drk Gy V/Fn Grn Silty Clay
28	58.1	0.11	7.0	0.0	35.4	Sd Drk Gy V/Fn Grn Silty Clay
29	59.7	0.08	7.3	0.0	50.2	Sd Drk Gy V/Fn Grn Silty Clay
30	60.2	0.07	6.8	0.0	36.3	Sd Drk Gy V/Fn Grn Silty Clay
31	61.2	0.07	6.4	0.0	65.1	Sd Drk Gy V/Fn Grn Silty Clay
32	62.8	0.06	6.4	0.0	37.2	Sd Drk Gy V/Fn Grn Silty Clay
33	63.5	0.05	5.9	0.0	55.7	Sd Drk Gy V/Fn Grn Silty Clay
34	64.1	0.04	6.1	0.0	51.1	Sd Drk Gy V/Fn Grn Silty Clay
35	65.4	0.05	7.9	0.0	47.8	Sd Drk Gy V/Fn Grn Silty Clay

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SL-811-1

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Petroleum Reservoir Engineering
DALLAS, TEXAS

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Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS (K_A)	POROSITY PER CENT *	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
36	10766.2	0.04	7.2	0.0	59.2	Sd Drk Gy V/Fn Grn Silty Clay
37	67.3	0.03	5.5	0.0	54.8	Sd Drk Gy V/Fn Grn V/Silty Clay
38	68.4	0.04	6.2	0.0	55.9	Sd Drk Gy V/Fn Grn V/Silty Clay
39	69.2	0.04	6.2	0.0	63.4	Sd Drk Gy V/Fn Grn V/Silty Clay
40	70.2	0.02	5.5	0.0	69.8	Sd Drk Gy V/Fn Grn V/Silty Clay
41	71.4	0.04	5.9	0.0	45.8	Sd Drk Gy V/Fn Grn Silty Clay
42	72.7	0.05	6.7	0.0	56.2	Sd Drk Gy V/Fn Grn Silty Clay
43	73.4	0.03	4.5	0.0	38.5	Sd Drk Gy V/Fn Grn Silty Clay
44	74.2	0.05	6.4	0.0	34.6	Sd Drk Gy V/Fn Grn Silty Clay
45	75.4	0.05	7.1	0.0	53.1	Sd Drk Gy V/Fn Grn Silty Clay
46	76.8	0.07	7.1	0.0	51.3	Sd Drk Gy V/Fn Grn Silty Clay
47	77.5	0.05	6.8	0.0	32.9	Sd Drk Gy V/Fn Grn Silty Clay
48	78.3	0.05	6.6	0.0	47.5	Sd Drk Gy V/Fn Grn Silty Clay
49	79.3	0.05	6.5	0.0	42.3	Sd Drk Gy V/Fn Grn Silty Clay
50	80.4	0.08	6.9	0.0	42.6	Sd Drk Gy V/Fn Grn Silty Clay
51	81.4	0.03	4.9	0.0	53.0	Sd Drk Gy V/Fn Grn V/Silty Clay
52	82.1	0.10	6.8	0.0	50.2	Sd Drk Gy V/Fn Grn Silty Clay
53	83.7	0.05	7.0	1.2	39.0	Sd Drk Gy V/Fn Grn Silty Clay
54	84.7	0.06	7.1	0.0	59.6	Sd Drk Gy V/Fn Grn Silty Clay
55	85.2	0.04	6.3	0.0	45.0	Sd Drk Gy V/Fn Grn Silty Clay
56	86.4	0.05	6.2	0.0	49.5	Sd Drk Gy V/Fn Grn Silty Clay
57	87.1	0.08	7.7	0.0	66.5	Sd Drk Gy V/Fn Grn Silty Clay
58	88.7	0.15	8.0	0.0	34.7	Sd Drk Gy V/Fn Grn Silty Clay
59	89.4	0.05	7.1	0.0	47.8	Sd Drk Gy V/Fn Grn Silty Clay
60	90.2	0.06	7.3	0.0	41.1	Sd Drk Gy V/Fn Grn Silty Clay
61	91.3	0.07	6.9	0.0	38.0	Sd Drk Gy V/Fn Grn Silty Clay
62	92.8	0.07	6.6	1.4	35.7	Sd Drk Gy V/Fn Grn Silty Clay
63	93.4	0.07	7.3	0.0	41.3	Sd Drk Gy V/Fn Grn Silty Clay
64	94.3	0.09	6.9	1.3	40.6	Sd Drk Gy V/Fn Grn Silty Clay
65	95.4	0.06	6.7	0.0	47.2	Sd Drk Gy V/Fn Grn Silty Clay
66	96.3	0.04	3.3	0.0	51.2	Sd Drk Gy V/Fn Grn Silty Clay Carb
67	97.8	0.03	5.7	0.0	58.7	Sd Drk Gy V/Fn Grn Silty Clay
68	98.4	0.04	6.1	1.9	53.5	Sd Drk Gy V/Fn Grn Silty Clay
69	99.4	0.03	5.5	0.0	62.0	Sd Drk Gy V/Fn Grn Silty Clay
70	10800.6	0.03	4.7	0.0	59.6	Sd Drk Gy V/Fn Grn Silty Clay

* BOYLE'S LAW POROSITY - HUMIDITY CONTROLLED OVEN

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CL-511-1

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
Well NO. 1 WILKIN RIDGE UNIT Core Type DIAMOND 4" Date Report 11-2-74
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG:EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

Lithological Abbreviations

SAND-SD, SHALE-SH, LIME-LM, DOLOMITE-DOL, CHERT-CH, GYPSUM-GYP, ANHYDRITE-ANHY, CONGLOMERATE-CONG, FOSSILIFEROUS-FOSS, SANDY-SDY, SHALY-SHY, LIMY-LMY, FINE-FN, MEDIUM-MED, COARSE-CSE, CRYSTALLINE-XLN, GRAIN-GRN, GRANULAR-GRNL, BROWN-BRN, GRAY-GY, VUGGY-VGY, FRACTURED-FRAC, LAMINATION-LAM, STYLOLITIC-STY, SLIGHTLY-SL/, VERY-V/, WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS (K_A)	POROSITY PER CENT *	RESIDUAL SATURATION PER CENT PORE: OIL	RESIDUAL SATURATION PER CENT PORE: TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
71	11197.5	0.02	4.9	27.6	31.5	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
72	98.4	0.07	4.8	15.9	13.6	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
73	11213.8	0.01	2.0	5.7	68.6	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
74	14.6	0.02	1.6	9.2	55.2	Sd Drk Gy V/Fn Grn V/Silty Clay
75	15.7	0.01	1.5	0.0	57.4	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
76	16.3	0.01	1.0	10.1	60.6	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
77	17.3	0.01	1.0	0.0	76.3	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
78	11222.4	0.02	1.5	0.0	58.0	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
79	23.7	0.02	2.7	4.6	64.0	Sd Drk Gy V/Fn Grn V/Silty Clay
80	24.7	0.02	2.4	7.7	77.4	Sd Drk Gy V/Fn Grn V/Silty Clay

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CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY EXXON COMPANY, U.S.A. FIELD WILDCAT FILE 9106 RP-2-4776

WELL NO. 1 WILKIN RIDGE UNIT COUNTY DUCHESNE DATE 11-2-74

LOCATION SE NW SEC 29-T10S-R17E STATE UTAH ELEV. 6193'KB

CORE-GAMMA CORRELATION

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VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG
(PATENT APPLIED FOR)

GAMMA RAY
RADIATION INCREASE →

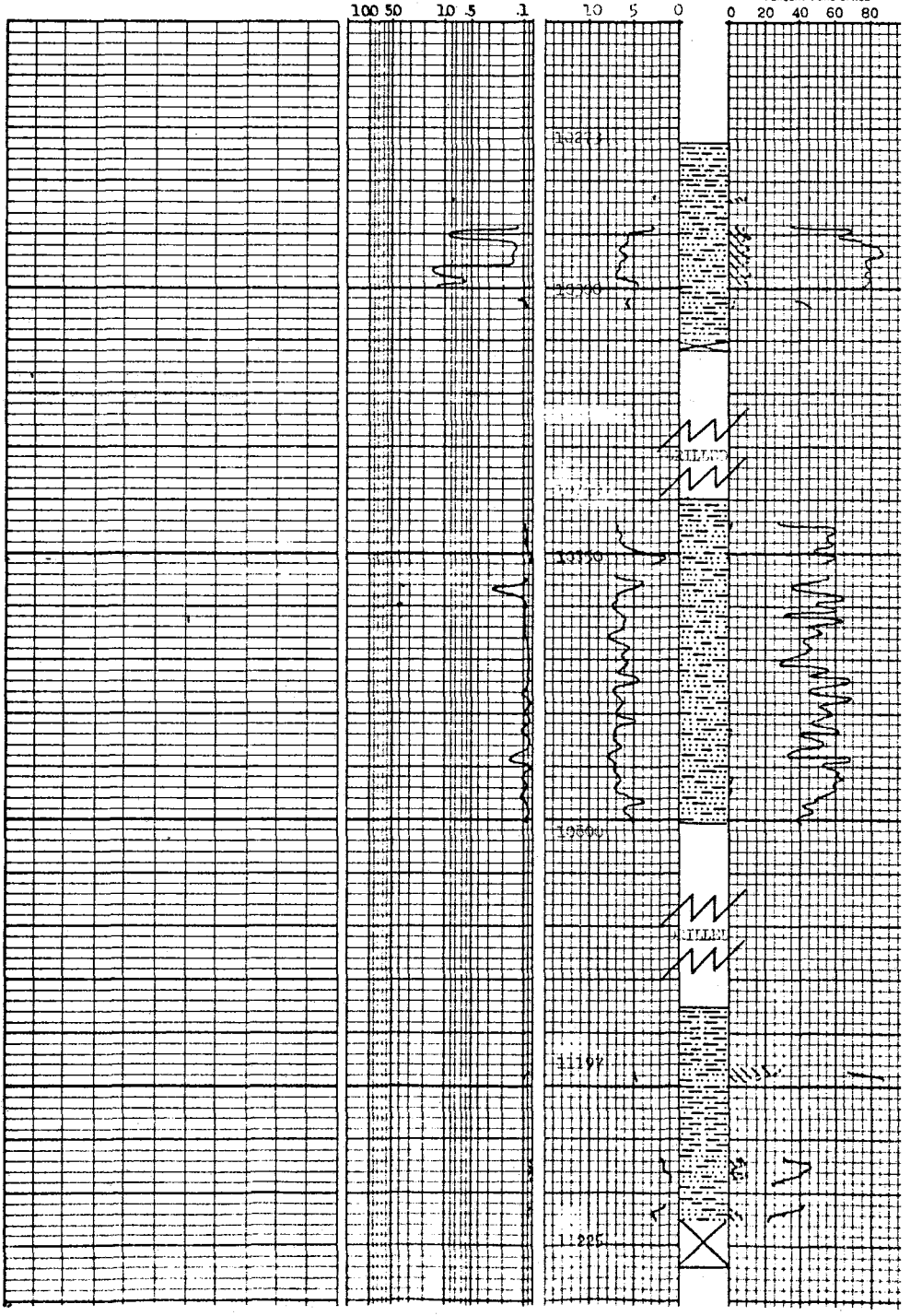
COREGRAPH

TOTAL WATER
PERCENT TOTAL WATER
80 60 40 20

PERMEABILITY
MILLIDARCYS
100 50 10 5 1

POROSITY
PERCENT
10 5 0

OIL SATURATION
PERCENT PORE SPACE
0 20 40 60 80



FORMATION NAME AND DEPTH INTERVAL: Mesa Verde - 10,288.0 - 10,300.0 Feet

FEET OF CORE RECOVERED FROM ABOVE INTERVAL	12	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	26.5
FEET OF CORE INCLUDED IN AVERAGES	12	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE	25 (e)
AVERAGE PERMEABILITY: MILLIDARCYS	0.56	OIL GRAVITY: °API	42 plus (e)
PRODUCTVE CAPACITY: MILLIDARCY-FEET	6.74	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
AVERAGE POROSITY: PER CENT	5.6	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	1.50 (e)
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	9.85	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	217

Calculated maximum solution gas drive recovery is barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. *(Please refer to footnotes for further discussion of recovery estimates.)*

(c) Calculated (e) Estimated (m) Measured (*) Refer to attached letter

INTERPRETATION OF DATA

10,288.0 - 10,300.0 Feet - Possibility of high gas-oil ratio production after artificial stimulation. Characterized by low permeability and porosity. Best interval for completion attempt.

10,300.0 - 11,225.0 Feet - Essentially non-productive due to low permeability and porosity. Increase in water saturations and decrease in oil saturations.

These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors.

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WESTERN EXPLORATION DIVISION
EXXON COMPANY, U.S.A.
TRANSMITTAL FORM

To Placid Oil Company From Bill Grieves

Well Wilkin Ridge Unit #1 Date January 16, 1975

Transmitted herewith are the following for the subject well:

Quantity	Item	Interval	Remarks
	Dual Induction Log		
	Induction Electric Log		
	Sonic Log w/S.P.		
	Sonic Log w/G.R.		
	Density Log w/G.R.		
	Sidewall Neutron		
	Compensated Neutron		
	Continuous Dipmeter		
	Continuous Dipmeter Plot		
	Cont. Dipmeter Printout		
	Proximity-Microlog		
	Perforating Depth Control		
	Cement Bond Log		
	Cased Hole Neutron		
	Temperature Log		
	Synergetic Logs		
	Mudlogs		
	Sidewall Cores		
	Sidewall Core Description		
	Sidewall Core Analysis		
	Conventional Cores		
	Core Description		
2	Core Analysis	10282-11224	Core Lab Report
	Unwashed Cuttings		
	Washed & Dried Samples		
	Sample Description		
	Canned Cuttings		

Receipt Acknowledged [signature] Date 1-17-75

Return signed receipt to: Exxon Company, U.S.A.
P. O. Box 120
Denver, CO 80201
Attn: Mr. John R. Switzer

CL-511-1

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
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Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG:EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
		(K_A)	*			
1	10282-83	0.09	2.7	9.2	55.3	Sd Drk Gy V/Fn Grn V/Silty Clay
2	10288-89	0.10	2.4	9.3	64.9	Sd Drk Gy V/Fn Grn V/Silty Clay
3	89-90	0.92	5.5	9.7	31.2	Sd Gy V/Fn Grn Silty Clay
4	90-91	0.14	5.5	11.4	35.7	Sd Gy V/Fn Grn Silty Clay
5	91-92	0.14	5.5	8.5	20.5	Sd Gy V/Fn Grn Silty Clay
6	92-93	0.11	6.9	10.7	18.3	Sd Gy V/Fn Grn Silty Clay
7	93-94	0.12	5.7	8.2	13.1	Sd Gy V/Fn Grn Silty Clay
8	94-95	0.13	5.1	10.9	21.8	Sd Gy V/Fn Grn Silty Clay
9	95-96	0.23	6.3	9.2	23.8	Sd Gy V/Fn Grn Silty Clay
10	96-97	1.6	6.2	9.5	21.8	Sd Gy V/Fn Grn Silty Clay
11	97-98	1.3	6.8	11.6	23.2	Sd Gy V/Fn Grn Silty Clay
12	98-99	0.65	6.7	8.9	20.4	Sd Gy V/Fn Grn Silty Clay
13	10299-00	1.3	4.8	10.3	23.6	Sd Gy V/Fn Grn Silty Clay
14	10301-02	0.11	5.9	3.6	61.5	Sd Gy V/Fn Grn Silty Clay
15	02-03	0.08	5.5	4.2	54.2	Sd Gy V/Fn Grn Silty Clay
16	10744.4	0.07	6.9	2.0	72.1	Sd Drk Gy V/Fn Grn Silty Clay
17	45.1	0.06	6.8	0.0	40.0	Sd Drk Gy V/Fn Grn Silty Clay
18	46.9	0.06	6.3	0.0	44.4	Sd Drk Gy V/Fn Grn Silty Clay
19	47.4	0.06	6.5	0.0	44.1	Sd Drk Gy V/Fn Grn Silty Clay
20	48.3	0.05	5.7	0.0	40.4	Sd Drk Gy V/Fn Grn Silty Clay
21	49.5	0.05	5.0	0.0	51.5	Sd Drk Gy V/Fn Grn Silty Clay
22	50.4	0.01	1.4	0.0	40.3	Sd Drk Gy V/Fn Grn Silty Clay
23	51.2	0.03	2.3	0.0	47.4	Sd Drk Gy V/Fn Grn Silty Clay
24	10754.4	0.07	6.5	0.0	44.4	Sd Drk Gy V/Fn Grn Silty Clay
25	55.3	0.06	4.0	0.0	63.4	Sd Drk Gy V/Fn Grn Silty Clay
26	56.5	0.28	5.1	0.0	63.8	Sd Drk Gy V/Fn Grn Silty Clay
27	57.3	0.14	7.0	0.0	48.6	Sd Drk Gy V/Fn Grn Silty Clay
28	58.1	0.11	7.0	0.0	35.4	Sd Drk Gy V/Fn Grn Silty Clay
29	59.7	0.08	7.3	0.0	50.2	Sd Drk Gy V/Fn Grn Silty Clay
30	60.2	0.07	6.8	0.0	36.3	Sd Drk Gy V/Fn Grn Silty Clay
31	61.2	0.07	6.4	0.0	65.1	Sd Drk Gy V/Fn Grn Silty Clay
32	62.8	0.06	6.4	0.0	37.2	Sd Drk Gy V/Fn Grn Silty Clay
33	63.5	0.05	5.9	0.0	55.7	Sd Drk Gy V/Fn Grn Silty Clay
34	64.1	0.04	6.1	0.0	51.1	Sd Drk Gy V/Fn Grn Silty Clay
35	65.4	0.05	7.9	0.0	47.8	Sd Drk Gy V/Fn Grn Silty Clay

* BOYLE'S LAW POROSITY - HUMIDITY CONTROLLED OVEN

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CL-511-1

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
Well NO. 1 WILKIN RIDGE UNIT Core Type DIAMOND 4" Date Report 11-2-74
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG;EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

Lithological Abbreviations

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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS (K_A)	POROSITY PER CENT *	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
36	10766.2	0.04	7.2	0.0	59.2	Sd Drk Gy V/Fn Grn Silty Clay
37	67.3	0.03	5.5	0.0	54.8	Sd Drk Gy V/Fn Grn V/Silty Clay
38	68.4	0.04	6.2	0.0	55.9	Sd Drk Gy V/Fn Grn V/Silty Clay
39	69.2	0.04	6.2	0.0	63.4	Sd Drk Gy V/Fn Grn V/Silty Clay
40	70.2	0.02	5.5	0.0	69.8	Sd Drk Gy V/Fn Grn V/Silty Clay
41	71.4	0.04	5.9	0.0	45.8	Sd Drk Gy V/Fn Grn Silty Clay
42	72.7	0.05	6.7	0.0	56.2	Sd Drk Gy V/Fn Grn Silty Clay
43	73.4	0.03	4.5	0.0	38.5	Sd Drk Gy V/Fn Grn Silty Clay
44	74.2	0.05	6.4	0.0	34.6	Sd Drk Gy V/Fn Grn Silty Clay
45	75.4	0.05	7.1	0.0	53.1	Sd Drk Gy V/Fn Grn Silty Clay
46	76.8	0.07	7.1	0.0	51.3	Sd Drk Gy V/Fn Grn Silty Clay
47	77.5	0.05	6.8	0.0	32.9	Sd Drk Gy V/Fn Grn Silty Clay
48	78.3	0.05	6.6	0.0	47.5	Sd Drk Gy V/Fn Grn Silty Clay
49	79.3	0.05	6.5	0.0	42.3	Sd Drk Gy V/Fn Grn Silty Clay
50	80.4	0.08	6.9	0.0	42.6	Sd Drk Gy V/Fn Grn Silty Clay
51	81.4	0.03	4.9	0.0	53.0	Sd Drk Gy V/Fn Grn V/Silty Clay
52	82.1	0.10	6.8	0.0	50.2	Sd Drk Gy V/Fn Grn Silty Clay
53	83.7	0.05	7.0	1.2	39.0	Sd Drk Gy V/Fn Grn Silty Clay
54	84.7	0.06	7.1	0.0	59.6	Sd Drk Gy V/Fn Grn Silty Clay
55	85.2	0.04	6.3	0.0	45.0	Sd Drk Gy V/Fn Grn Silty Clay
56	86.4	0.05	6.2	0.0	49.5	Sd Drk Gy V/Fn Grn Silty Clay
57	87.1	0.08	7.7	0.0	66.5	Sd Drk Gy V/Fn Grn Silty Clay
58	88.7	0.15	8.0	0.0	34.7	Sd Drk Gy V/Fn Grn Silty Clay
59	89.4	0.05	7.1	0.0	47.8	Sd Drk Gy V/Fn Grn Silty Clay
60	90.2	0.06	7.3	0.0	41.1	Sd Drk Gy V/Fn Grn Silty Clay
61	91.3	0.07	6.9	0.0	38.0	Sd Drk Gy V/Fn Grn Silty Clay
62	92.8	0.07	6.6	1.4	35.7	Sd Drk Gy V/Fn Grn Silty Clay
63	93.4	0.07	7.3	0.0	41.3	Sd Drk Gy V/Fn Grn Silty Clay
64	94.3	0.09	6.9	1.3	40.6	Sd Drk Gy V/Fn Grn Silty Clay
65	95.4	0.06	6.7	0.0	47.2	Sd Drk Gy V/Fn Grn Silty Clay
66	96.3	0.04	3.3	0.0	51.2	Sd Drk Gy V/Fn Grn Silty Clay Carb
67	97.8	0.03	5.7	0.0	58.7	Sd Drk Gy V/Fn Grn Silty Clay
68	98.4	0.04	6.1	1.9	53.5	Sd Drk Gy V/Fn Grn Silty Clay
69	99.4	0.03	5.5	0.0	62.0	Sd Drk Gy V/Fn Grn Silty Clay
70	10800.6	0.03	4.7	0.0	59.6	Sd Drk Gy V/Fn Grn Silty Clay

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS (K_A)	POROSITY PER CENT *	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
71	11197.5	0.02	4.9	27.6	31.5	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
72	98.4	0.07	4.8	15.9	13.6	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
73	11213.8	0.01	2.0	5.7	68.6	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
74	14.6	0.02	1.6	9.2	55.2	Sd Drk Gy V/Fn Grn V/Silty Clay
75	15.7	0.01	1.5	0.0	57.4	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
76	16.3	0.01	1.0	10.1	60.6	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
77	17.3	0.01	1.0	0.0	76.3	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
78	11222.4	0.02	1.5	0.0	58.0	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
79	23.7	0.02	2.7	4.6	64.0	Sd Drk Gy V/Fn Grn V/Silty Clay
80	24.7	0.02	2.4	7.7	77.4	Sd Drk Gy V/Fn Grn V/Silty Clay

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CL-508

CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY EXXON COMPANY, U.S.A. FIELD WILDCAT FILE 9106 RP-2-4776

WELL NO. 1 WILKIN RIDGE UNIT COUNTY DUCHESNE DATE 11-2-74

LOCATION SE NW SEC 29-T10S-R17E STATE UTAH ELEV. 6193'KB

CORE-GAMMA CORRELATION

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VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG
(PATENT APPLIED FOR)

GAMMA RAY
RADIATION INCREASE →

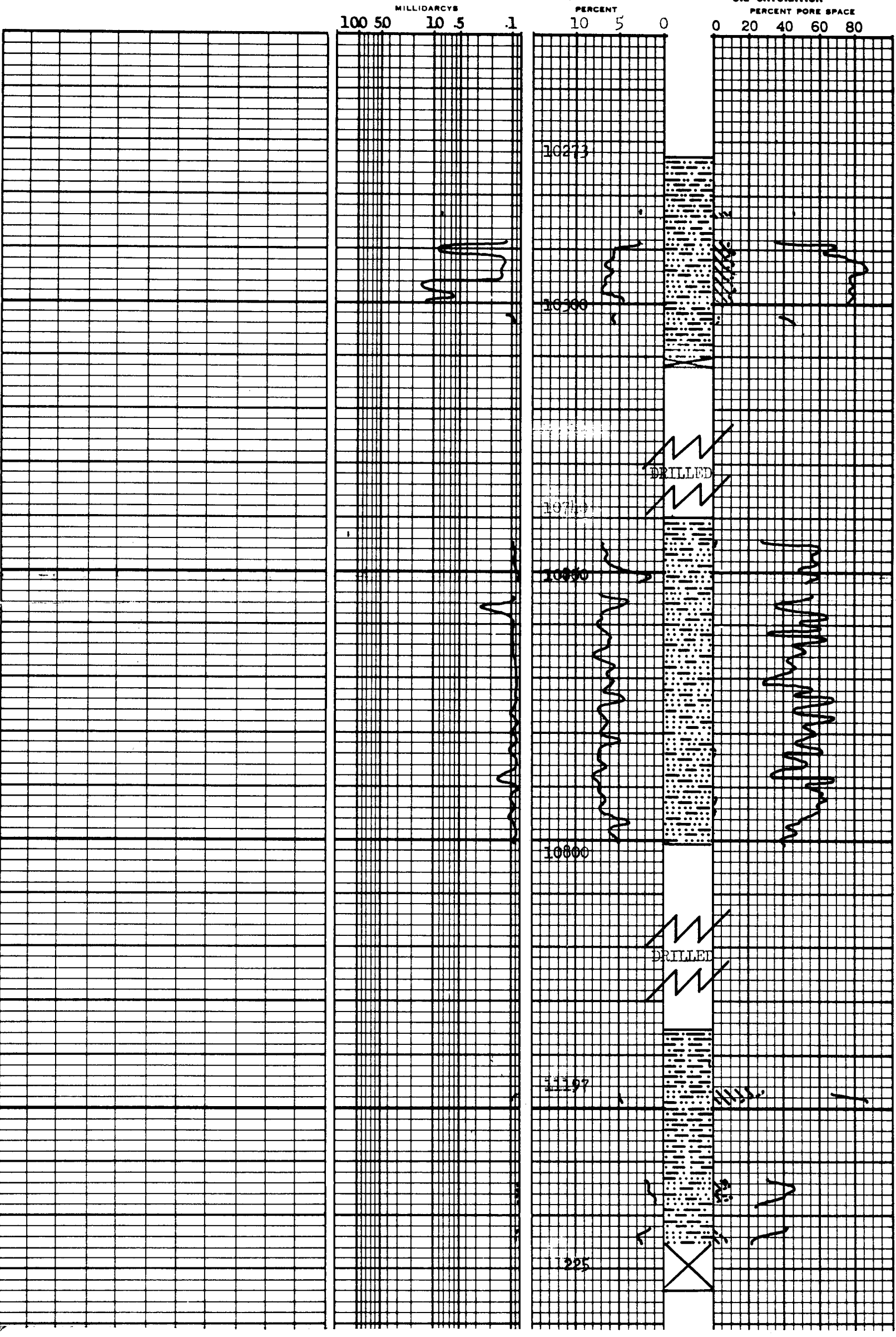
COREGRAPH

TOTAL WATER
PERCENT TOTAL WATER
80 60 40 20 0

PERMEABILITY
MILLIDARCYS
100 50 10 5 1

POROSITY
PERCENT
10 5 0

OIL SATURATION
PERCENT PORE SPACE
0 20 40 60 80



CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME AND DEPTH INTERVAL: Mesa Verde - 10,288.0 - 10,300.0 Feet

FEET OF CORE RECOVERED FROM ABOVE INTERVAL	12	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	26.5
FEET OF CORE INCLUDED IN AVERAGES	12	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE	25 (e)
AVERAGE PERMEABILITY: MILLIDARCYS	0.56	OIL GRAVITY: °API	42 plus (e)
PRODUCTVE CAPACITY: MILLIDARCY-FEET	6.74	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
AVERAGE POROSITY: PER CENT	5.6	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	1.50 (e)
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	9.85	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	217

Calculated maximum solution gas drive recovery is barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. *(Please refer to footnotes for further discussion of recovery estimates.)*

(c) Calculated (e) Estimated (m) Measured (*) Refer to attached letter

INTERPRETATION OF DATA

10,288.0 - 10,300.0 Feet - Possibility of high gas-oil ratio production after artificial stimulation. Characterized by low permeability and porosity. Best interval for completion attempt.

10,300.0 - 11,225.0 Feet - Essentially non-productive due to low permeability and porosity. Increase in water saturations and decrease in oil saturations.

These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors.

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. BOX 2794
CASPER, WYOMING 82601

GAS ANALYSIS REPORT

OMPANY: Exxon Co., U.S.A.
ELL NO. : Unit #N-1
IELD: Wilkins Ridge
OUNTY:
TATE:
INE PRESSURE: - PSIG
EMPERATURE: - DEGREES F

DATE: December 10, 1974 LAB. NO. 14495
LOCATION:
FORMATION:
DEPTH:
SAMPLING POINT:
SAMPLE PRESSURE: 0 PSIG
CONTAINER NO. theirs

Sample taken 11-15-74 @ 12:15a.m. (no other information given)

COMPONENT	MOLE % OR VOLUME %	GALLONS PER MCF
OXYGEN	0.00	
NITROGEN	5.03	
CARBON DIOXIDE	0.00	
HYDROGEN SULFIDE	0.00	
METHANE	78.48	
ETHANE	11.31	
PROPANE	3.14	0.861
ISO-BUTANE	0.70	0.228
N-BUTANE	0.55	0.174
ISO-PENTANE	0.24	0.088
N-PENTANE	0.13	0.047
HEXANES & HIGHER	0.42	0.193
TOTAL	100.00	1.591

GPM OF PENTANE & HIGHER FRACTION..... 0.328

GROSS BTU/CU FT @ 60F & 14.7 PSIA(DRY BASIS).. 1152.
SPECIFIC GRAVITY (CALCULATED FROM ANALYSIS)... 0.697
SPECIFIC GRAVITY (MEASURED)..... 0.695

RKS: ANALYSIS CORRECTED FOR 14.23 % AIR CONTAMINATION

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

CONFIDENTIAL

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980' FNL, 2055' FWL, Sec. 29, T10S, R17E, S.L.M.
Duchesne County, Utah

5. LEASE DESIGNATION AND SERIAL NO.
Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Wilkin Ridge Unit

8. FARM OR LEASE NAME

9. WELL NO.
Exxon #1 Wilkin Ridge Unit

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29,T10S,R17E, SLM

14. PERMIT NO.
API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6192' RDB

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) OPERATIONS			X
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

10-1-75: Flowed and tested well. Shut well in @1330, 10-1-75, and pumped into tubing a total of 60 bbl 1% KCl water and 2500 lb 20-40 mesh sand. Sand to be allowed to settle to bottom to add fill up to about 11,700' as an attempt to shut off water. (This plugback w/sand is in accord w/phone call from Exxon's J. W. Jackson to U.S.G.S.' E. W. Guynn this date.)

10-2-75: Opened well at 1500, 10-2-75, to resume flow test and evaluation.

10-3-75 to 0600 10-14-75: Flow and test well; continues to produce some water. Ran Otis wire line on 10-5-75 and tagged solid bottom (sand fill) at 11,729' odometer measurement. Ran GO International Inc. Temperature Surveys and Noise Logs for use in evaluating well, tagged fill @11,715' relative to casing collars while logging on 10-13-75.

10-14-75: Shut well in @0600, 10-14-75, pending further evaluation and development of plans for future action, in 1976, after shut-in through winter.

NOTE: Two monthly reports (Lessee's Monthly Report of Operations, and Lessee's Monthly Report of Sales and Royalty) will be filed after close of October business.

EGH:bt

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Division Drilling Manager DATE 10-16-75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

40.

Denver Copy

COMPLETION PROCEDURE FOR WILKIN RIDGE #1

1. Displace cement with 2% KCl water with 5-1/2" casing set at 12,390'.

2. Land 5-1/2" casing and install 5000# x 10,000# tubing head.

3. Install 10,000# 7-1/16" BOP stack consisting of a double Shaffer, cross-over, and a single Shaffer. Test BOP's to 10,000 psi and casing to 7,200 psi.

4. Run Schlumberger GR-Collar Log TD to 9000' and cement Bond Log. Check plugback.

5. Pick up and run 2-7/8" EUE tubing and land at 10,150' with Otis nipples as per attached sketch.

6. Install 10,000# 2-1/2" Christmas tree. Rig up Schlumberger and run thru tubing Gamma Ray Collar Log.

7. Based on Sonic Gamma Ray Log, perforate 5-1/2" casing selectively with ~~58~~ 48 2" OD, 0.34" ID holes using Hyperjet Schlumberger thru tubing gun with magnetic positioner at the depths shown on attached table.

8. Rig up Halliburton on tubing and casing with approximately 2000 HHP and establish breakdown and injectivity rate using 2% KCl water. Inject ball sealers until complete ball off obtained on above-described ~~58~~ 48 perforations.

9. Rig up NOWSCO and displace all fluid in annulus and tubing with nitrogen.

10. Place well on production test thru Stooksberry one million BTU heater and 15 million cu. ft./D separator, measuring liquid recovery in stock tanks and flaring produced gas. Maintain accurate record of formation gas flared.

11. After obtaining stable flow, run Schlumberger gradiomanometer and flow meter.

12. Obtain two representative gas samples at Stooksberry's gas separator for lab analysis.

13. Rig up Otis wireline and run two Amerada bottom hole pressure bombs (72 hr. clocks, 8000 to 10,000 psi springs), and set in N-locking mandrel.

14. After completing primary production test, shut in, recording casing and tubing pressure with 2-pen recorder during build-up.

15. After a shut-in time equal to flow time, or earlier if surface pressures indicate static tubing pressure, rig up Otis and recover subsurface pressure bombs.

16. Kill well by circulating and bullheading 12.3#/gal. brine and observe well for flow. If well flows and/or shuts in with greater than 100 psi, circulate salt water system and add additional salt to obtain necessary hydrostatic head to kill well. Heat salt water, if necessary, to weight up.

17. Install Otis back pressure valve in Otis X nipple near bottom of tubing.

18. Remove Christmas tree and install one 5000 psi Hydril BOP and Guiberson stripper.

19. Pull and stand 2-7/8" tubing in derrick.

20. Complete rigging up for massive frac treatment, removing the Hydril BOP and installing HOWCO's 15,000# 4-1/2" frac manifold to upper 10,000# single Shaffer BOP.

21. Stimulate the Mesa Verde down 5-1/2" casing with a maximum of 7,200 psi as outlined in the attached massive-frac treatment.

22. After frac job, conduct extended production test to evaluate massive frac treatment, measuring and flaring produced gas and selling produced liquids to Permian (prepare appropriate Company, State and Federal forms, indicating recovered frac oil and formation gas flared).

23. After 2 or 3 day period, check produced fluids for sand content and ratio of frac condensate and water. If no sand, run Otis wireline with feeler and check opposite perforations for sand bridges with well SI.

24. If casing is open opposite perforations without significant sand fill, rig up to produce at high rates to draw casing pressure down below 100 psi.

25. At such time as able to maintain flowing casing pressure at 100 psi or less for significant period, rig up Otis lubricator on 7-1/16" 10,000# flange and run Otis Perma-Drill 5-1/2" production packer with J-slot and set at approximately 10,150' with well shut in.

26. Resume production after removing Otis equipment and install 5000# Hydril and Guiberson stripper.

27. Install TX and TN input valves in lower nipples. Strip in 2-7/8" tubing string with Otis latch-in and seal assembly below previous tubing seating assembly.

28. Hang off 2-7/8" tubing and remove BOP equipment.

29. Space out and land tubing with 10,000 psi 2-1/2" Christmas tree.

30. After testing tree and flanges, rig up Otis and remove TX & TN input valves.

31. Place well back on production for an extended period until well stabilizes and proves commercial.

32. If well commercial, install Otis plug in X nipple at 3250' and McEvoy Christmas Tree blanking plug.

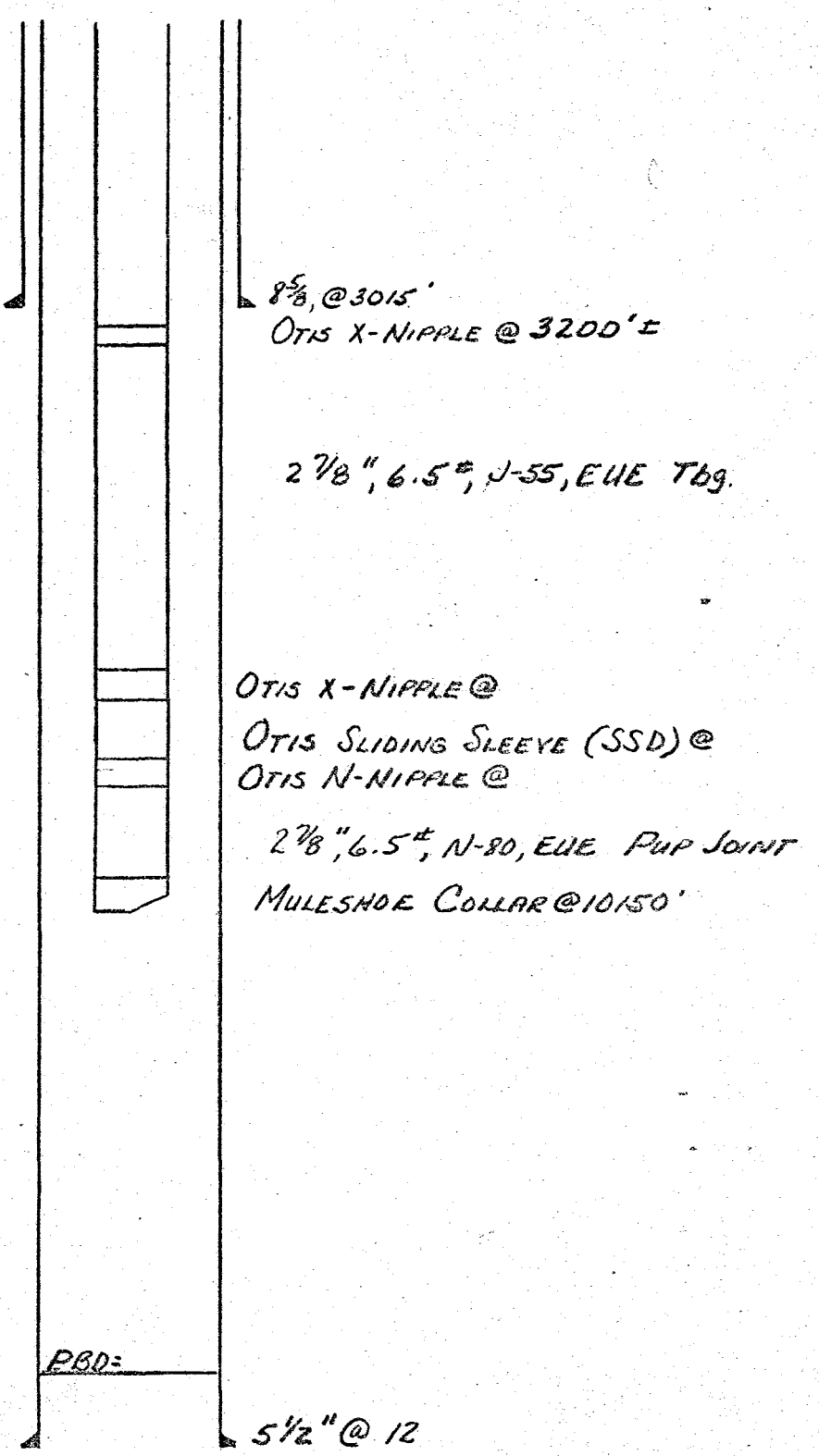
33. Rig down Brinkerhoff rig and move to next location.

34. Lay 5" welded flow line to nearby Mountain Fuel gas sales line and place well on production for six months' period to continue evaluating massive frac treatment. Equip surface production equipment with necessary metering and dehydrating facilities to operate unattended.

GDT/sjg

December 10, 1974

EXXON #1 WILKIN RIDGE UNIT
WELLBORE SCHEMATIC



12/9/74
RS

Exxon
No. 1 Wilkin Ridge Unit
Nine Mile Canyon
Sec. 29-T10S-R17E
Duchesne County, Utah

INTERVALS SELECTED FOR FRACTURING

EXXON #1 WILKIN RIDGE UNIT

Interval	Gross Thickness	Perforations
Depths from Run #1 BHC-Gamma Ray		
~~10235~~-10365	~~130~~	~~10241, 10248, 10255, 10278, 10284, 10305, 10313, 10330, 10340, 10350~~
10505-10615	110	10535, 10544, 10555, 10584, 10600, 10607
10885-10925	40	10902, 10910, 10918
10950-11045	95	10966, 10973, 10980, 11018, 11027, 11036
11065-11090	25	11070, 11079, 11085
11135-11195	60	11142, 11148, 11166, 11174, 11187
11285-11335	50	11296, 11303, 11324
Depths from Run #2 BHC-Gamma Ray		
11490-11510	20	11504
11540-11590	50	11552, 11562, 11577, 11584
11795-11830	35	11806, 11815, 11823
11880-12140	260	11885, 11898, 11908, 11918, 11960, 11968, 11994, 12004, 12014, 12062, 12068, 12118, 12124, 12130
Total	~~875~~ 745	~~58~~ 48

Exxon
No. 1 Wilkin Ridge Unit
Nine Mile Canyon
Sec. 29-T10S-R17E
Duchesne County, Utah

BREAKDOWN PROCEDURE

Pump 500 barrels of 2% KCl Water down the tubing and annulus at ± 15 BPM utilizing 2000 HHP. Drop 2 balls every 250 gallons in the first 5,000 gallons, drop 3 balls every 250 gallons in the next 5,000 gallons, displace to Perfs.

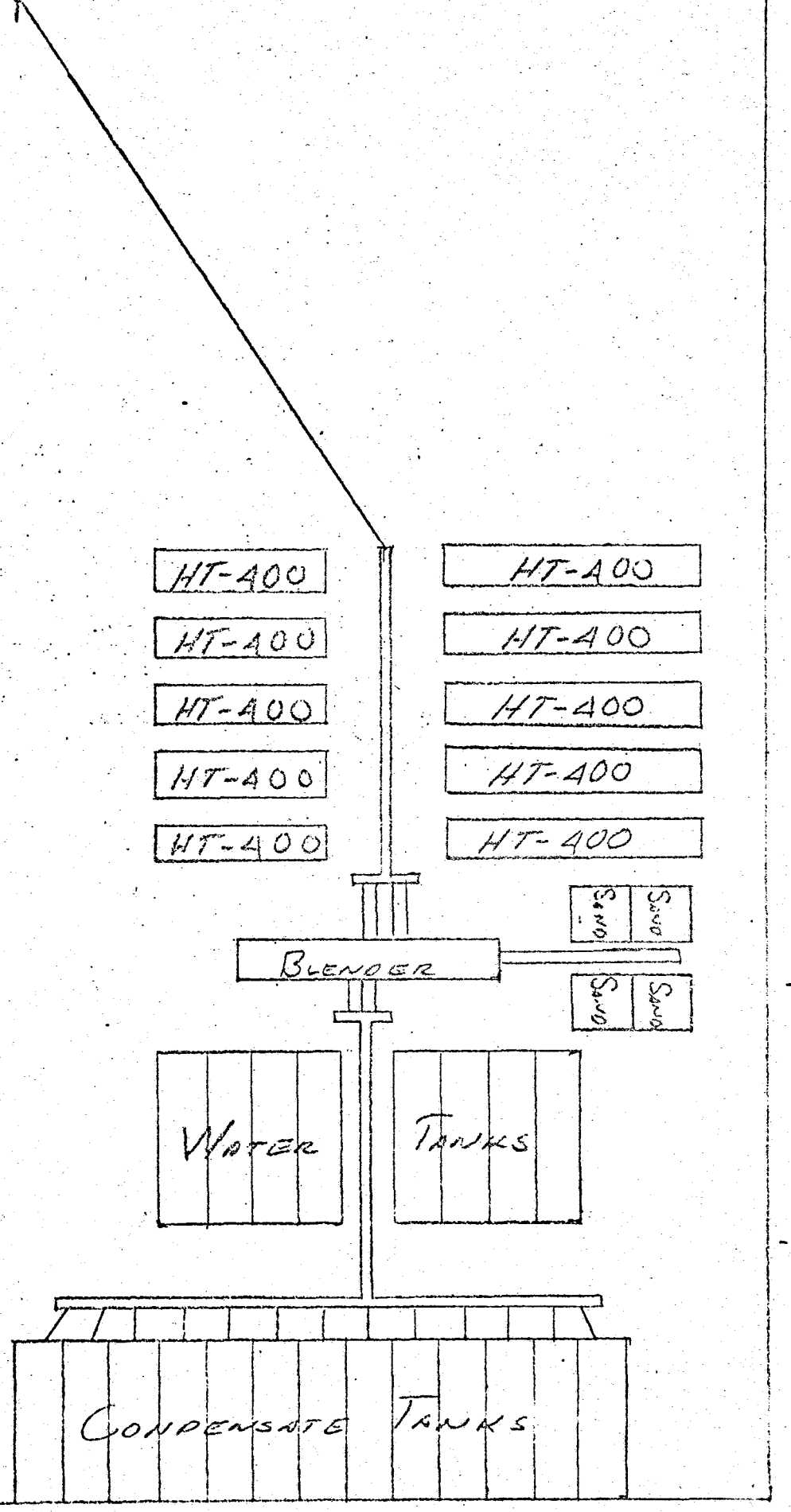
FRAC PROCEDURE

Frac Fluid will be Super Emulsifrac with the water phase containing 50 lb/M WG-6, 5 gal/M SEM-5, .5 gal/M Adocide, 10 lb/M CW-1, 125 lb/M KCl, .5 gal/M NF-1.

Utilize 10,000 HHP and treat down casing at ±40 BPM with a wellhead pressure of 7000 PSI.

GALLONS	EVENT	SAND 40/60	SAND 20/40
20,000	Sem Pad		
25,000	1 PPG 40/60 Sand	25,000	
20,000	2 PPG 40/60 Sand	40,000	
20,000	3 PPG 40/60 Sand	60,000	
20,000	3 PPG 20/40 Sand		60,000
20,000	4 PPG 20/40 Sand		80,000
5,000	Special SEM Pad with RCN Balls		
15,000	Sem Pad		
25,000	1 PPG 40/60 Sand	25,000	
20,000	2 PPG 40/60 Sand	40,000	
20,000	3 PPG 40/60 Sand	60,000	
20,000	3 PPG 20/40 Sand		60,000
20,000	4 PPG 20/40 Sand		80,000
5,000	Special SEM Pad with RCN Balls		
15,000	Sem Pad		
25,000	1 PPG 40/60 Sand	25,000	
20,000	2 PPG 40/60 Sand	40,000	
20,000	3 PPG 40/60 Sand	60,000	
20,000	3 PPG 20/40 Sand		60,000
20,000	4 PPG 20/40 Sand		80,000
±12,500	Flush to Perfs with 2% KCl Water		
387,500		375,000	420,000

Exxon
No. 1 Wilkin Ridge Unit
Nine Mile Canyon
Sec. 29-T10S-R17E
Duchesne County, Utah



GEOLOGICAL FIELD SHEET

STATE & COUNTY Duchesne County, Utah ELEV. 6193' KB

OPERATOR Exxon

FEE OWNER #1 Wilkin Ridge Unit

LOCATION SURVEY SEC.-TWP.-RNG. 29-10S-17E

Bill Grieves 761-6470 ext. 342

BEG.: COMP.:

CASING RECORD | COMPLETION RECORD

TOPS

SAMPLE | SCHLUMBERGER

FOR 511-SCOUT REPORT

THE M. L. BATH COMPANIES SHREVEPORT—LONGVIEW—LAKE CHARLES BATH-O-GRAM REG. NO. 513,391 U. S. PAT. OFF.

MISCELLANEOUS INFORMATION

9/3/74 Spudded @ 7:45 pm 9-1-74. Now drilling w/partial returns below 712'.

9/4/74 Drilling below 1162' in the Uinta fm. @ 450'/day. Lost approx. 200 bbls. mud.

9/5/74 Drilling below 1781'.

9/6/74 Drilling below 2208' in the Green River shale w/only a few tarry oil shows. Gas is 5-25 units (avg. 10); current drill rate 205 min/ft.

9/9/74 Fishing. Drilled to 2708', dropped string while making conn. POH w/fish, found shock sub parted leaving bit and near bit assembly in hole. Longth of fish 11.82'. Now GIH to rec. fish.

WELL LOG

BOTTOM	FORMATION	BOTTOM	FORMATION	BOTTOM	FORMATION
9/10/74	Tripping in hole. Latched on to fish w/overshot, jarred loose and POH. Left ½ orifice ring in hole. Went in hole w/bit and junk basket, rec. junk. Now going in hole w/bit.				
9/11/74	Drilling 2 2835' - averaging 15'/hr. Will drill to 3000' - will run logs tonight and set surf. 8 5/8"/ 50% shale, 20% oolitic ls, 30% clc. slts., N/S				
9/12/74	Prep. to log @ 3023'. At 2890 lithology changed from ls facies to a shale facies, equiv. to 3000-3100' in MFS Wells Draw #3. Mud gas 0-16 units, avg. 4. Drill rate 6.9-25'/hr., avg. 10. Poor, residual shows in sands @ 2910', 2955' and 3000'.				
9/13/74	Rigging up to run csg. Ran DIL and FDC logs. Green River top 1792' (+4401').				
9/16/74	Ran and set 8 5/8" csg. @ 3015' w/1700 sx. cement. Nippled up and tested BOP's. Lower ram leaked. Prep. to change out BOP. TD 3023'.				
9/17/74	Changed out BOP's and tested; OK. Prep. to drill out within 24 hrs. TD 3023'.				
9/18/74	Pipe rams checked out OK, but Hydril leaked; now replacing Hydril for the third time.				
9/19/74	Tested Hydril; leaked. Changed out Hydril; prep. to retest.				

Form.	Exp. Tops	Actual	Corr.
Uinta (Tertiary)	Surface	1792' (+4401)	43' low to MFS #3 Wells Draw
Green River	1800' (+4395')		
Green River "D"	3115' (+2880')		
*Wasatch (Tertiary)	4815' (+1380')	5130' (+1063')	3' low to MFS #3 Wells Draw
*Mesa Verde (Cret.)	8818' (-2620')	8650' (-2457')	167' hi to MFS #3 WD
Mancos (Cret.)	11315' (-5120')		

*Primary Objectives **Top may be lowered to 9310'

9/20/74	Tested Hydril - OK. Tested csg. - OK. RIH; tagged cement @ 2918'; drilled out; tested formation to 550# (equiv. of 12.2 ppg mud). Now drilling ahead @ 3064. TD 3064'.				

#1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

9/23/74 Drilling ahead in Green River - sand, sh & sltst. Had poor residual oil shows at 3765-85' and 4000-10' w/20-24 units of gas and dull gold sample fluorescence. TD 4169'

9/24/74 Made trip @ 4211' to change bits. Drilling sand, sh and ls in the Green River below 4225' w/no shows. Left 11 bearings, 3 inserts & 1/3 cone in hole. TD 4225'.

9/25/74 Drilling in the uppermost tongue of the Wasatch below 4607'. Top of the Wasatch Tongue was 4506' (+1687); this is about as predicted. A Wasatch sand, 4515-60' had 20 units of gas.

9/26/74 Drilling below 4927' in sand and sh. with no shows. Now drilling in Green River facies; base of the 1st Wasatch Tongue was @ 4825'.

9/27/74 Drilling below 5265' in the Wasatch w/no gas shows. Top of the Wasatch was at 5130' (+1063'). This is about as expected. The first core will be cut around 6000'.

9/30/74 Drilling below 6025' in variegated shale with no shows. A Wasatch sand, 5870-5920', was circulated out for a possible core, but it had no gas show. Next poss. core point is 6140'.

10/1/74 Drilling Wasatch shale below 6312'. Circulated out a sand @ 6120-31'. The sand was tight and had no shows. Plans are to core the first gas bearing sand.

10/2/74 Drilling below 6555' in Wasatch shale w/no shows. Circulated out a drilling break @ 6533'. Samples were tight sand w/no shows. Well is now 17' high to #3 Wells Draw.

10/3/74 Drilling below 6807' in Wasatch w/no shows. Lithology is varigated shale & siltstone with interbedded grey white to light brown calc. sandstone, very low porosity.

10/4/74 Drilling below 7057' in Wasatch sand & shale w/no shows. Had tight, calcareous sd. @ 6810-50' & 6920-60'. Md. wt. 8.8 ppg

10/7/74 Drilling below 7659' in Wasatch sand & shale w/no shows or gas. Drill rate is 10-12'/hr. (245'/day). Md. wt. 8.9 ppg.

10/8/74 Tripping for a new bit @ 7811' in the Wasatch. Lithology: red-brn sh w/few tight sd. stringers; drill rate 9-10'/hr.; N/S.

10/9/74 Drilling below 7991' (180'/day) in the Wasatch. Had 10' sd. w/no shows 7850-60'; remainder of section was sh. and slts. Md. wt. 9.0 ppg.

10/10/74 Drilling below 8224' in the Wasatch, w/no shows. Lithology red-brn sh. w/tight calcareous, silty sands. Drill rate 10-20'/hr.

10/11/74 Tripping for new bit @ 8339'. Had a drilling brk in a sand from 8250-65'; but no gas show. Will reach a potential core point at base of Wasatch this week-end.

10/14/74 Drilling below 8891' in the Mesa Verde w/NS Lithology: Tight fine gr. sands and gray sh. w/trace of ls. Drill rate: 6-15'/hr.

10/15/74 Drilling below 9075' in the Mesa Verde w/NS. Lithology is alternating tight sand and gray sh. The gas detector is tested daily and is working properly.

10/16/74 Drilling below 9166' in the Mesa Verde w/NS. Lithology is alternating tight sand and gray sh. Mud. wt. 9.0 ppg, made trip for bit @ 9078'.

10/17/74 Tripping for a new bit @ 9316'. Lithology: Alternating tight siliceous sand (8-10% porosity) and gray sh. Sand @ 9280-310' had 2 units gas. Drill rate was only 10-12 min./ft.

10/18/74 Drilling in Mesa Verde @ 9463' w/NS. Maximum 28 units mud gas in coal stringers 9430-40'. Gas detection system checks out OK.

10/21/74 Drilling below 9827' in the Mesa Verde w/no significant shows. Circ. out drilling breaks @ 9602' and 9688'; had max. 5 un. of gas.

#1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

10/22/74 Drilling below 10,012' in the Mesa Verde, w/NS. Lithology is 80% sh with a few scattered sand stringers. Next potential gas sand is expected @ 10,210'. Current background gas is 1-4 un.

10/23/74 Drilling below 10,097' in the Mesa Verde. Circulated out drilling break from 10,084-95'; samples were 20% sand, tight to friable, w/4 un. gas and N/S. Plans are to cut a core and possibly test within the next 200'.

10/24/74 Drilling below 10,250' in the Mesa Verde w/no significant shows. C.O. samples at 10,219-24' and 10,249-255'. Both intervals were 40-50% sand w/3-5 un. gas.

10/25/74 Circulated out drilling break 10,269-73 w/60% sand and 32 un. gas. Cut core #1 10,273-314(41') in 9 hrs. Had mx. 38 un. gas while coring. Now POH. Will test 10,225-314' Saturday.

10/28/74 Depth 10,306 - coring - began coring @ 10,273'. Drilling brk 10,269-73 (32 un. gas).
Core #1 10,273-312; rec. 37'
10' carb sh, 7' shly sd, 10' f-m sd w/gd odor, 1½" carb sh, 2' v fg shly sd, remainder brkn sd & sh.
DST #1 10,279-312
Iop 5 min., w/gd blow, SI 30, Op 120, gd blow dec to wk, SI 60
Rec. 90' GCM w/no gas to surf.
IH 4971
IF 143-112
ISI 275
FF 138-143
FSI 244
FH 4951
Drilled to 10,320; drilling brk 10,316-20 130-170 un/gas - drilling ahead.

Drilling below 10,320' in the Mesa Verde w/good gas shows. Ran DST #1 from 10,259-312'; rec. 90' gas cut mud w/no gas to surf. Circ. out 170 un. gas @ 10,316-20' after a good drilling break up to 27'/hr.

10/29/74 Drilling below 10,486' in the Mesa Verde w/no significant shows. Lithology is predominantly shale and siltstone below 10,370'.

10/30/74 TD 10,740 - prep. to run DST #2 (10,550-10,740) Gas shows from 10,500 to 10,740 (40-210 units gas) - est. 80' net sd.

10/31/74 TD 10,740 - lost circ. Mixing mud and lost circ. material - Md. wt. 9.2, V 45, WL 12.8 cl. 150 - prep. to core #2

11/1/74 TD 10,758' coring - 18' cut - 560 un. trip gas Expect to have core out of hole this afternoon. Md. wt. 9.1

11/2/74 10,803 drilling - Core #2 10,740-797 Rec. 57' ss w/scat. flour @ 750-772 Av. 6% por, Sw 55%, no oil in core analysis. Md. wt. 9.2, V 44, WL 12.4

11/3/74 10,991' drilling - drilling brk 10,970-990' 9'/hr-27'/hr - max. 350 units gas - 60% sd - 40% silts. - sd vfg, tite, calc. Md. wt. 9.1, V 38, WL 13.5

10/4/74 11,043 tripping - trip gas 896 units Gas show 11,000-11,030 - av. 200 units gas sd and silt - Md. 9.2, V 42, WL 13.3

11/5/74 11,150 circ., prep. to trip Md. wt. 9.3, V 46, WL 12.5 - sh and slt w/thin sand stringers - drilling brk 11067-74 (gas kick of 200 un.)

11/6/74 11,185 circ.; prep. to trip for core #3 Sd @ 11,150-185 vfg, well sorted, silc cement. Had 70-100 un. gas - Md. 9.3, V 40, WL 12.7

11/7/74 11,221 coring (core #3) Begin coring @ 11,185. Have cut 36'. While coring had 48-80 units mud gas. Poor samples; had 960 un. trip gas. Md. 9.4, V 40, WL 12.7

11/8/74 11,296' drilling - cut core #3 11,185-11,235 (50' - rec. 45' sh w/2-3' slts, N/S) Md. 9.4, V 41, WL 12.1

#1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

11/11/74 TD 11,509' driller - 11,521' logger
Tripping for new bit. Ran DIl, Dens-Neut,
Sonic, Dipmeter; top Mesaverde 9310'.

11/12/74 TD 11,608' drilling - circ. out drilling
break @ 11,550'. Break from 13-30'/hr.
Circ. up sand with 4-500 un. gas. Venting
gas through gas separator. 3½' flare
while drilling. Md. 9.5 in - 9.1 out
Plans are to drill well to TD without
additional cores or tests.

11/13/74 11,715' - raising mud weight from 9.8 to
10.3. Coming out of hole for new bit.
Background gas 1900 un. while circ.
Prep. to come out of hole.

11/14/74 11,715' - circ. Building mud weight to
11# per gallon. Attempting to pull out of
hole to change bits. 960 un. background gas.

11/15/74 TD 11,715' circ. Mud weight in 11.6 - out 10.8
Raising mud weight to 12# per gallon.
Attempting to pull out of hole.
Background gas 400 un.

11/16/74 11,715' circ. Prep. to trip for new bit.
sd, slts, sh; Md. 12.4 in - out 12.0
V 66, WL 11.7, ph 11, cl 220 ppm
12 hrs. circ., 12 hrs. tripping.

11/17/74 11,725' drlg., sd & sh, Md. 12.2, V66,
WL 11.7, ph 11, cl 220 ppm
Bit # 26 7 7/8" Smith F4 in @ 11,715'
Made 10' in 2 hrs.
2 hrs. drilling time in past 24 - 10'
22 hrs. tripping & circ.

11/18/74 11,796' drlg.; sd, slst, sh
Md. 12.2, V 66, WL 11.5, ph 11.6, cl 250 ppm
Bit in @ 11,715 - made 81' in 26 hrs.
24 hrs. drlt 71'.

11/19/74 11,823' tripping - back on bottom by now.
Tight 70-100% vfg sds. Md. 12.1, V 48, WL 11.6
ph 11.6 - Bit #26 7 7/8" Smith F4 in @ 11,715 -
made 108' in 36 hrs. - Bit #27 in @ 11,823'
Time in last 24 - 6 hrs. drlt. 29'
18 hrs. tripping and circ.

11/20/74 11,858' drilling - sd tite, calc.
Md. 12.0, V 58, WL 11.8, cl 250 ppm
Bit #27 7 7/8" HTC in @ 11,823' - made 35 in 173/4
113/4 - 25' - 8 tripping in hole
4¼ circ. drilling brk - drilling brk 11,842-11,856
fr. 2½'/hr. to 6'/hr. - 46-96 units gas.

11/21/74 11,919 tripping for new bit; sd & sh
Md. 12.3, V 47, WL 11.7, ph 11.4, cl 250 ppm
Bit #27 7 7/8" HTC in @ 11,823 - made 96 in 28¼
16½ hrs. drlt 61' - 4 3/4 tripping - 2 3/4 circ.

11/22/74 11,960 drilling - 80% sandstone
Md. 12.2, V 45, WL 12.2, ph 11.4, cl 250 ppm
14-34 un. background gas - 828 un. trip gas.
Bit # 28 J55R in @ 11,919; made 41' in 9 3/4
9 3/4 drilling time 41'
9 tripping; 5¼ other

11/23/74 12,042' circ.; prep. to trip
Md. 12.2, V 44, WL 12, ph 11.6, cl 250 ppm
20½ drlt. 82'; 3½ other

11/24/74 12,042' circ. on bottom after trip
Md. 12.2, V 44, Wl 12, ph 11.6, cl 250 ppm
13¼ tripping; 10 3/4 other

11/25/74 12,096'; Md. 12.2, V 42, WL 12.9, ph 11.1, cl 250
Straight hole test misrun
Bit #29 J55R in @ 12,042 - made 54' in 17 hrs.
17 drlt 54'; 7 other.

11/26/74 12,103' circ. bottoms up after trip.
Sd., silt, sh; Md. 12.2, V 41, WL 12.2, ph 11.1,
cl 250 ppm - Bit #29 7 7/8 SMF4 in @ 12,042 -
made 61' in 18 - Bit #30 7 7/8 SMF4 in @
12,103 - 1 hr. drlt. 7'; 12 tripping;
5 circ.; 6 attempt straight hole test & other.

11/27/74 12,136' tripping - sd & sh - Md. 12.2, V 43,
WL 12.2, ph 11.3, cl 250 ppm
Bit #30 7 7/8 SMF4 in @ 12,103 - made 33 in 9
Bit #31 7 7/8 SMF4 in @ 12,136
9 hrs. drlt 33'; 10 tripping; 4 3/4 circ.;
¼ rig service.

* #1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

11/29/74	12,308 drilling; sd - Md. 12.1, V 45, WL 11.2, ph 11.4, cl 350 ppm Bit #31 in @ 12,136 - made 172' in 43½ hrs. 23 3/4 hrs. drlt. 92' ¼ rig serv.
11/30/74	12,390 circ.; sd - Md. 12.1, V 35, WL 11.3, ph 11.3, cl 250 ppm Bit #31 in @ 12,136 - made 254' in 65 hrs. 21½ hrs. drlt 82'; ¼ rig serv.; 2¼ circ.
12-1-74	12,390 circ. out & cond. mud Md. 12.3, V 45-67, WL 12.1-12.3, ph 10.5, cl 850 ppm - o hrs. drlt; 3/4 circ.; 8¼ WO degasser; 7¼ circ.; 7 circ.
12/2/74	12,390 tripping out to log - Md. 12.8, V 51, WL 12.1, ph 10.8, cl 1100 ppm 0 hrs. drlt; 18½ circ.; 5½ tripping.
12/3/74	12,390 logging - Md. 12.8 21 hrs. logging; 3 tripping.
*11/28/74	12,216 tripping in hole - Md. 12.1, V 42, WL 13.2, ph 11.2, cl 250 ppm Bit #31 in @ 12,136 - made 80' in 19 3/4 hrs. 19 3/4 hrs. drlt 80'; 2½ trips; 1 3/4 other.
12/4/74	12,390 fishing - 10 hrs. trips; 14 hrs. fishing for sidewall core, gun stuck @ 12,003. Went in w/side door, overshot to 7000'; tool remained stuck; cable broke; rec. 4000' of cable; POH; will fish for 8000' of line and core gun.
12/5/74	12,390 - 24 hrs. fishing. Went in hole with spear to 4850'; POH. Rec. fish; left one sidewall core bullet in hole - rigging down to Schl.
12/6/74	12,390' - washing and reaming to bottom. Plans are to condition hole and run 5½" casing this weekend.
12/7/74	12,390 washing and reaming to bottom. Md. 12.7, V 46, WL 11.3, ph 11.2, cl 1150 24 hrs. washing and reaming to bottom.

12/8/74 — 12,390 circ. and cond. hole to run csg.
Md. 12.6, V 46, WL 12.5, ph 11.2, cl 1200
24 hrs. washing to bottom; circ. & cond. hole; laid down drill pipe & drill collars; rigged up to run 5½" csg.

12/9/74 — Running 5½" csg. 24 hrs. rigging up to run csg; running 201 jts. of 5½" csg. to 8500'.

12/10/74 — 12,390 WOC & nippling up BOP
Md. 12.7, V 57, WL 11.6, ph 11.5, cl 1250
24 hrs. running csg, WOC & nippling up BOP
Ran 75 jts p110
24 jts 20N80
194 jts 17N80
1 jt 20N80
Jts. 294 5½" set @ 12,390 - cemented w/1140 sx class "G" 4% gel.

12/11/74 — 12,390 tightning bolts on BOP stack.

12/12/74 — 12,390 finished nippling up and tested BOP's. Rigged up Schl. - going in hole to run gamma ray and cement bond logs.

12/13/74 — PBTD 12,306; going in hole w/servco mill & scraper.
24 hrs. - ran 3 3/8" GR-collar log to 5585'; hit tite spot in 5½" csg; pulled out of hole; went back in hole w/1 11/16" tool to 12,162'; logged from 12,154' to 9000'. Now going in w/servco mill & scraper.

12/14/74 — Going in hole w/mill & scraper; PBTD 12, 168'
24 hrs. cleaning out tight spot @ 5585'.

12/15/74 — Laying down tubing; PBTD 12, 168'
24 hrs. reamed from 12,160-12,168'.

12/16/74 — Running 2 7/8" tubing; PBTD 12, 168'
24 hrs. guage ring & junk basket to 12,180'
Ran csg. bond log 12,180-9000. No cement above 11,300'.

12/17/74 — PBTD 12,180 (corrected) - tripping out w/2 7/8" tubing to lay down RTTS tool. 24 hrs. ran RTTS packer to 10,000'; rigged up and attempted to run 1 11/16" cement bond tool but would not go thru packer. Will run tubing open ended and attempt to re-run cement bond log. Proposed perfs: 10,241; 10,248; 10,252; 10,255

#1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

12/18/74 PBTD 12,180'; hooking up Hydril
24 hrs. trip out and layed down RTTS tool.
Ran 2 7/8" to 10,003'; ran 1 11/16"" cement
bond log from 12,180-10,000 w/1600# pres.
on casing. No cement above 11,300'.

12/19/74 PBTD 12,180'' running tracer survey.
24 hrs. finished hooking up Hydril.
Perf. 1 shot each interval @ 10,241, 10,248,
10,252, 10,255. Pumped down tubing; perfs.
took fluid @ 5750# pres. Pumped in total
105 bbls. 2% K cl. water.

12/20/74 PBTD 12,180'; WOC - 24 hrs. ran tracer
survey and traced fluid up-hole to 9800'.
Squeezed w/100 sacks; displaced w/66 bbls. wtr.

12/21/74 PBTD 12,180; WOC after squeeze #2.
Squeeze #2 w/200 sx class G 0.4% HR4; displaced
w/65 bbls H2O.

12/22/74 PBTD 12,180; running tracer survey.
After squeeze #2 had 3200# pres. on tubing; ran
tracer survey and detected fluid movement up-hole
to 9060'; no movement down-hole below perfs.

12/23/74 PBTD 12,180'; WOC after squeeze #3.
Squeeze #3 w/200 sx class G 0.4% HR4; displaced
w/61¼ bbls H_2O; estimate top of cement at
10,160'.

12/24/74 PBTD 12,180' At 6 a.m. running temp survey
over past 24 hrs. Finished WOC - pressured
up to test squeeze - TP to 5000# - CP to 4800#
Tested OK - reversed with tubing - dropped down
on cement plug @ 10,125 with 8000#.
Pulled tubing - rigged up Schl. to run temp. surv

12/25/74 PBTD 12,180' Shut down - went in hole with
mill to 10,027'.

12/26/74 PBTD 12,180' Shut down.

12/27/74 PBTD 12,180'; laying down tubing.
190 jts. layed down - drilled out cement
plug from 10,109 to 10,258'; washed to bottom;
circ. bottoms up.

12/28/74 PBTD 12,180'; prep. to perf. Ran temp surv. Poss. flo behind csg. from 8000-5400. Hot spot @ perfs.

12/29/74 Perforating; rigged up schl.; began perf. Ran 3 guns; guns not working; pulled out of hole.

12/30/74 PBTD 12,180'; rigging up Haliburton to brk down perfs w/k cl water. Cont. perf. 47 holes fr. 10,535-12,130; will frac on Jan. 4.

12/31/74 Flowing breakdown fluid to tanks - broke down perfs. w/2% Kcl water; balled out @ 6900#. Injected 446 bbls into formation; csg volume 282 bbls; total load 728 bbls. Opened well to tank; flowed back 293 bbls in 12 hrs; 435 bbls yet to rec.

1/1/75 PBTD 12,180'; at report time flowing. 24 hrs flowed - rec. 67 bbls load water - rec. total 360 - 86 bbls remain to be rec.

1/2/75 Flowing load water. 24 hrs. flowed - rec. 54 bbls. Total 114 rec. - 32 remain to be rec.

1/3/75 PBTD 12,180'; at report time lifting w/nitrogen @ rate of 150-180mcfgpd. Rec. all of injection water. Have 186 bbls of csg. volume to rec.

1/4/75 Flowing @ 160 mcf/day. Ran flowmeter, gradionometer, temp. surv. - gas at 10,535 - 20% total vol. of flow
11,018 - 20% " " "
11, 079, 85 - 10% " " "
11,504 - 15% " " "
11,562 - 25% " " "
11,968 - 10% " " "
126 bbls. of load yet to rec.

1/5/75 Flowing @ 143-187 mcf/day. Flowed well 12 hrs. through separator at rate of 143-187 mcf/day. Bypassed separator and flowed to burn pit for 12 hrs. at est. rate up to 250 mcf/day.

1/6/75 Prep. frac. fluid to frac. Flowed well 12 hrs. through separator at rate of 131-185 mcf/day. Flowed 12 hrs. to burn pit at rate of 150-200 mcf/day.

1/7/75 At report time testing lines. Flowed 3 hrs. @ 127-130 cfpd. SI 19¼ hrs. - csg. head pres. built from 25 psi to 1,650 psi.

#1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

1/8/75 At report time flowing to frac tanks. Frac. 388,400 gals. of poly-emulsion; 875,000# of sand in two stages. Flowed back 1,968 bbls. in 14 hrs. with 0-50# pres. on 1 3/4" choke. 7,280 bbls. of load fluid to rec.

1/9/75 Flowing frac. fluid. Flowed 23 hrs. 1 3/4" choke. Rec. 641 bbls. fluid - 6639 to rec. Gas to small to meas. 0-50# pres. on well head.

1/10/75 Flowed frac. fluid to tanks. Flowed 420 bbls; have rec. 3006 bbls fluid; 6860 bbls yet to rec.

1/11/75 Flowed back 280 bbls in 24 hrs.

1/12/75 Flowed back 219 bbls in 24 hrs. Ran flow meter and temp. surv. which indicated the fluid entry from 10,490-12,010.

1/13/75 Flowed back 162 bbls. Total rec. frac. fluid 3691 bbls. - 5557 to rec. Prep. to run tubing.

1/14/75 At report time prep. to gas lift w/nitrogen. Flowed 126 bbls. frac. fluid - flowing at av. rate of 254,000 cf of gas per day. Rec. 3814 bbls. - 5433 to be rec. Ran 2 7/8" tubing to 10,487.

1/15/75 Flowed 81 bbls. - 14 bbls water - 67 oil. Total rec. 3895 - 5352 to rec. Found a restriction in tubing @ 4975'. Prep. to pull tubing to remove.

1/16/75 Repairing BOP; prep. to pull tubing. Rec. 165 bbls fluid last 24 hrs. Total fluid rec. 4063 bbls. - 5185 yet to rec.

1/17/75 At report time, prep. to land tubing. Repaired BOP's. Pulled tubing and found obstruction @ 4975'; reran tubing. Flowed 44 bbls. frac. fluid w/maximum gas flow of 400mcfpd - total fluid rec. 4107; 5141 to rec.

1/18/75 Flowed 59 net bbls. on gas lift.

1/19/75 Flowed 130 bbls. on gas lift.

1/20/75 Flowed 49.6 bbls. on gas lift. Flowing frac. Fluid on gas lift. Total rec. 4357 bbls. 4900 to rec. Released rig 1/18/75.

1/21/75 Flowing well. Flowed 24 hrs. without nitrogen. No fluid to surf. Gas too small to meas. Ran pres. traverse from surf. to 12,050.

1/22/75 Flowing frac. fluid. Flowed 18 hrs. without nitrogen. Rec. 48 bbls frac. fluid. Av. gas flow 2,004mcfpd. TP 35#, CP 700# 3/4" choke. Total rec. 4,395 bbls.; 4853 to rec.

1/23/75 Flowed 24 hrs. Rec. 125 bbls. frac. fluid. Av. gas flow 346mcfpd. Total rec. 4518 bbls.; 4730 to rec.

1/24/75 Flowed 24 hrs. thru 3/4" choke. Av. gas flow 210mcfpd. Rec. 63.4 bbls. frac. fluid. Total rec. 4583 bbls.; 4663 to rec.

1/25/75 Flowed 24 hrs. Rec. 42 bbls frac. fluid. Av. gas flow 234,000cfpd. Total rec. 4626; 4622 to rec.

1/26/75 Flowed 24 hrs. Rec. 102 bbls. frac. fluid. Av. gas flow 325,000cfpd. Total rec. 4728; 4520 to rec.

1/27/75 Flowed 24 hrs. Rec. 30 bbls frac. fluid. Av. gas flow 210,000cfpd. Total rec. 4758; 4490 to rec.

1/28/75 Flowed 24 hrs. Rec. 113 bbls. frac. fluid. Av. gas flow 347mcfpd - total rec. 4870; 4378 to rec.

1/29/75 Flowed 24 hrs. Rec. 50 bbls. frac. Av. gas flow 325mcfpd - 4920 rec.; 4328 to rec.

1/30/75 Flowed 24 hrs. Rec. 69 bbls. frac. Av. gas flow 298mcfpd - 4989 rec.; 4259 to rec.

1/31/75 Flowed 24 hrs. Rec. 41 bbls. frac. Av. gas flow 196mcfpd - 5030 rec.; 4218 to rec.

#1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

2/1/75 Flowed 24 hrs. Rec. 79 bbls. frac. fluid.
Avg. gas flow 400 mcfpd - total rec. 5109 bbls.
4139 to rec.

2/2/75 Flowed 24 hrs. Rec. 57 bbls. frac. fluid.
Avg. gas flow 314 mcfpd - rec. 5166 - 4082 to rec.

2/3/75 Flowed 24 hrs. Rec. 73 bbls. frac. fluid.
Avg. gas flow 293 mcfpd - rec. 5239 - 4009 to rec.

2/4/75 Flowed 24 hrs. Rec. 48 bbls. frac. fluid.
Av. gas flow 226mcfpd - rec. 5287 - 3961 to rec.

2/5/75 Flowed 24 hrs. Rec. 65 bbls. frac. fluid.
Av. gas flow 296 mcfpd - rec. 5352 - 3896 to rec.

2/6/75 Flowed 24 hrs. Rec. 61 bbls. frac. fluid.
Av. gas flow 352mcfpd - rec. 5413 - 3835 to rec.

2/7/75 Flowed 24 hrs. Rec. 33 bbls. frac. fluid.
Av. gas flow 352mcfpd - rec. 5446 - 3802 to rec.
Ran pres. surv., gradio., and flow meter.
Now evaluating data.

2/8/75 Flowed 24 hrs. Rec. 54 bbls. frac. fluid.
Av. gas Flow 319 mcfpd - rec. 5500 - 3748 to rec.

2/9/75 Flowed 24 hrs. Rec. 36 bbls. frac. flud.
Av. gas flow 287 mcfpd - rec. 5536 - 3712 to rec.

2/10/75 Flowed 24 hrs. Rec. 43 bbls. frac. fluid.
Av. gas flow 332mcfpd - rec. 5579 - 3669 to rec.

2/11/75 Flowed 24 hrs. Rec. 51 bbls. frac. fluid.
Av. gas flow 311mcfpd - rec. 5630 - 3618 to rec.

2/12/75 Flowed 24 hrs. Rec. 38 bbls. frac. fluid.
Av. gas flow 351mcfpd - rec. 5668 - 3580 to rec.

2/13/75 Flowed 24 hrs. Rec. 44 bbls. frac fluid
Av. gas. flow 442mcfpd - rec. 5712; 3536 to rec.

2/14/75 Flowed 24 hrs. Rec. 40 bbls. frac. fluid.
Av. gas flow 303mcfpd - rec. 5752; 3496 to rec.

2/15/75 Flowed 24 hrs. Rec. 45 bbls. frac. fluid.
Av. gas flow 383mcfpd - rec. 5797; 3451 to rec.

2/16/75 Flowed 24 hrs. Rec. 26 bbls frac. fluid.
Av. gas flow 255mcfpd - rec. 5823; 3425 to rec.

2/17/75 Flowed 24 hrs. Rec. 41 bbls. frac. fluid.
Av. gas flow 334mcfpd - rec. 5864; 3384 to rec.

2/18/75 Flowed 24 hrs. Rec. 36 bbls. frac. fluid.
Av. gas flow 355mcfpd - rec. 5900; 3348 to rec.

2/19/75 Flowed 24 hrs. Rec. 41 bbls. frac. fluid.
Av. gas flow 363mcfpd - rec. 5941; 3307 to rec.

2/20/75 Flowed 24 hrs. Rec. 36 bbls. frac. fluid.
Av. gas flow 289mcfpd - rec. 5977; 3271 to rec.

2/21/75 Flowed 24 hrs. REc. 32 bbls. frac. fluid.
Av. gas flow 330mcfpd - rec. 6009; 3239 to rec.

2/22/75 Flowed 24 hrs. Rec. 33 bbls. frac. fluid.
Av. gas flow 288mcfpd - rec. 6042; 3206 to rec.

2/23/75 Flowed 24 hrs. Rec. 45 bbls. frac. fluid.
Av. gas flow 342mcfpd - rec. 6087; 3161 to rec.

2/24/75 Flowed 24 hrs. Rec. 33 bbls. frac. fluid.
Av. gas flow 314mcfpd - rec. 6120; 3128 to rec.

2/25/75 Flowed 24 hrs. Rec. 37 bbls. frac. fluid.
Av. gas flow 312mcfpd - rec. 6157; 3091 to rec.

2/26/75 Flowed 24 hrs. Rec. 35 bbls frac. fluid.
Av. gas flow 304mcfpd - rec. 6192; 3056 to rec.

2/27/75 Flowed 24 hrs. Rec. 36 bbls. frac. fluid.
Av. gas flow 337mcfpd - rec. 6226; 3020 to rec.

2/28/75 Flowed 24 hrs. Rec. 32 bbls. frac. fluid.
Av. gas flow 288mcfpd - rec. 6260; 2988 to rec.

3/1/75 Flowed 24 hrs. Rec. 33 bbls. frac. fluid.
Av. gas flow 302mcfpd - rec. 6293; 2955 to rec.

3/2/75 Flowed 24 hrs. Rec. 23 bbls. frac. fluid.
Av. gas flow 171mcfpd - rec. 6316; 2932 to rec.

3/3/75 SI; TP 1265; CP 1690.

3/4/75 SI; TP 1679; CP 1900.

3/5/75 SI - TP 1920; CP 2095.

3/6/75 SI - TP 2122; CP 2250.

3/7/75 SI - TP 2305; CP 2340.

#1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., Utah

3/8/75 SI - TP 2440; CP 2390

3/9/75 SI - TP 2543; CP 2490

3/10/75 SI - TP 2641; CP 2600

3/11/75 SI - TP 2734; CP 2690

3/12/75 SI - TP 2828; CP 2780

3/13/75 SI - TP 2905; CP 2840

3/14/75 Pulled bottom hole pres. guages.

3/15/75 SI - TP 3046; CP 2965

3/16/75 SI - TP 3111; CP 3089

3/17/75 SI - TP-3179; CP 3154

3/25/75 SI - TP 3577; CP 3547

3/26/75 SI - TP 3612; CP 3581

3/27/75 SI - TP 3649; CP 3618

3/28/75 SI - TP 3688; CP 3655

3/29/75 SI - TP 3726; CP 3696

3/30/75 SI - TP 3733; CP 3702

3/31/75 Released guager; removed guages; still SI.

4/14/75 SI - no pres. readings since last report. Will run BH pres. survey on 16th.

4/16/75 Bottom Hole Pres. 5989 @ 10,447'
SITP 4550.

9/9/75 Opened for test 9/7/75. Well opened for flow for 24 hrs. FTP 2300 PSI. Rec. 1,111 mcf gas and 219 bbls. condensate. GOR 5062; gravity 60.4° API; no water.

9/10/75 Flowed 1,100,800 cfg in 20½ hrs. Rec. 144 bbls. condensate & 141 bbls. water. GOR 6982. Final average rate 15/64" choke. 1300 mcfgpd. TP 12,000 psi.

9/15/75 Flowing gas @ 458.7 mcfpd. w/49.5 bbls. condensate and 80.5 bbls. water. Flowing TP 575 psi. Total load rec. 7,210 bbls. fluid; load to rec. 2,037 bbls.

9/16/75 Flowing gas @ rate of 476 mcfpd w/44 bbls ld. oil and 78 bbls. water. FTP 500 psi. 2,106 bbls. ld. to rec.

9/17/75 Flowed 459.6 mcfpd on 16/64" choke w/39.5 bbls. ld oil and 67.5 bbls. water. Oil grade 55.9, Cl 40, 125 ppm. FTP 450 psi.

9/18/75 Flowed 440 mcfgpd on 15/64" choke w/ 34.5 bbls. load oil and 63 bbls. water. FTP 425.

9/21/75 Flowed 404.6 mcfgpd on 15/64" choke. Rec. 355 bbls load oil, 57 bbls water. Oil grade 55.6 api. Water salinity 40,000ppm Cl. FTP 400 psi. Load oil rec. 4,969 bbls; to rec. 1,134bbls. 3,144 bbls load water rec.; 0 to rec. Excess water rec. 44 bbls.

9/22/75 Flowed 362.7 mcfgpd on 15/64" choke w/325 psi FTP. Rec. 29 bbls load oil; 48 bbls water. Cl 40,000 ppm Load oil rec. 5,060; to rec. 1,044 bbls. All load water rec.

9/23/75 24 hr. flow test on 15/64" choke w/300 psi TP. Rec. 396 mcfg, 275 bbls load oil, 50 bbls water, 40,000 ppm Cl, 1,016 bbls load oil to rec.

9/24/75 24 hr. flow test on 15/64" choke w/300 psi TP. Rec. 368 mcfgpd, 24 bbls load oil, 48 bbls water, 40,000 ppm Cl.

9/25/75 Flowed 24 hrs. Rec. 360 mcfgpd; 25.5 bbls oil, 46.5 bbls water; OG 55.3°; Wtr. Cl 39,562 ppm; rigging up Schlumberger for prod. logs.

9/26/75 Flowd 24 hrs. Rec. 327 mcfgpd, 19 bbls oil, 38 bbls water; OG 55.8°; Wtr. Cl 39,200 ppm. Ran Schulm temp. gradiomanometer & flow meter logs.

9/29/75 24 hr. flow test. Rec. 300 mcfgpd on 15/64" choke w/22 bbls cond., 36 bbls wtr w/310 psi TP.

9/30/75 24 hr. flow test. 293 mcfgpd w/21 bbls cond, 34.5 bbls water w/300 psi TP.

10/1/75 Flowed 12 hrs. on 8/64" choke @ 20 psi. Rec. 20 bbls oil. S.I. 12 hrs. w/SIP 160 psi. Open 6:00p. Total oil left to rec. 1501.31 bbls.

#1 Wilkin Ridge, Sec. 29-10S-17E, Duchesne Co., UT

10/2/75	7 hr. flow test. Rec. gas @ rate of 273 mcfgpd, plus 7 bbls oil & 11 bbls water. Pumped down tubing 60 bbls KCL water and 2500# 20-40 sand. Est. PBTD would be ± 11,700'. Will leave well SI for 24 hrs. to allow sand to fall to btm.
10/3/75	15 hr. flow test. Rec. gas @ rate of 284 mcfgpd on 15/64" choke w/400 psi TP; 21 bbls load oil & 69 bbls water.
10/6/75	24 hr. flow test. Rec. gas @ rate of 272 mcfgpd. w/17 bbls load oil & 29 bbls water w/375 psi TP.
10/7/75	22½ hr. flow test. Rec. gas @ rate of 257 mcfgpd w/14.5 bbls load oil & 22.5 bbls water w/475psiTP
10/8/75	24 hr. flow test. Rec. 332 mcfgpd w/19.5 bbls load oil & 30 bbls water - 400 psi FTP.
10/9/75	24 hr. flow test. Rec. 317 mcfgpd w/19 bbls load & 35 bbls wtr. 707 load to rec.
10/10/75	24 hr. flow test. Rec. 297 mcfgpd w/17 bbls load & 35 bbls wtr. FTP 300 psi.
10/13/75	24 hr. flow test. Rec. 297 mcfgpd w/16 bbls ld. & 32 bbls wtr. Now running noise log.
10/14/75	18½ hr. flow test. Rec. 215 mcfgpd w/8 bbls ld. & 16.5 bw. Ran noise & temp logs. No results. SI 0600 10/14/75.
10/15/75	SI.

JUN 14 1971

UINTAH BASIN, UTAH

UINTAH BASIN, UTAH.

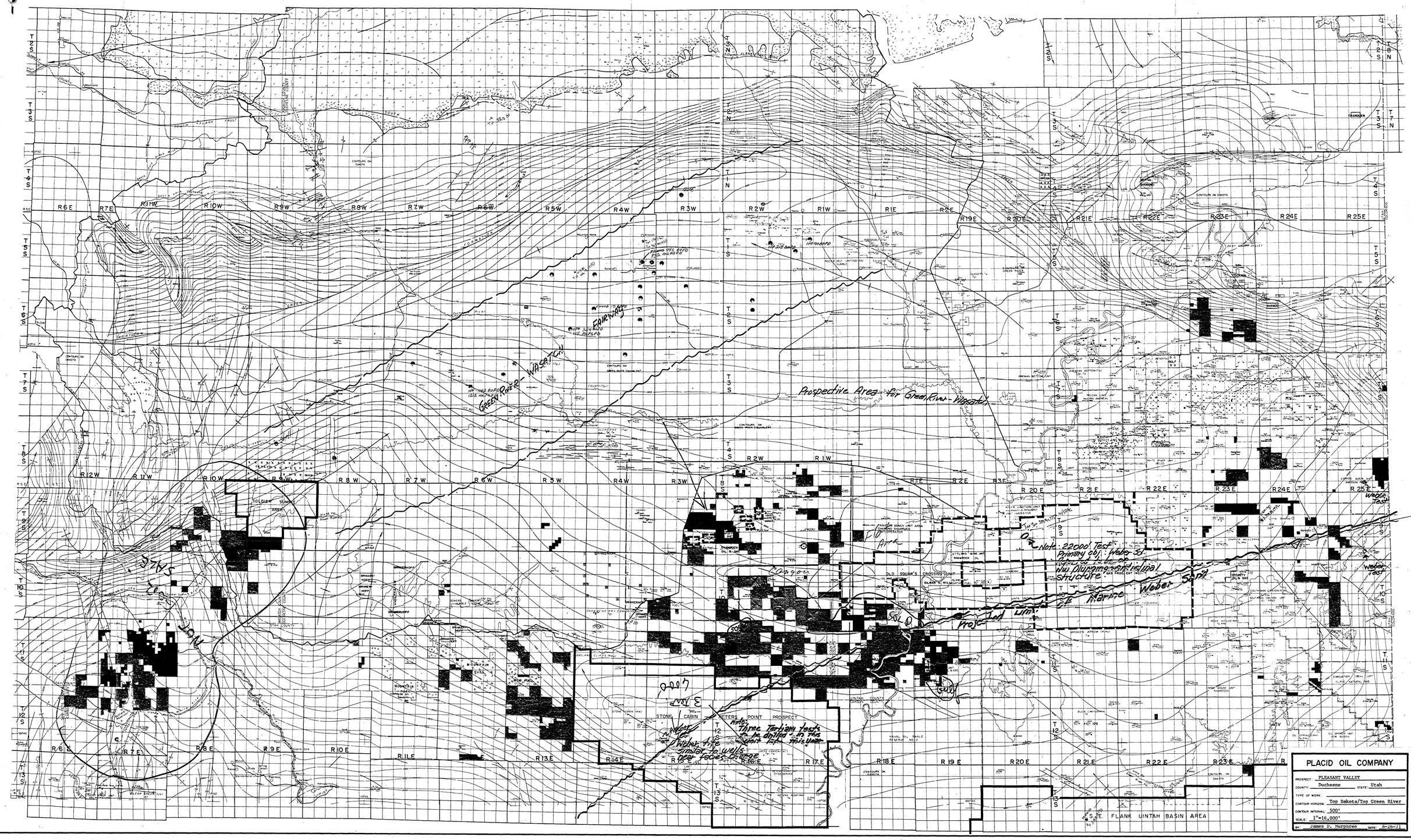
Uintah, Duchesne, Wasatch, Utah and Carbon Counties.

Federal and State Leases.

Subject to confirmation, we are authorized to sell the indicated acreage at a reasonable price

Ray Chorney
Box 144
Casper, Wyoming
82601

Ph. 234-7164
Area Code 307

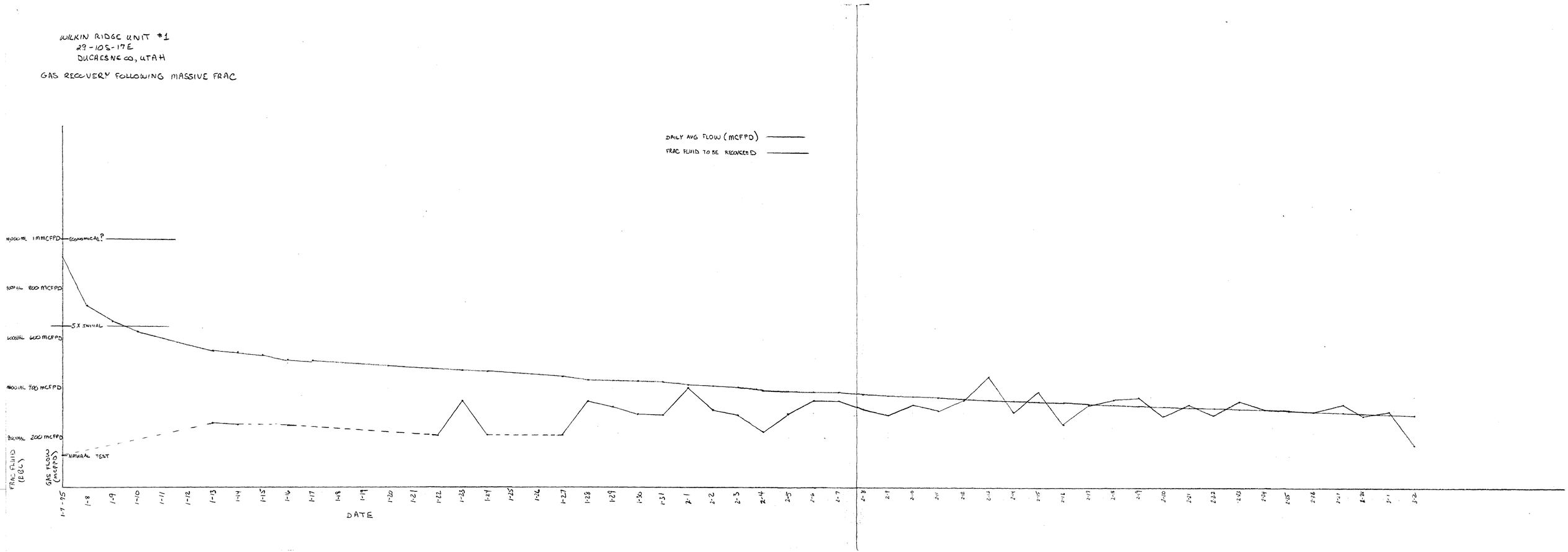


PLACID OIL COMPANY

PROSPECT:	PLEASANT VALLEY
COUNTY:	Duchesne STATE: Utah
TYPE OF WORK:	
CONTOUR HORIZON:	Top Dakota/Top Green River
CONTOUR INTERVAL:	500'
SCALE:	1"=16,000'
BY:	James D. Murphree DATE: 8-26-71

WILKIN RIDGE UNIT #1
29-10S-17E
DUCHESNE CO, UTAH

GAS RECOVERY FOLLOWING MASSIVE FRAC



File
#1 WR Unit

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. BOX 2794
CASPER, WYOMING 82601

GAS ANALYSIS REPORT

COMPANY: Exxon Company, U.S.A.
WELL NO.: Wilkin Ridge Unit #1
FIELD: Nine Mile (Wildcat)
COUNTY: Duchesne
STATE: Utah
LINE PRESSURE: 100 PSIG
TEMPERATURE: - DEGREES F

DATE: January 14, 1975 LAB. NO. 14933
LOCATION: SE NW 29-10S-17E
FORMATION: Mesa Verde
DEPTH: Perforated (48) @ 10,535-12,130'
SAMPLING POINT: Production gas
SAMPLE PRESSURE: 100 PSIG
CONTAINER NO. theirs

Sample #N-4, Sampled 1-6-75 at 9:30a.m. by E. G. Hays
Sampled at Riser Piping Upstream of Low pressure separator on test unit.

COMPONENT	MOLE % OR VOLUME %	GALLONS PER MCF
OXYGEN	0.00	
NITROGEN	0.10	
CARBON DIOXIDE	1.12	
HYDROGEN SULFIDE	0.00	
METHANE	82.47	
ETHANE	10.81	
PROPANE	3.49	0.957
ISO-BUTANE	0.70	0.228
N-BUTANE	0.64	0.202
ISO-PENTANE	0.20	0.073
N-PENTANE	0.12	0.043
HEXANES & HIGHER	0.35	0.161
TOTAL	100.00	1.664

GPM OF PENTANE & HIGHER FRACTION 0.277

GROSS BTU/CU FT @ 60F & 14.7 PSIA(DRY BASIS).. 1189.
SPECIFIC GRAVITY (CALCULATED FROM ANALYSIS)... 0.687
SPECIFIC GRAVITY (MEASURED)..... 0.686

REMARKS: Flowing gas to test separator, to clean well after Breakdown of perf's. with KCl water, and prior to massive frac. Job.; 3 days since use of N_2 to lift load water from well. Shut in the flare line at separator a few minutes to build pressure for 100psi sample.

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. BOX 2794
CASPER, WYOMING 82601

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FORM 3012 R-1 HALLIBURTON LOCATION VERNAL BILLED ON TICKET NO. 881795

WELL DATA

FIELD WILDCAT SEC. 29 TWP. 10S RNG. 17E COUNTY Duchesne STATE Utah

FORMATION NAME MESA VERDE TYPE SAND

FORMATION THICKNESS 1595 FROM 10,535 TO 12,130

INITIAL PROD: OIL ____ BPD.WATER ____ BPD.GAS 150 MCFD

PRESENT PROD: OIL ____ BPD.WATER ____ BPD.GAS ____ MCFD

	NEW USED	SIZE	FROM	TO	WEIGHT	MAXIMUM PSI ALLOWABLE
CASING	N	5½	0	12,400	17&20	7000
LINER						
TUBING						

POWER EXXON

1- Dallas Well file

EXXON COMPANY, U.S.A.

WILKINS RIDGE UNIT NUMBER 1

HYDRAULIC FRACTURE TREATMENT NUMBER ONE

JANUARY 7, 1975

HALLIBURTON SERVICES

VERNAL, UTAH

FORM NO. 2013 R-7 — HALLIBURTON LOCATION VERNAL — BILLED ON TICKET NO. 881795

WELL DATA

FIELD WILDCAT SEC. 29 TWP. 10S RNG. 17E COUNTY Duchesne STATE Utah

FORMATION NAME MESA VERDE TYPE SAND

FORMATION THICKNESS 1595 FROM 10,535 TO 12,130

INITIAL PROD: OIL ____ BPD. WATER ____ BPD. GAS 150 MCFD

PRESENT PROD: OIL ____ BPD. WATER ____ BPD. GAS ____ MCFD

COMPLETION DATE ____ MUD TYPE ____ MUD WT. ____

PACKER TYPE ____ SET AT ____

BOTTOM HOLE TEMP. ____ PRESSURE ____

MISC. DATA ____

	NEW USED	SIZE	FROM	TO	WEIGHT	MAXIMUM PSI ALLOWABLE
CASING	N	5½	0	12,400	17&20	7000
LINER						
TUBING						
OPEN HOLE					TOTAL DEPTH:	
PERFORATIONS			10,535	12,130	47	SHOTS/FT.
PERFORATIONS						SHOTS/FT.
PERFORATIONS						SHOTS/FT.

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 1/6/75	DATE 1/6/75	DATE 1/7/75	DATE 1/7/75
TIME 0300	TIME 0700	TIME 0936	TIME 1503

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER 1 Shur-shot Injector		Halco

MATERIALS

TREAT. FLUID SEM DENSITY ____ LB/GAL.°API

DISPL. FLUID Water 2% KCl DENSITY ____ LB/GAL.°API

PROP. TYPE Sand SIZE 40/60 LB. 4550

PROP. TYPE Sand SIZE 20/40 LB. 4200

ACID TYPE ____ GAL. ____ %

ACID TYPE ____ GAL. ____ %

ACID TYPE ____ GAL. ____ %

SURFACTANT TYPE SEM-5 GAL. 735 IN 5 1000

NE AGENT TYPE ____ GAL. ____ IN ____

FLUID LOSS ADD. TYPE ____ GAL.-LB. ____ IN ____

GELLING AGENT TYPE MYF-1 GAL.-LB. 7350 (50 IN 1000

FRIC. RED. AGENT TYPE ____ GAL.-LB. ____ IN ____

BREAKER TYPE ____ GAL.-LB. ____ IN ____

BLOCKING AGENT TYPE ____ GAL.-LB. ____

PERFPAC BALLS TYPE 7/8 1.4 sp RCN QTY. 30

OTHER 235 sk KCl 1500# CW-1

OTHER 10# sp Breaker

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
McDuff	2532 HT	Vernal
Jenkins	3693 HT	"
Brown	3349 HT	"
Horrocks	3862 HT	"
Jenne	8774 HT	"
Quinn	8539 HT	"
Morris-Bihr	9453 HT	Rock Springs
Fink	4192 HT	" "
Traywick	9502 HT	Farmington
Sherman	9501 HT	"
Sherrer	8080 Blender	Vernal
L. Elmer	8565 Blender	"
Alan	3725 Blender	Farmington
G. Miller	3863 Iron	Vernal

DEPARTMENT Cmt.

DESCRIPTION OF JOB Super Emulsifrac

JOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X Gene D. Thompson

HALLIBURTON OPERATOR D. McDuff COPIES REQUESTED ____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.

PRESSURES IN PSI

CIRCULATING ____ DISPLACEMENT ____

BREAKDOWN ____ MAXIMUM 7000

AVERAGE 6950 FRACTURE GRADIENT ____

SHUT-IN: INSTANT 5500 5-MIN. 5300 15-MIN. 5100

HYDRAULIC HORSEPOWER

ORDERED 10,000 AVAILABLE 7000 USED 5621

AVERAGE RATES IN BPM

RATING 33 DISPL. 20 OVERALL 33

CEMENT LEFT IN PIPE

FEET ____ REASON ____

SUMMARY

VOLUMES

PREFLUSH: BBL.-GAL. 910 TYPE KCl

LOAD & BKDN: BBL.-GAL. ____ PAD: ~~BBL.~~-GAL. 30,000

TREATMENT: BBL.-GAL. 345,000 DISPL: BBL.-GAL. 13,400

CEMENT SLURRY: BBL.-GAL. ____

TOTAL VOLUME: BBL.-GAL. 388,400

REMARKS

13-500 BBL tanks on loc. F/Condensate

7-500 BBL tanks on loc F/Gelled

1-500 BBL tanks on loc F/Flush

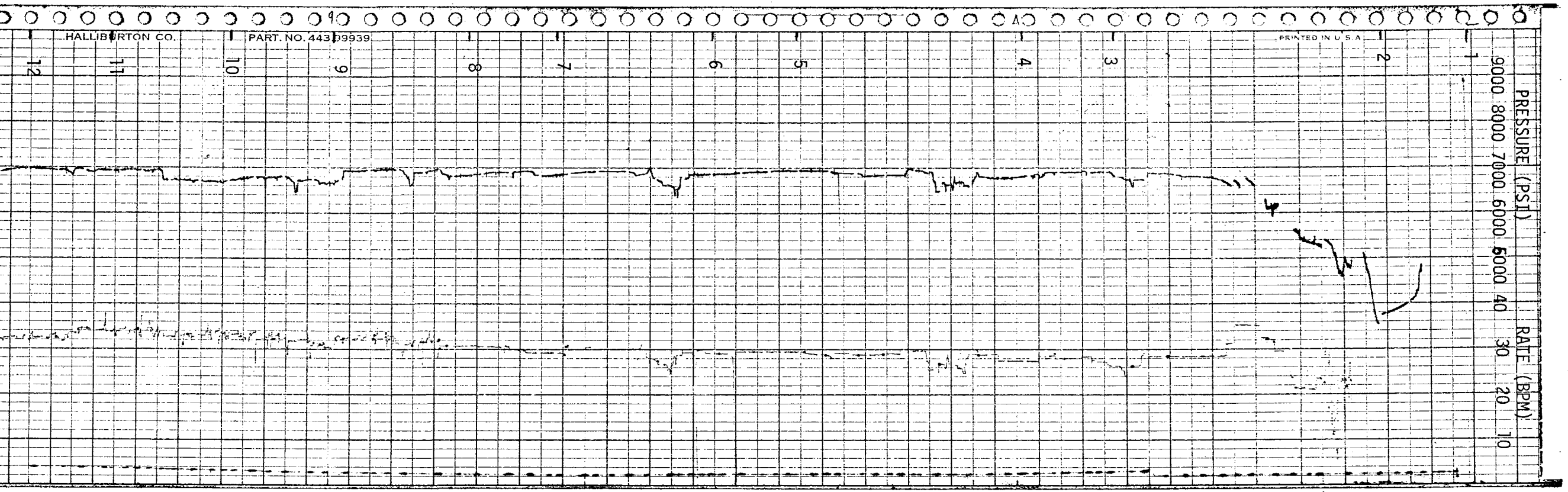
EXXON — WILKIN RIDGE — WELL NO. 1 — JOB TYPE SUPER EMULSIFRAC — DATE 1/7/75

CUSTOMER _____ PAGE NO. _____

JOB TYPE SUPER EMULSIFRAC DATE 1/7/75

ORM 2013

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) XXXXXX	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
			STAGE			VOLUME		
						JOB		
	0800							Safety Meeting
	0818							Prime Up
	0903				20		8250	Test Lines to 8250 PSI
1	0936		910					Load Hole
2	0949	23	30,000			0	6900	Sem Pad
3	1013	22	40,000			30,000	6950	Start 1 PPG 40/60 Sand
4	1022	23				42,000	6800	1 PPG on the formation
5	1041	33	30,000			70,000	6950	Start 2 PPG 40/60 Sand
6	1050	33				82,000	6850	2 PPG on the formation
7	1103	34	30,000			100,000	6850	Start 3 PPG 40/60 Sand
8	1111	34				112,000	6850	3 PPG on the formation
9	1123	36	30,000			130,000	6750	Start 4 PPG 40/60 Sand
10	1132	36				142,000	6700	4 PPG on the formation
11	1144	38	40,000			160,000	6950	Start 3 PPG 20/40 Sand
12	1151	34				172,000	6950	3 PPG on the formation
13	1210	37	40,000			200,000	6900	Start 4 PPG 20/40 Sand
14	1218	37				212,000	6900	4 PPG on the formation
15	1237	36	20,000			240,000	6900	Sem Pad with 30 RCN Balls
16	1246	18				250,000	6300	Balls on the formation
17	1300	23	25,000			260,000	6900	Start 1 PPG 40/60 Sand
	1313	22				272,000	6920	1 PPG on the formation
18	1328	25	30,000			285,000	6750	Start 2 PPG 40/60 Sand
19	1338	26				297,000	6850	2 PPG on the formation
20	1356	25	20,000			315,000	6600	Start 3 PPG 40/60 Sand
21	1404	29				327,000	6900	3 PPG on the formation
22	1411	30	20,000			335,000	6900	Start 3 PPG 20/40 Sand
23	1423	20				347,000	5600	3 PPG on the formation
24	1432	26	20,000			355,000	6300	Start 4 PPG 20/40 Sand
25	1442	30				367,000	6850	4 PPG on the formation
26	1447	34	13,400			375,000	6900	Start Flush
27	1503					388,400		End Flush
							5500	ISIP
	1518						4400	Flow to PIT
	1519						5000	Shut In



HALLIBURTON SERVICES
A Division of Halliburton Company
DUNCAN, OKLAHOMA 73533

Fracometer Log

TICKET NO. 881795

Company Exxon Co., U.S.A. Date 1/7-75

Lease Wilkins Ridge Well No. 1 State Utah

County Duchesne Formation Mesa Verde

Type Job Massive Frac

Fracturing Fluid: Type Super E. Volume: 388,400 Gal.

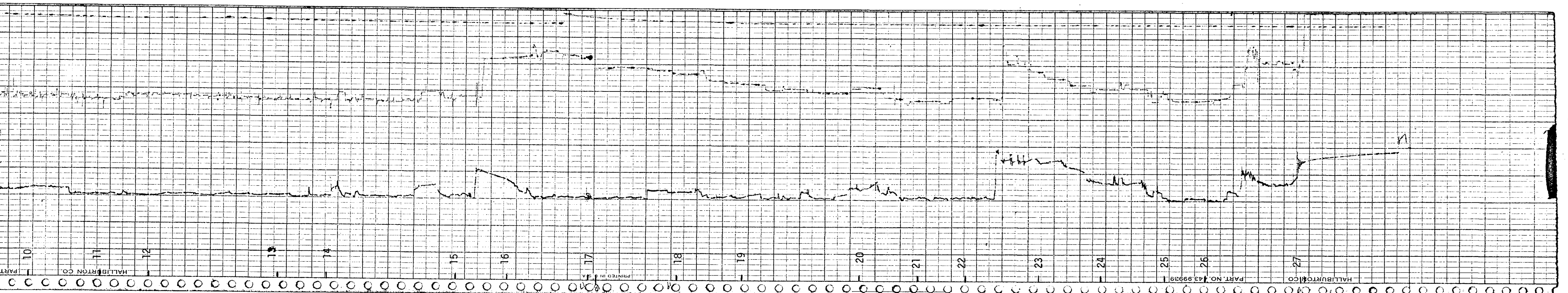
Propping Agent: Size 40/60 Quantity: 455,000 Lb.

Propping Agent: Size 20/40 Quantity: 420,000 Lbs.

Halliburton Operator: D. McDuff

Instrument No.:

REMARKS: Pressure Scale 0 to 10,000 PSI
Rate Scale 0 to 100 BPM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HALLIBURTON CO.
PART NO. 43 99939
PRINTED IN U.S.A.

Ken Harris - Exxon

UINTA BASIN WASATCH - MESAVERDE GAS TEST

9-MILE CANYON PROSPECT

GENERAL

Drilling Depth: 11,500'

Wasatch Section: 5000' - 8000'

Mesaverde Section: 8000' - 11,500'

Anticipated Net Pay: Wasatch - 200'- 250'
Mesaverde - 400' -500'

Anticipated Porosity: 8% - 12%

Anticipated Water Saturation: 45% - 55%

Anticipated Air Permeability: Wasatch - .8 md - 1.5 md
Mesaverde - .08 md - .12 md

Anticipated In-Situ Permeability: Wasatch .04 md - .07 md
Mesaverde - .004 md - .006 md

Anticipated Pressure Gradient: .4 - .45 psi-ft.

Anticipated Temperature Gradient: 60°F. + 1.45°F./100'

TEST OBJECTIVE

Determine sustained gas production capability of Wasatch and Mesaverde following massive hydraulic fracturing (effective propped fracture wing length of 500').

DRILLING PROCEDURE

Drill a 7-7/8" hole to TD with a good quality chemical mud. Several cores will be cut in the Wasatch and Mesaverde. In addition, selected intervals will be drill stem tested.

CORING PROGRAM

Three or four 60-foot cores will be cut in the Wasatch and Mesaverde sections.

Anticipated core intervals are:

1. Lower Wasatch Sands: 7700' - 7800'
2. Upper Mesaverde Sands: 8200' - 8400'
3. Middle Mesaverde Sands: 9500' - 9700'
4. Lower Mesaverde Sands: 10,500' - 10,800'

Data sought from core analyses are:

1. Porosities, air permeabilities, and fluid saturations.
2. Drainage test measurements of water saturation.
3. Rock measurements to assist in log analysis of water saturation.

It is anticipated that fracture design work will be done on selected cores with emphasis on clay damage and fluid cleanup. In addition, several cores may be analyzed for permeability measurements under water saturation and confining pressure conditions expected in the reservoir.

DRILL STEM TESTING

The principal objective of drill stem tests in the Wasatch and Mesaverde sections will be to determine in-situ permeability and original formation pressure. Four to six drill stem tests are planned. Cored intervals should be tested if possible.

Recommended drill stem procedures are:

Water cushion: none or up to 500 feet

Initial flowing period: 15 minutes

Initial shut-in period: 1 hour

Final flowing period: If production is obtained, flow for two hours. Terminate the test if prodiction is not obtained.

Final shut-in period: Four hours following production tests. No final shut-in period in tests without production.

LOGGING PROGRAM

IES

Neutron-Density

Gamma Ray - Sonic w/Caliper

Bottom hole temperature should be measured on each logging run.

CASING PROGRAM

Surface/intermediate casing as required

5½" casing to TD

2-3/8" tubing

CASING PROGRAM (cont)

The 5½" casing should be designed to permit pumping down the tubing-casing annulus during fracturing. Surface pressures during fracturing will be 6000-7500 psi.

COMPLETION PROCEDURE

The objective of the completion procedure is to stimulate 600 to 700 feet of sand in 25 to 30 separate zones. EPRCo's Polymulsion fracturing fluid (2/3 condensate and 1/3 brine) is the probable fluid selection. Total fluid requirement for fracturing will be 12,000 to 18,000 barrels (600 barrels/zone). Logistics of handling this amount of fluid and potential advantages of stage fracturing 10± intervals instead of 25 to 30 indicate that three jobs should be done in lieu of one very large job. With the Polymulsion fluid, this procedure will minimize the amount of condensate required by permitting reuse in subsequent jobs.

Anticipated depth intervals for the three jobs, are 5000' to 8000' (Wasatch), 8000' to 9500' (Mesaverde) and 9500' to 11,500' (Mesaverde). In each job, there will be 10± zones with each zone representing a stage in the fracture treatment. Net sand per zone will be 25 to 30 feet with some zones having as much as 50 to 70 feet of net sand. A base temperature survey should be run across the Wasatch and Mesaverde sections before perforating any zone; it will be used in determining the effectiveness of the multistage fracturing treatments.

The general procedure for each job is detailed below.

1. Perforate each zone with an equal number of perforations, such as 20.

2. Stage fracture using ball sealers between each stage to selectively fracture each completion zone. Fracture design should be for an effective fracture wing length of 750' to 1000'.

3. Run temperature surveys at ½ hour, 1 hour, and 2 hour intervals following fracturing to evaluate stimulated intervals.

4. Flow well back following the 2 hour temperature survey for cleanup.

5. Following cleanup, produce at the maximum sustained rates for 4 to 7 days, maintaining a constant surface flowing pressure if possible. A 3-phase separator should be available for condensate recovery.

6. Kill the well with a non-damaging fluid and isolate the completed zone with a bridge plug. (If experience from other areas indicates KCL water or similar fluids may be damaging, the well can be killed by filling it with sand to above the perforations.)

7. Complete the second and third jobs using similar procedures.

8. Following testing of the third job, open the entire well for continuous production.

(NOTE: Stimulation and testing of the three intervals will require 1 to 1½ months.)

POST-TREATMENT TESTING

An extended production test (6 months to one year) will be required to determine the effectiveness of the fracturing program. Facilities should be available for continuous metering of gas production.

No pressure buildup or drawdown tests are recommended. The multiple interval completions planned will result in cross flow between zones which precludes buildup analyses. Inability to accurately predict flow from each interval precludes drawdown analyses.

Temperature surveys and flow meter surveys will be used to determine the relative productivity of the different zones.

EES/bd
4-8-74

DATE	GAS FLOW AVG MCFPD	BBL FLUID RETURNED	BBL TOT	TO GO	
2-27-75	337	36	6226	3020	
2-28-75	288	32	6260	2988	
3-1-75	202	33	6293	2955	
3-2-75	171	23	6316	2932	
3-3-75	RECORDING-SHUT IN TUBING PRESS. 1265 psi		Casing Press 1690 psi		Letting well build press.
3-4-75			1679 psi	1900 psi	
3-5-75			1921 psi	2095 psi	
3-6-75			2122 psi	2350 psi	
3-7-75					
3-8-75			2440 psi	2390 psi	
3-9-75			2543 psi	2490 psi	
3-10-75			2641 psi	2600 psi	
3-11-75			2734 psi	2690 psi	
3-12-75			2828 psi	2780 psi	
3-13-75			2905 psi	2840 psi	
3-14-75					Pulled Bottom Hole Press Gauge
3-15-75					
3-16-75					
3-17-75					
18					
19					
20					
21					
22					
23					
24					
25			3577	3547	
26			3612	3581	
27			3649	3618	
28			3688	3655	
29			3726	3696	
30			3733	3702	
31	RELEASED GUAGES - STILL S.I.				

Environment T_W Wilkin Ridge area was a fluvial piedmont type of deposition with less organic source and carrying only gas with little porosity. To North around Bluebell Field area were getting lacustrine type deposits yield much rich environment. There oil & gas is being found & producable due to fracture porosity. Also much deeper with abnormal pressures to .8 psi/Ft Depth

Very little mesa Verde drilled in this area

Some better production to east of Wilkins ridge from T_W channel sands w/slightly better porosity

DATE	GAS FLOW AVG mcFPD	BBL FLUID RETURN	BBL TOT	TO GO
2-7-75	352	23	5446	3802
2-8-75	319	54	5500	3748
2-9-75	287	36	5536	3712
2-10-75	332	43	5579	3669
2-11-75	311	51	5630	3618
2-12-75	357	38	5668	3580
2-13-75	442	44	5712	3536
2-14-75	303	40	5752	3496
2-15-75	383	45	5797	3451
2-16-75	255	26	5823	3425
2-17-75	334	41	5864	3384
2-18-75	355	36	5900	3348
2-19-75	363	41	5941	3307
2-20-75	289	36	5977	3271
2-21-75	330	32	6009	3239
2-22-75	288	33	6042	3206
2-23-75	342	45	6087	3161
2-24-75	314	33	6120	3128
2-25-75	312	37	6157	3091
2-26-75	304	85	6192	3056

WILKINS RIDGE UNIT #1

29-10S-17E DUCHESNE CO. UTAH

UNIT - 35,409.27 ACRES

PARTICIPATING
- OPERATOR - EXXON
  - PLACID 14.556% - Contributing ½ of interest and carried by Exxon
  - PACIFIC TRANSMISSION SUPPLY - Carrying CHORNEY
  - CHORNEY OIL CO.
  - GULF OIL CO.
  - SKYLINE OIL CO.
  - MR. GILMAN A. HILL

OBJECTIVE: WASATCH + MESA VERDE GAS SANDS. DRILL TO MANCOS then evaluate wasatch + Mesa Verde sands which were predetermined to be tight. After evaluation use a massive Frac. to increase production by about 5 times.

PROJECTED: 11,500' @ 1,200,000 85 DAYS

WELL SUMMARY:

SPUD 9/1/74

DRILLED THROUGH GREEN RIVER TO WASATCH. Planned to core first sand w/gas show @ ~6000'. Did not get gas show in Wasatch.

1st show and core in Mesa Verde (10273-314) DST REC 90' GCM
CUT 2 MORE CORES - NO OTHER DST

11,500 LOGGED - NOT IN MANCOS SO CONTINUED TO DRILL

11,715 MUD WT FROM 9.5 to 12.2 after encountering largest gas shows to 2000 units

12,390 - TD - LOGGED - STUCK SIDEWALL CORE GUN + BROKE LINE FISHED IT OUT AND SET 5½" @ 12390

12/30/74 PERFORATED (47) NET PAY ZONE ~200'

BROKE DOWN PERFS W/2% KCL WATER

CONDUCTED NATURAL FLOW TEST 100-130 MCFD AVG

RAN TEMP + FLOW METER SURVEY TO DETERMINE ENTRY 100-130 MCFD AVG @ 1189 BTU/cu ft

FRACED W/388,400 GAL (9248 BBL) FLUID - POLYMULSION - ⅔ light oil condensate ⅓ H_2O gelled w/polymer (very effective in carrying the sand)

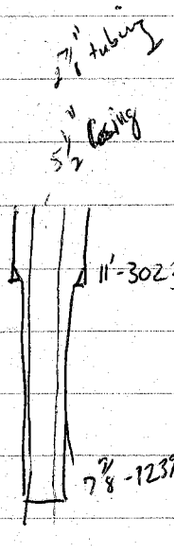
+/875000 lb sand

IN 2 STAGES (1) 34-36 BBL/MIN @ 6850 PSI

(2) 25-26.5 BBL/MIN @ 6850-6900 PSI

2 stages easier due to # of zones + volume + pressure of frac fluid to be used.

DATE	GAS FLOW AVG MCFD	BBL FLUID RETURN	BBL TOTAL	BBL TO GO	
1-7-75	130 NATURAL FLOW TEST				
1-8-75		1968		7280	
1-9-75		641	2609	6639	
1-10-75		420	3029	6219	
1-13-75	260		3691	5557	GAS LIFT W/ NITROGEN
1-14-75	254	126	3814	5433	RAN 2-⅜"
1-15-75		81	3895	5353	
1-16-75		165	4060	5185	
1-17-75		44	4107	5141	
1-20-75			4357	4900	FLOWING FRAC FLUID ON GAS LIFT
1-21-75	FLOW 24 HRS W/O NITROGEN		NO FLUID TO SURFACE		GTSTM
1-22-75	204	48			
1-23-75	346	125	4518	4730	
1-24-75	210	63.4	4582.7	4663	
1-27-75	210	30	4758	4490	
1-28-75	347	113	4870	4378	
1-29-75	325	50	4920	4328	
1-30-75	298	69	4989	4259	
1-31-75	196	41	5030	4218	
2-1-75	400	79	5109	4139	
2-2-75	314	57	5166	4082	
2-3-75	293	73	5239	4009	
2-4-75	226	48	5287	3961	
2-5-75	296	65	5352	3896	
2-6-75	252	61	5413	3835	

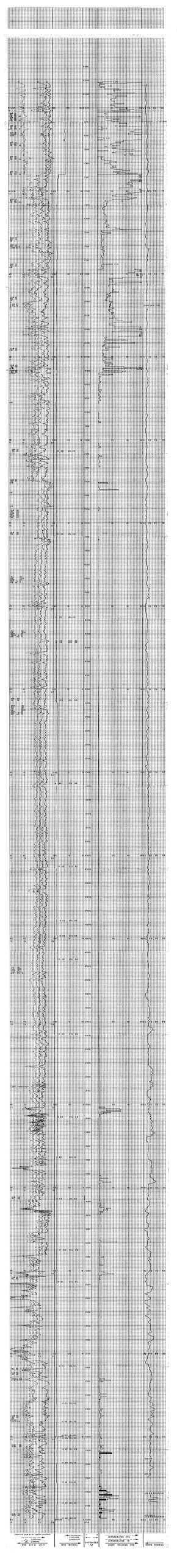


USE FLUID SUCH THE CLAY MATRIX WILL NOT SWELL (AS W/ H_2O) & restrict gas flow

FLUID FLOW AND GAS FLOW IS ERATIC - FLUID 30-100 BPD
GAS TRICKLE TO 800 MCFD } tubing open ended & liquid levels outside are varrying

BUT ARE RECEIVING FLUID O/L GRAVITIES LOWER THAN ORIGINAL & H_2O received is more saline. Perhaps we are getting some of the Formations own oil + water

Pressures - Casing 200-1200 psi Tubing 35-400 psi - NOT SIGNIFICANT BECAUSE it is erotic and is only loading and unloading in the annulus



Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of APRIL, *19*76, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* John F. Kilander

Phone (303) 778-3411 *Agent's title* Senior Staff Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	EXXON #1 WILKIN RIDGE UNIT							CONFIDENTIAL
11-6-75: SITP 3,050 psi; SICP 3,100 psi.										
11-13-75: SITP 3,200 psi; SICP 3,200 psi.										
12-5-75: SITP 3,650 psi; SICP 3,650 psi.										
12-12-75: SITP 3,700 psi; SICP 3,700 psi.										
1-9-76: SITP 3,900 psi; SICP 3,900 psi.										
2-12-76: SITP 4,100 psi; SICP 4,100 psi.										
3-9-76: SITP 4,200 psi; SICP 4,200 psi.										
4-28-76: SITP 4,300 psi; SICP 4,300 psi.										

cc: Utah Div. of Oil & Gas
Partners

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of MARCH, *19* 76, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* John F Richards

Phone (303) 778-3411 *Agent's title* Senior Staff Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	EXXON #1 WILKIN RIDGE UNIT							CONFIDENTIAL
11-6-75: SITP 3,050 psi; SICP 3,100 psi.										
11-13-75: SITP 3,200 psi; SICP 3,200 psi.										
12-5-75: SITP 3,650 psi; SICP 3,650 psi.										
12-12-75: SITP 3,700 psi; SICP 3,700 psi.										
1-9-76: SITP 3,900 psi; SICP 3,900 psi.										
2-12-76: SITP 4,100 psi; SICP 4,100 psi.										
3-9-76: SITP 4,200 psi; SICP 4,200 psi.										

cc: Utah Div. of Oil & Gas
Partners

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 1976, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120
Denver, Colorado 80201

Company Exxon Corporation

Signed John F Richards

Phone (303) 778-3411

Agent's title Senior Staff Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	EXXON #1 WILKIN RIDGE UNIT							CONFIDENTIAL

11-6-75: SITP 3,050 psi; SICP 3,100 psi.

11-13-75: SITP 3,200 psi; SICP 3,200 psi.

12-5-75: SITP 3,650 psi; SICP 3,650 psi.

12-12-75: SITP 3,700 psi; SICP 3,700 psi.

1-9-76: SITP 3,900 psi; SICP 3,900 psi.

2-12-76: SITP 4,100 psi; SICP 4,100 psi.

cc: Utah Div. of Oil & Gas
Partners

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of JANUARY, *19*76, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120
Denver, Colorado 80201

Company Exxon Corporation
Signed John F. Richardson
Agent's title Senior Staff Engineer

Phone (303) 778-3411

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	EXXON #1 WILKIN RIDGE UNIT							

CONFIDENTIAL

Well SI 10-14-75 for winter.

11-6-75: SITP 3,050 psi; SICP 3,100 psi.

11-13-75: SITP 3,200 psi; SICP 3,200 psi.

12-5-75: SITP 3,650 psi; SICP 3,650 psi.

12-12-75: SITP 3,700 psi; SICP 3,700 psi.

1-9-76: SITP 3,900 psi; SICP 3,900 psi.

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Copy to Salt Lake well file

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1975, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* [signature]

Phone (303) 778-3411 *Agent's title* Drilling Manager

Sec. and ¼ of ¼	Twp.	Range	Well No.	Date Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	EXXON #1 WILKIN RIDGE UNIT							
Well SI 10-14-75 for winter.										
11-6-75: SITP 3,050 psi; SICP 3,100 psi.										
11-13-75: SITP 3,200 psi; SICP 3,200 psi.										
12-5-75: SITP 3,650 psi; SICP 3,650 psi.										
12-12-75: SITP 3,700 psi; SICP 3,700 psi.										

CONFIDENTIAL

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

EGH:bt/1-5-76

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of NOVEMBER, *19*75, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation
Denver, Colorado 80201 *Signed* Gene D. Thompson

Phone (303) 778-3411 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	EXXON #1 WILKIN RIDGE UNIT					CONFIDENTIAL		
Well SI 10-14-75 for winter.										
11-6-75: SITP 3,050 psi; SICP 3,100 psi										
11-13-75: SITP 3,200 psi; SICP 3,200 psi										

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

1- Phillips
1- well file

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of OCTOBER, *19*75, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* [signature]

Phone (303) 778-3411 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	EXXON #1 WILKIN RIDGE UNIT							CONFIDENTIAL

10-1-75: Flowed and tested well. Shut well in @1330, 10-1-75, and pumped into tubing a total of 60 bbl 1% KCl water and 2,500 lbs. 20-40 mesh sand. Sand was allowed to settle to bottom to add fill up to about 11,700' as an attempt to shut off water.

10-2-75: Opened well @1500, 10-2-75, to resume flow test and evaluation.

10-3-75 to 0600 10-14-75: Flow and test well; continues to produce some water. Ran Otis wire line on 10-5-75 and tagged solid bottom (sand fill) at 11,729' odometer measurement. Ran GO International Inc. Temperature Surveys and Noise Logs for use in evaluating well, tagged fill at 11,715' relative to casing collars while logging on 10-13-75.

10-14-75: Shut well in @0600, 10-14-75, pending further evaluation and development of plans for future action, in 1976, after shut-in through winter.

Summary of Production During Test in October, 1975:

1	14	204.5	57.6 to 53.0	3,511	--	430.0	Frac volume remaining to be recovered: 898 bbls oil.

NOTE: Well is shut-in for winter, pending evaluation and development of plans for action in 1976. Christmas tree (10,000-psi WP) is installed, with valves locked in closed position. Shut-in pressure will be observed occasionally.

EGH:bt

NOTE.—There were 377.45 (Net) bbls of recovered frac oil runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of OCTOBER, *19* 75, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation
Denver, Colorado 80201 *Signed* [signature]

Phone (303) 778-3411 *Agent's title* Drilling Manager

Sec. and ¼ of ¼	Twp.	Range	Well No.	Date Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW/NW 29	10S	17E	EXXON #1 WILKIN RIDGE UNIT 1						CONFIDENTIAL	
				1	7.0	57.1	85	-	10.5	Flow 7½ hrs. this day's report.
					Pumped into tubing w/water carrying 2,500# 20-40 mesh sand; left well SI 25½ hrs. for sand to settle to bottom, to add fill up to about 11,700' as an attempt to shut off water.					
				2	20.5	57.6	284	-	68.5	Flow 15 hrs., this day's report.
				3	21.0	56.7	352	-	56.5	Flow 24 hrs.
				4	15.5	55.7	257	-	31.5	Flow 23 hrs.
				5	16.5	56.0	272	-	28.5	Flow 24 hrs.
				6	14.5	55.8	257	-	22.5	Flow 22½ hrs.
				7	19.5	55.8	332	-	30.0	Flow 24 hrs.
				8	18.5	53.8	317	-	35.0	
				9	17.0	53.0	297	-	34.5	
				10	16.0	53.4	300	-	33.0	
				11	15.0	53.5	295	-	31.5	
				12	15.5	53.6	297	-	31.5	
				13	8.0	53.4	166	-	16.5	Flow 18½ hrs., this day's report.
				14	Shut in @0600, 10-14-75.					
				TOTAL:	204.5		3,511		430.0	Gas Flared

NOTE: Well is shut-in for winter, pending evaluation and development of plans for action in 1976. Christmas tree (10,000-psi WP) is installed, with valves locked in closed position. Shut-in pressure will be observed occasionally.

EGH:bt

NOTE.—There were 377.45 (Net) bbls of recovered frac oil runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

9-331
(January 1950)

Budget Bureau No. 42-R331.2
Approval expires 12-31-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah
Lease No. U-7362

LESSEE'S MONTHLY REPORT OF SALES AND ROYALTY

Lessee Exxon Corporation Month October, 1975

CONFIDENTIAL

Location 29 (Section) 10-S (T.) 17-E (R.) SL (M.)

Field Ninemile Canyon Wildcat County Duchesne State Utah

Following are ALL runs and sales made this month
(If no runs or sales of any products were made, state NONE under the appropriate heading)

OIL

Tank No.	Date	Net Barrels Run	Gravity	Price Per Barrel	Value
Frac Tanks	10-15-75	377.45	55.4	$9.19	$3,468.77
		TOTAL BARRELS RUN 377.45	AVERAGE PRICE $9.19		TOTAL VALUE $3,468.77

PURCHASER OF ABOVE OIL: Koch Oil Company (Trucked)

GAS

Sales in 1,000 Cu. Ft. @ 10 oz. and 14.4#	Price per 1,000 Cu. Ft.	Value
3511 (Flared)	$0.50 (No Contract)	$1,755.50
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE GAS: Flared in accord w/Form 9-331 approved 1/02/75 by Mr. E. W. Guynn.

GASOLINE

Sales in Gallons	Price Per Gallon	Value
NONE		
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE GASOLINE

BUTANE AND OTHER LIQUID PRODUCTS

Sales in Gallons	Price Per Gallon	Value
NONE		
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE BUTANE OR OTHER LIQUID PRODUCTS

NUMBER OF OIL PRODUCING WELLS AFFECTING ROYALTY COMPUTATIONS

ROYALTY

Product	Sales	Royalty Rate	Royalty Quantity	Royalty Value
OIL (Barrels)	--		None	None
GAS (1,000 Cu. Ft.)	3511 Mcf $1,755.50	0.125	438.88 Mcf	$219.44
GASOLINE (Gallons)	--			
BUTANE and Other Liquid Prod.	--			
TOTAL VALUE OF ROYALTY				$219.44

*Where applicable state "None"

ACKNOWLEDGMENT

I have ~~read~~ and examined the statements made hereon and find them true, accurate, and complete.

(Signature and title of officer authorized to sign for lessee)

(Lessee or Operator)

Division Drilling Manager

Section 35 (A) of the United States Criminal Code, 18 U. S. C. 80, makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.

This form to be properly prepared and filed IN DUPLICATE with the supervisor on or before the 6th day of the succeeding month. Sales may be itemized on any other convenient form and attached to this report.

U. S. GOVERNMENT PRINTING OFFICE 16—16504-4

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

CONFIDENTIAL

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980' FNL, 2055' FWL, Sec. 29, T10S, R17E, S.L.M.
Duchesne County, Utah

5. LEASE DESIGNATION AND SERIAL NO.
Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Wilkin Ridge Unit

8. FARM OR LEASE NAME

9. WELL NO.
Exxon #1 Wilkin Ridge Unit

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29,T10S,R17E, SLM

14. PERMIT NO.
API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6192' RDB

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) OPERATIONS			X
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

10-1-75: Flowed and tested well. Shut well in @1330, 10-1-75, and pumped into tubing a total of 60 bbl 1% KCl water and 2500 lb 20-40 mesh sand. Sand to be allowed to settle to bottom to add fill up to about 11,700' as an attempt to shut off water. (This plugback w/sand is in accord w/phone call from Exxon's J. W. Jackson to U.S.G.S.' E. W. Guynn this date.)

10-2-75: Opened well at 1500, 10-2-75, to resume flow test and evaluation.

10-3-75 to 0600 10-14-75: Flow and test well; continues to produce some water. Ran Otis wire line on 10-5-75 and tagged solid bottom (sand fill) at 11,729' odometer measurement. Ran GO International Inc. Temperature Surveys and Noise Logs for use in evaluating well, tagged fill @11,715' relative to casing collars while logging on 10-13-75.

10-14-75: Shut well in @0600, 10-14-75, pending further evaluation and development of plans for future action, in 1976, after shut-in through winter.

NOTE: Two monthly reports (Lessee's Monthly Report of Operations, and Lessee's Monthly Report of Sales and Royalty) will be filed after close of October business.

EGH:bt

18. I hereby certify that the foregoing is true and correct

SIGNED Gene O. Thompson TITLE Division Drilling Manager DATE 10-16-75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Denver, CO

October 9, 1975

MEMO TO: Mr. Paul Jackson
Dallas Office

Re: Exxon #1 Wilkin Ridge
Sec. 29-10S-17E
Duchesne Co., UT

Attached are the following relative to the above captioned well:

1. Lessee's Monthly Report of Operations (two pages)

2. Lessee's Monthly Report of Sales and Royalty

Connie Corkins

cc

Attachments

Copies to Dallas Well file

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

October 8, 1975

United States Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached are three copies of Lessee's Monthly Report of Operations and the Report of Sales and Royalty for Exxon #1 Wilkin Ridge Unit for the month of September, 1975.

Enclosed is our check No. 6879 in payment of royalty for flared gas per the attached report.

Very truly yours,

W. A. Grieves

W. A. Grieves
Acting Drilling Manager

JFR:mg
Attachments
cc: D. Hawkins
Pacific Transmission Supply
Chroney Oil Co.
Gulf Oil Corp.
Placid Oil Co.
Skyline Oil Co.
Mr. Gilman A. Hill
Utah Division of Oil & Gas Conservation

9-361
(January 1950)

Budget Bureau No. 42-R361.2.
Approval expires 12-31-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah

Lease No. U-7362

LESSEE'S MONTHLY REPORT OF SALES AND ROYALTY

Lessee Exxon Corporation Month September, 1975

Location 29 (Section) 10-S (T.) 17-E (R.) SL (M.)

Field Ninemile Canyon Wildcat County Duchesne State Utah

Following are ALL runs and sales made this month
(If no runs or sales of any products were made, state NONE under the appropriate heading)

OIL

Tank No.	Date	Net Barrels Run	Gravity	Price Per Barrel	Value
Frac Tanks	9/10	365.89	56.4	$9.19	$3,362.53
	9/22	372.20	52.8	$9.19	$3,420.52
		TOTAL BARRELS RUN 738.09	AVERAGE PRICE $9.19		TOTAL VALUE $6,783.05

PURCHASER OF ABOVE OIL: Koch Oil Company (Trucked)

GAS

Sales in 1,000 Cu. Ft. @ 10 oz. and 14.4#	Price per 1,000 Cu. Ft.	Value
11,593.8 (Flared)	$0.50 (No Contract)	$5,796.90
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE GAS: Verbal approval to flare by Mr. E. W. Guynn 9/2/75.

GASOLINE

Sales in Gallons	Price Per Gallon	Value
None		
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE GASOLINE

BUTANE AND OTHER LIQUID PRODUCTS

Sales in Gallons	Price Per Gallon	Value
None		
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE BUTANE OR OTHER LIQUID PRODUCTS

NUMBER OF OIL PRODUCING WELLS AFFECTING ROYALTY COMPUTATIONS

ROYALTY

Product	Sales	Royalty Rate	Royalty Quantity	Royalty Value
OIL (Barrels)	--		*None	None
GAS (1,000 Cu. Ft.)	11,593.8 Mcf (Flared) $5,796.00	.125	*1,449.2 Mcf	$724.61
GASOLINE (Gallons)			*None	None
BUTANE and Other Liquid Prod.			*None	None
TOTAL VALUE OF ROYALTY				

*Where applicable state "None"

ACKNOWLEDGMENT

I have read and examined the statements made hereon and find them true, accurate, and complete.

(Signature and title of officer authorized to sign for lessee)

W. A. Quiers
(Lessee or Operator)

Acting Drilling Manager

Section 35 (A) of the United States Criminal Code, 18 U. S. C. 80, makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.

This form to be properly prepared and filed IN DUPLICATE with the supervisor on or before the 6th day of the succeeding month. Sales may be itemized on any other convenient form and attached to this report.

U. S. GOVERNMENT PRINTING OFFICE 16—16504-4

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Ut.
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, *19* 75, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* W. A. Quiers

Phone (303) 761-6470 *Agent's title* Acting Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
9/7/75 - 9/30/75: Flowed well. Recovered 1,230.5 barrels of load oil, 1,411.0 barrels of water, and 11,593.8 Mcf of gas. Gas was flared.										
Summary of Production During Test in September 1975										
			1	28	1,230.5		11,593.8	--	1,411.0	Frac Volume Remaining to be Recovered: 1102.5 Bbls Oil
9/25/75: Ran Schlumberger - Production Logs.										

NOTE.—There were 738.09(Net)Bbls of recovered frac oil runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

892-556 U.S. GOVERNMENT PRINTING OFFICE: 1964—O-729-784

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1975, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* W. A. Grieve

Phone (303) 761-6470 *Agent's title* Acting Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
			1	7	81.0	60.0	562.5	-	None	
				8	219.5	60.4	1,111.2	-	None	
				9	144.0	56.0	1,151.8	-	141.0	
				10	104.5	55.9	975.9	-	132.0	
				11	73.0	55.4	542.0	-	93.0	
				12	55.5	56.3	464.8	-	88.5	
				13	55.5	56.4	470.2	-	99.0	
				14	49.5	54.7	458.7	-	80.5	
				15	44.0	56.7	475.5	-	77.5	
				16	39.5	55.9	459.4	-	67.5	
				17	34.5	56.0	439.9	-	63.0	
				18	35.5	55.6	404.6	-	57.0	
				19	32.0	54.8	397.1	-	55.5	
				20	30.0	55.0	376.9	-	52.0	
				21	29.0	55.7	362.7	-	48.0	
				22	27.5	55.8	396.2	-	50.0	
				23	25.5	55.6	368.9	-	47.5	
				24	25.5	55.3	360.0	-	46.5	
				25	19.0	55.8	327.0	-	38.0	
				26	22.0	56.1	306.6	-	35.5	
				27	21.0	56.1	302.8	-	35.0	
				28	21.5	56.2	298.9	-	35.5	
				29	21.0	56.1	293.1	-	34.5	
				30	20.5	56.1	287.1	-	34.0	
			TOTAL:		1,230.5		11,593.8		1,411.0	Gas Flared

NOTE.—There were 738.09(net)Bbls of recovered frac oil runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

892-556 U.S. GOVERNMENT PRINTING OFFICE: 1964—O-729-784

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

CONFIDENTIAL

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

2. NAME OF OPERATOR: Exxon Corporation

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: P. O. Box 120, Denver, Colorado 80201

9. WELL NO.: Exxon #1 Wilkin Ridge Unit

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980 FNL, 2055 FWL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29-T10S-R17E, SLM

14. PERMIT NO.: API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6192' RDB

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	X	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Verbal approval for the following proposed work including necessary venting or flaring of gas (subject to royalty, NTL-4) was received 9/2/75 from Mr. E. W. Guynn, District Engineer.

PROPOSED WORK:

1. Bleed 4750 psi SITP from well by venting or flaring gas.
2. Load well with saltwater.
3. Pull tubing.
4. Set wireline bridge plug at 11,110'±.
5. Run permanent packer and set at 10,200'±.
6. Run tubing and set in packer.
7. Perforate an additional 10-15 holes between 10,902' and 11,085'.
8. Fracture treat Mesa Verde sandstone w/80,000 gal. gelled water and 200,000 lbs. 20/40 mesh sand.
9. Test well.

The proposed work should begin on or about September 5, 1975.

Included are copies of the current wellbore schematic and the proposed wellbore schematic. Also find attached, copies of Lessee's Monthly Report of Operations for June, July, August, 1975.

18. I hereby certify that the foregoing is true and correct

SIGNED John T. Sprouse TITLE Supervising Engineer DATE 9-4-75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

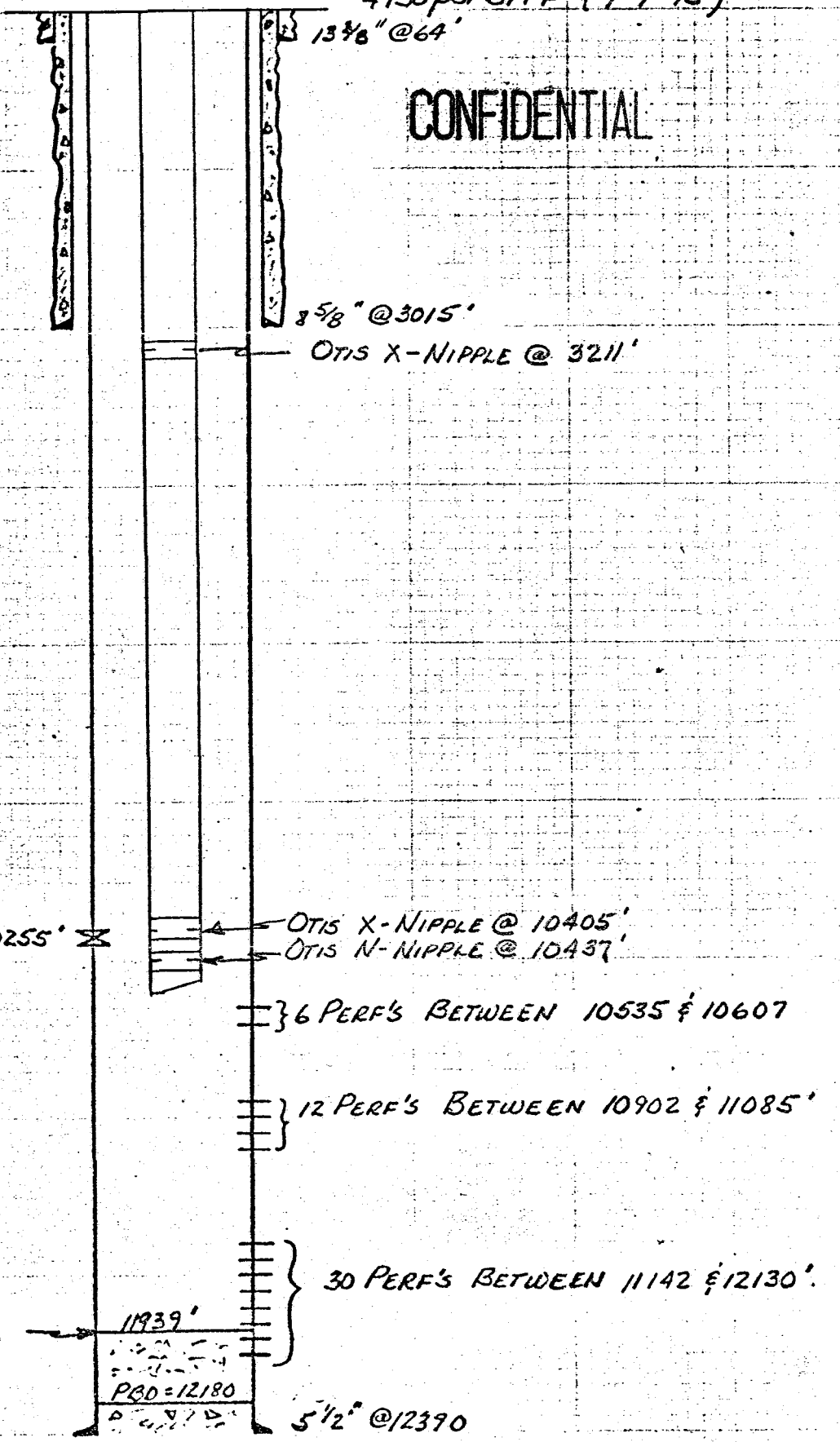
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

EXXON #1 WILKIN RIDGE UNIT

CURRENT WELLBORE SCHEMATIC (AS OF 9/3/75)

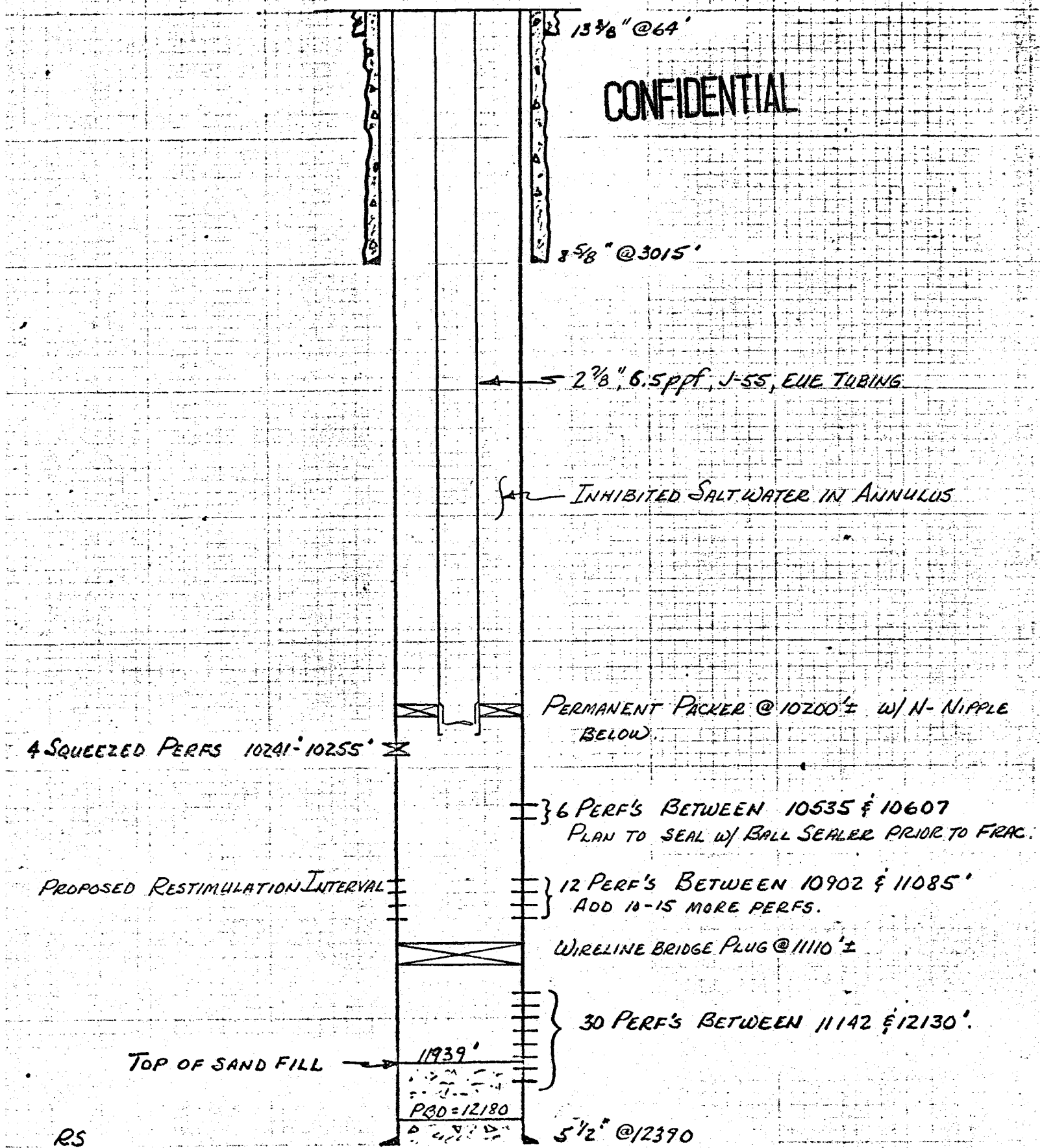
4750 psi SITP (9-1-75)



CONFIDENTIAL

RS
9/3/75

EXXON #1 WILKIN RIDGE UNIT
PROPOSED WELLBORE SCHEMATIC



RS
9/3/25

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of AUGUST, 1975, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation
Denver, Colorado 80201 *Signed* John T. Sprouse

Phone (303) 761-6470 *Agent's title* Supervising Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							CONFIDENTIAL
Well Shut In. Fifth subsurface pressure measurement, since shut-in March 1, 1975, was made on April 16, 1975. No measurements in May, June, July or August, 1975.										
			1	0	-	-	-	-	-	Shut In all month.
TOTALS				0	-		-	-	-	

GAS: (MCF)
Sold 0
Vented/Flared 0
Used on Lease 0
Lost 0
Reason -

OIL or CONDENSATE: (Barrels)
Sold 0
Used 0
Unavoidably Lost 0
Reason -

WATER: (Barrels)
Disposition -
Pit 0
Injected 0
Other 0

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-062

1- Dallas
1- File

CONFIDENTIAL

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of ____, *19*____, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120
Denver, Colorado 80201

Company Exxon Corporation

Signed John G Sprouse

Phone (303) 761-6470

Agent's title Supervising Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
7/1/75-7/30/75: Well Shut In. Fifth subsurface pressure measurement, since shut-in March 1, 1975, was made on April 16, 1975. No measurements in May, June or July 1975.										
			1	0	-	-	-	-	-	Shut In all month.
TOTALS				0	-		-	-	-	

GAS: (MCF)
Sold 0
Vented/Flared 0
Used on Lease 0
Lost 0
Reason -

OIL or CONDENSATE: (Barrels)
Sold 0
Used 0
Unavoidably Lost 0
Reason -

WATER: (Barrels)
Disposition -
Pit 0
Injected 0
Other 0

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-062

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 1975,

Agent's address P. O. Box 120
Denver, Colorado 80201

Phone (303) 761-6470

Exxon #1 Wilkin Ridge Unit

Company Exxon Corporation

Signed

Agent's title Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
6/1/75-6/30/75: Well Shut In. Fifth subsurface pressure measurement, since shut-in March 1, 1975, was made on April 16, 1975. No measurements in May nor June 1975.										
			1	0	-	-	-	-	-	Shut In all month.
TOTALS				0	-	-	-	-	-	

CONFIDENTIAL

GAS: (MCF)		OIL or CONDENSATE: (Barrels)		WATER: (Barrels)	
Sold	0	Sold	0	Disposition	-
Vented/Flared	0	Used	0	Pit	0
Used on Lease	0	Unavoidably Lost	0	Injected	0
Lost	0	Reason	-	Other	0
Reason	-				

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

1- Dallas
1- Well file

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 1975, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* [signature]

Phone (303) 761-6470 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
5/1/75-5/31/75: Well Shut In. Fifth subsurface pressure measurement, since shut-in March 1, 1975, was made on April 16, 1975. No measurements in May 1975.										
			1	0	-	-	-	-	-	Shut-in all month.
TOTALS				0	-	-	-	-	-	

CONFIDENTIAL

GAS: (MCF)
Sold 0
Vented/Flared 0
Used on Lease 0
Lost 0
Reason -

OIL or CONDENSATE: (Barrels)
Sold 0
Used 0
Unavoidably Lost 0
Reason -

WATER: (Barrels)
Disposition -
Pit 0
Injected 0
Other 0

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

WESTERN EXPLORATION DIVISION
EXXON COMPANY, U.S.A.
TRANSMITTAL FORM

To Placid Oil Co. From J.R. Switzer

Well Wilkin Ridge #1 Date 5-12-75

Transmitted herewith are the following for the subject well:

Quantity	Item	Interval	Remarks
	Dual Induction Log		
	Induction Electric Log		
	Sonic Log w/S.P.		
	Sonic Log w/G.R.		
	Formation Density Log w/G.R.		
	Sidewall Neutron		
	Neutron Density		
	Continuous Dipmeter		
	Continuous Dipmeter, Computed		
	Continuous Dipmeter Printout		
	Proximity-Microlog		
	Perforating Depth Control		
	Cement Bond Log		
	Cased Hole Neutron		
	Temperature Log		
	Synergetic Logs		
	Mudlogs		
	Sidewall Cores		
	Sidewall Core Description		
	Sidewall Core Analysis		
	Conventional Cores		
	Core Description		
	Core Analysis		
	Unwashed Cuttings		
	Washed & Dried Samples		
	Sample Description		
	Canned Cuttings		
	Drill Stem Test		
2	Pressure Gauge Report	Job No. SPG-1282	(Corrected)

Receipt Acknowledged HP Date 5-12-75

Return signed receipt to: Exxon Company, U.S.A.
P. O. Box 120
Denver, Colorado 80201
Attention: Mr. John R. Switzer

sent to → 5/13/75

sperry-sun

POST OFFICE BOX 36363 HOUSTON, TEXAS 77036 (713) 494-3021

J. A. Fouché
President

April 29, 1975

GDT	Western Division Exploration Dept.	RLL
JRC		JFR
WAG	MAY 2 1975	RS
EGH		JRS
JWJ	Drilling Section	MG
HANDLE	LETS DISCUSS	FILE

cc Partners
Gary Crawford (EP

Mr. Ed Hays
Exxon Company U.S.A.
P.O. Box 120
Denver, Colorado 80201

Dear Mr. Hays:

Enclosed is the corrected original copy of our Precision Pressure Gauge Gradient run, Job No. SPG-11282, performed on your Wilkin Ridge Unit, Well No. 1, Nine Mile Canyon Field, Duchesne County, Utah, on April 6, 1975.

This is a corrected copy of the results which were sent to W.A. Grieves, April 18, 1975. An error was made during the first reading of the pressure chart in which one wrap too many was read, thus resulting in pressures of 412.82 PSI too much.

Also enclosed are the pressures of the top Gauge No. 175 at the depths of surface, 10,447 feet and 11,800 feet; plus the charts and the copies of the results that you sent to us for correction.

Thank you for bringing this matter to our attention and our sincere apologies for the error.

Thank you for this opportunity to be of service.

Very Truly Yours,

SPERRY-SUN

William R. Foster

William R. Foster
Survey Engineer

WRF/jr

Enclosures

JOB NUMBER
SPG-11282

DATE OF JO
APRIL 16, 197

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

EXXON COMPANY U.S.A.

WELL NUMBER WILKIN RIDGE UNIT NO.1

FIELD/LEASE NINE MILE CANYON

COUNTY/PARISH DUCHESNE

STATE UTAH

TYPE OF TEST GRADIENT TEST INRUN AND OUTRUN

REFERENCE ELEV KELLY BUSHING

ADDITIONAL INFORMATION

GAUGE NO.112 WITH 8000 P.S.I. ELEMENT

SET ON 30 SEC. TIME MODE FOR TEST SPG-11282

INRUN STOPS MADE EVERY 1000 FEET FROM

0.0 TO 10,000 FEET AND STOPS EVERY

200 FEET TO 11,800 FEET WITH ONE

STOP AT 10,447 FEET, HANGING DEPTH.

OUTRUN STOPS MADE AT 11,800 FEET, 10,447 FEET, AND 0.0 FEET

DATUM IS 11,000 FT. K.B.

MAXIMUM BOTTOM HOLE TEMP. WAS 276. F.

23 POINTS REPORTED THIS JOB

PAGE 4

SPG-11282 TOP GAUGE NO. 175 PRESSURES

0.0 FEET----------4134.45 PSI

10,447 FEET----------5563.06 PSI

11,800 FEET----------5760.89 PSI

JOB NUMBER
SPG-11282

DATE OF JOB
APRIL 16, 1975

GAUGE/RUN NUMBER
112 RUN NO.1

DATE OF RUN
APRIL 16, 1975

SPERRY-SUN

PAGE 2

INRUN

GRADIANT STOP REPORT

DEPTH (FEET) FROM	DEPTH (FEET) TO	INTERVAL PRESSURE (PSI) FROM	INTERVAL PRESSURE (PSI) TO	PRESSURE DIFFERENCE (PSI)	PRESSURE GRADIANT (PSI/FT)
0.00	1000.00	4136.672	4269.209	132.537	0.133
1000.00	2000.00	4269.209	4400.772	131.563	0.132
2000.00	3000.00	4400.772	4534.867	134.094	0.134
3000.00	4000.00	4534.867	4665.068	130.201	0.130
4000.00	5000.00	4665.068	4796.437	131.369	0.131
5000.00	6000.00	4796.437	4933.839	137.402	0.137
6000.00	7000.00	4933.839	5077.275	143.436	0.143
7000.00	8000.00	5077.275	5212.889	135.615	0.136
8000.00	9000.00	5212.889	5355.861	142.972	0.143
9000.00	10000.00	5355.861	5507.198	151.337	0.151
10000.00	10200.00	5507.198	5537.932	30.734	0.154
10200.00	10400.00	5537.932	5564.970	27.038	0.135
10400.00	10447.00	5564.970	5575.863	10.893	0.232
10447.00	10600.00	5575.863	5622.742	46.879	0.306
10600.00	10800.00	5622.742	5633.441	10.699	0.053
10800.00	11000.00	5633.441	5665.537	32.096	0.160
11000.00	11200.00	5665.537	5694.131	28.594	0.143
11200.00	11400.00	5694.131	5721.753	27.622	0.138
11400.00	11600.00	5721.753	5749.180	27.427	0.137
11600.00	11800.00	5749.180	5773.106	23.926	0.120

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
112 RUN NO.1

DATE OF RUN
APRIL 16, 1975

SPERRY-SUN

PAGE 3

OUTRUN

GRADIANT STOP REPORT

DEPTH (FEET) FROM	DEPTH (FEET) TO	INTERVAL PRESSURE (PSI) FROM	INTERVAL PRESSURE (PSI) TO	PRESSURE DIFFERENCE (PSI)	PRESSURE GRADIANT (PSI/FT)
11800.00	10447.00	5773.106	5575.669	197.437	0.146
10447.00	0.00	5575.669	4189.804	1385.865	0.133

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE Salt Lake City, Uta
LEASE NUMBER U-7362
UNIT Wilkin Ridge

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of April, 1975, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* [signature]

Phone (303) 761-6470 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
4/1/75-4/30/75: Well Shut In. Pressure build-up test continues. Fifth subsurface pressure measurement, since shut-in March 1, 1975, was made on April 16, 1975.										
			1	0	-	-	-	-	-	Shut-in all month
TOTALS				0	-		-	-	-	

CONFIDENTIAL

GAS: (MCF)
Sold 0
Vented/Flared 0
Used on Lease 0
Lost 0
Reason -

OIL or CONDENSATE: (Barrels)
Sold 0
Used 0
Unavoidably Lost 0
Reason -

WATER: (Barrels)
Disposition -
Pit 0
Injected 0
Other 0

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-062

1- Dallas
1- File

WESTERN EXPLORATION DIVISION
EXXON COMPANY, U.S.A.
TRANSMITTAL FORM

To Placid Oil Company From J. R. Switzer

Well Wilkin Ridge No. 1 Date 4-24-75

Transmitted herewith are the following for the subject well:

Quantity	Item	Interval	Remarks
	Dual Induction Log		
	Induction Electric Log		
	Sonic Log w/S.P.		
	Sonic Log w/G.R.		
	Formation Density Log w/G.R.		
	Sidewall Neutron		
	Neutron Density		
	Continuous Dipmeter		
	Continuous Dipmeter, Computed		
	Continuous Dipmeter Printout		
	Proximity-Microlog		
	Perforating Depth Control		
	Cement Bond Log		
	Cased Hole Neutron		
	Temperature Log		
	Synergetic Logs		
	Mudlogs		
	Sidewall Cores		
	Sidewall Core Description		
	Sidewall Core Analysis		
	Conventional Cores		
	Core Description		
	Core Analysis		
	Unwashed Cuttings		
	Washed & Dried Samples		
	Sample Description		
	Canned Cuttings		
	Drill Stem Test		
2	Pressure Survey Report		Job No. SPG-11282 (April 16, 1975)

Receipt Acknowledged N. Peterson Date 4-25-75

Return signed receipt to: Exxon Company, U.S.A.
P. O. Box 120
Denver, Colorado 80201
Attention: Mr. John R. Switzer

sperry-sun

POST OFFICE BOX 36363 HOUSTON, TEXAS 77036 (713) 494-3021

J. A. Fouché
President

GDT	Western Division Exploration Dept.	RS
JRC		JRS
WAG	APR 21 1975	THM
EGH		JFR
JWJ	Drilling Section	MG
HANDLE	LETS DISCUSS	FILE

cc to partners
Gary Crawford-EPC

April 18, 1975

Mr. W.A. Grieves
Exxon Company U.S.A.
P.O. Box 120
Denver, Colorado 80201

Dear Mr. Grieves;

Enclosed please find the original copy of our Precision Pressure Gauge Gradient run, Job No. SPG-11282, performed on your Wilkin Ridge Unit, Well No.1, Nine Mile Canyon Field, Duchesne County, Utah, on April 16, 1975.

Gradients were taken at the depths requested.

The original folder contains the gradient run, Field Data sheets and the charts from these runs.

Thank you for this opportunity to be of service.

Very Truly Yours,

SPERRY-SUN

James A. Welch

James A. Welch
District Manager

JAW/jr

Enclosures

JOB NUMBER
SPG-11282

DATE OF JOB
APRIL 16, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

EXXON COMPANY U.S.A.

WELL NUMBER	WILKIN RIDGE UNIT NO.1
FIELD/LEASE	NINE MILE CANYON
COUNTY/PARISH	DUCHESNE
STATE	UTAH
TYPE OF TEST	GRADIENT TEST INRUN AND OUTRUN
REFERENCE ELEV	KELLY BUSHING

ADDITIONAL INFORMATION

GAUGE NO.112 WITH 8000 P.S.I. ELEMENT

SET ON 30 SEC. TIME MODE FOR TEST SPG-11282

INRUN STOPS MADE EVERY 1000 FEET FROM

0.0 TO 10,000 FEET AND STOPS EVERY

200 FEET TO 11,800 FEET WITH ONE

STOP AT 10,447 FEET, HANGING DEPTH.

OUTRUN STOPS MADE AT 11,800 FEET, 10,447 FEET, AND 0.0 FEET

DATUM IS 11,000 FT. K.B.

MAXIMUM BOTTOM HOLE TEMP. WAS 278. F.

23 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11282

DATE OF JOB
APRIL 16, 1975

GAUGE/RUN NUMBER
112 RUN NO.1

DATE OF RUN
APRIL 16, 1975

SPERRY-SUN

INRUN

GRADIANT STOP REPORT

DEPTH INTERVAL (FEET) FROM	TO	PRESSURE INTERVAL (PSI) FROM	TO	PRESSURE DIFFERENCE (PSI)	PRESSURE GRADIANT (PSI/FT)
0.00	1000.00	4549.492	4682.029	132.537	0.133
1000.00	2000.00	4682.029	4833.055	151.026	0.151
2000.00	3000.00	4833.055	4947.687	114.632	0.115
3000.00	4000.00	4947.687	5078.083	130.396	0.130
4000.00	5000.00	5078.083	5209.201	131.119	0.131
5000.00	6000.00	5209.201	5346.532	137.331	0.137
6000.00	7000.00	5346.532	5490.282	143.750	0.144
7000.00	8000.00	5490.282	5625.473	135.191	0.135
8000.00	9000.00	5625.473	5768.445	142.972	0.143
9000.00	10000.00	5768.445	5919.782	151.337	0.151
10000.00	10200.00	5919.782	5950.516	30.734	0.154
10200.00	10400.00	5950.516	5977.554	27.038	0.135
10400.00	10447.00	5977.554	5988.447	10.893	0.232
10447.00	10600.00	5988.447	6035.326	46.879	0.306
10600.00	10800.00	6035.326	6046.025	10.699	0.053
10800.00	11000.00	6046.025	6078.121	32.096	0.160
11000.00	11200.00	6078.121	6106.715	28.594	0.143
11200.00	11400.00	6106.715	6134.337	27.622	0.138
11400.00	11600.00	6134.337	6161.764	27.427	0.137
11600.00	11800.00	6161.764	6185.690	23.926	0.120

JOB NUMBER

DATE OF JOB

GAUGE/RUN NUMBER
112 RUN NU.1

DATE OF RUN
APRIL 16, 1975

SPERRY-SUN

OUTRUN

GRADIANT STOP REPORT

DEPTH INTERVAL (FEET) FROM	TO	PRESSURE INTERVAL (PSI) FROM	TO	PRESSURE DIFFERENCE (PSI)	PRESSURE GRADIANT (PSI/FT)
11800.00	10447.00	6185.690	5988.253	197.437	0.146
10447.00	0.00	5988.253	4603.791	1384.461	0.133

SPERRY-SUN WELL SURVEYING COMPANY

PRESSURE GAUGE FIELD DATA SHEET

Job No. SPG-11282 Date 4/16/75 Run 1 Office CASPER

Customer EXXON COMPANY USA. Location MYTON

State UTAH County/~~Parish~~ DUCHESNE

Well WILKIN RIDGE UNIT No. 1 Field NINE MILE CANYON

Type Test GRADIENT & BHP SHUT-IN Test Depth 0 - 11,800 Zero Point K.B.

USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time	Date
Arrive: Well/~~Dock~~	1. 0900	4/16/75	2.		3.	
Depart: Well/~~Dock~~	1. 1500	4/16/75	2.		3.	
Gauge In Lub. RUN #	1. 1100	4/16	2.		3.	
Gauge Out Lub. RUN #	1. 1420	4/16	2.		3.	

Top Gauge # 175 Element # 35804 Range 8000# Time Mode 30 SEC.

Btm. Gauge # 112 Element # 25282N Range 8000# Time Mode 30 SEC.

	Time	Date				
Time on Bottom		4/16	Starting Power	14.5 & 14 V	Fluid Level	NA
Time off Bottom		4/16	Ending Power	12½ & 13 V	Fluid Level	NA

Gauge Set At NA feet B.H. Temperature 278° F Atmos. Temperature 50° F

Datum 11,000 feet Ref. Elev. KB No. Trips 1 Miles 411

	Time	Date			
Well Open	NA	—	Well Shut-In	Already SHUT-IN	Total Mileage 822

Last Null in Lub. SEE TIME SHEET OUT-RUN, 0' DEPTH Surface Pressure 4000 psig (MARSH GAUGE)

Gradient Stops (SEE SEPERATE TIME SHEET)

Depth	In - Out Time Start	Stop	Depth	In - Out Time Start	Stop
ft.			ft.		
ft.			ft.		
ft.			ft.		

REMARKS 10 PRE-SET GRAVITY NULLS (BEFORE & AFTER) SET ON BOTH GAUGES.

300° F MAX. THERM. RUN ON TOP; 400° ON BOTTOM.

106 - OPEN VALVE - LUB. LEAKING — 1108 CLOSE & BLEED OFF.

BILL FOSTER
Operator

SP-400 (Rev.1)

PG-11282 EXXON COMPANY U.S.A. 4/16/75

ADDITIONAL FIELD DATA SHEET

1ST NULL : #112 - 1059:17
: #175 - 1051:22

OPEN VALVE TO LUBRICATOR @ 1112
1ST NULL IN LUBRICATOR @ 1115:45 & 1115:55

LAST NULL : #112 - 1425:12
: #175 - 1423:02

TOP 278°F
BTM. 220°F

sperry-sun
P.O. Box 36363 Houston, Texas 77036 Phone (713) 494-3021
Cable SPERRYSUN TELEX 76-2795

Houston, Corpus Christi, and Odessa, Tex./Lafayette, and New Orleans, La./Long Beach, and Ventura, Calif./Anchorage, Alaska/Brewton, Ala./Brookhaven, Miss./Casper, Wyo./Mercury, Nev./Oklahoma City, Okla./Vernal, Utah/Edmonton, Alta., Canada/Dubai, United Arab Emirates, Arabian Gulf/Great Yarmouth, Norfolk, England/Aberdeen, Scotland/Servco de Venezuela, Maracaibo/Trinidad Well Control, Trinidad, W. I.

PG-11282 EXXON COMPANY U.S.A. 4/16/75

GRADIENT RUN TIME SHEET

IN - RUN	DEPTH	OUT - RUN	COMMENTS
1117:30		1406:15	23
1122:30	0' 1	1401:15	1123-1125: STUFFING BOX TO TIGHT TO FALL
1128			
1131	1000' 2		OUT - STUFFING BOX LEAKING
1135:45			
1138:45	2000' 3		
1144:10			
1147:10	3000' 4		
1152:45			
1155:45	4000' 5		
1200:35			
1203:30	5000' 6		
1208:15			
1211:15	6000' 7		
1215:45			
1219:45	7000' 8		
1224:30			
1227:30	8000' 9		
1232:15			
1235:15	9000' 10		
1240:30			
1243:30	10,000' 11		
1244:45			
1247:45	10,200' 12		
1248:45			
1251:45	10,400' 13		32
1252:45		1338	
1257:45	10,447' 14	1333	HANGING DEPTH IN 10,447 OUT 10,447 (OK)
1258:45			
1301:45	10,600' 15		
1303			
1306	10,800' 16		
1307:15			
1310:15	11,000' 17		
1311:30			
1314:30	11,200' 18		
1315:15			
1318:15	11,400' 19		
1319:20			
1322:20	11,600' 20		
1323:15		1328:15	
	11,300' 21		

sperry-sun

P.O. Box 36363 Houston, Texas 77036 Phone (713) 494-3021
Cable SPERRYSUN TELEX 76-2795

Houston, Corpus Christi, and Odessa, Tex./Lafayette, and New Orleans, La./Long Beach and Ventura, Calif./Anchorage, Alaska/Brewton, Ala./Brookhaven, Miss./Casper, Wyo./Mercury, Nev./Oklahoma City, Okla./Vernal, Utah/Edmonton, Alta., Canada/Dubai, United Arab Emirates, Arabian Gulf/Great Yarmouth, Norfolk, England/Aberdeen, Scotland/Servco de Venezuela, Maracaibo/Trinidad Well Control, Trinidad, W. I.

SPERRY - SUN

SUBSURFACE PRECISION PRESSURE GAUGE CHART

JOB NO. SPG-11282

WELL NAME & NO. WIBKIN RIDGE UNIT #1 FIELD NINE MILE CANYON

AREA MYTON COUNTY / PARISH DUCHESNE STATE UTAH

RUN NO. 1 TIME / DATE START 1117 4/16/75 TIME / DATE STOP 1406 4/16/75

TOP GAUGE NO. 175 DEPTH 0-11,800' : BOTTOM GAUGE NO. 112 DEPTH 0-11,800'

TIME MODE: _____ TOP _____ BOTTOM : WORKING DEPTH TEMP. 278° F. _____

TYPE TEST GRADIENT, BHP, SHUT-IN ZERO POINT KELLY BUSHING

SP - 462 (REV. 1)

Dallas Well file

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

April 2, 1975

United States Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached are three copies of Lessee's Monthly Report of Operations and the Report of Sales and Royalty for Exxon #1 Wilkin Ridge Unit for the month of March, 1975.

Enclosed is our check #6113 in payment of royalty for flared gas per the attached report.

Very truly yours,

W. A. Grieves

W. A. Grieves
Acting Drilling Manager

EGH:bt
Attachments
cc: Dorsey Hawkins
Pacific Transmission Supply
Chorney Oil Company
Gulf Oil Corporation
Placid Oil Company
Skyline Oil Company
Mr. Gilman A. Hill
Utah Division of Oil & Gas Conservation

FORM NO. 173-0063B

SETTLEMENT OF ACCOUNT

THE ATTACHED CHECK IS IN FULL PAYMENT FOR THE ITEMS SHOWN BELOW AND CONSTITUTES RECEIPT

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION
WESTERN DIVISION

DESCRIPTION	
4-2-75 Royalty for flared gas, #1 Wilkin Ridge Unit, Duchesne County, Utah, for month of March, 1975.	$16.63

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

23-7
1020

CHECK NUMBER 6113

DENVER, COLORADO April 2, 1975

PAY Sixteen & 63/100---------- $16.63

TO THE ORDER OF
United States Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

UNITED BANK OF DENVER N. A.
DENVER, COLORADO

WESTERN DIVISION
Norma B. Poffenroth

⑈1020⑈0007⑆ 93 533 6⑈

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1975, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* W. H. Guerard

Phone (303) 761-6470 *Agent's title* Acting Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
3/1/75: Flowed well. Recovered 17.7 barrels of load oil, 18.8 barrels of water, and 266 Mcf of gas. Gas was flared.										
Shut-in the well at 11:00 PM March 1, 1975 for Pressure Build-up Test; well remained shut-in during the remainder of month.										
Summary of Production During Test in March, 1975										
			1	1 (23 hrs)	17.7	48.6	266	---	18.8	Frac volume remaining to be recovered 2333 Bbl. oil & 665 Bbl. water.

CONFIDENTIAL

157.91 (Net) Bbl of

NOTE.—There were recovered frac oil runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

892-556 U.S. GOVERNMENT PRINTING OFFICE: 1964—O-729-784

9-361
(January 1950)

Budget Bureau No. 42-R361.2.
Approval expires 12-31-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah
Lease No. U-7362

LESSEE'S MONTHLY REPORT OF SALES AND ROYALTY

Lessee Exxon Corporation Month March, 19 75

Location 29 (Section) 10-S (T.) 17-E (R.) SL (M.)

Field Ninemile Canyon Wildcat County Duchesne State Utah

Following are ALL runs and sales made this month
(If no runs or sales of any products were made, state NONE under the appropriate heading)

OIL

Tank No.	Date	Net Barrels Run	Gravity	Price Per Barrel	Value
Frac Tanks	3-20	157.91	46.3	$8.19	$1293.28
		TOTAL BARRELS RUN: 157.91	AVERAGE PRICE: $8.19	TOTAL VALUE: 1293.28	

PURCHASER OF ABOVE OIL: Koch Oil Company (Trucked)

GAS

Sales in 1,000 Cu. Ft. @ 10 oz. and 14.4#	Price per 1,000 Cu. Ft.	Value
266 (Flared)	$0.50 (No Contract)	$133.00
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE GAS: Flared in accord w/Form 9-331 approved 1/02/75 by Mr. E. W. Guynn.

GASOLINE

Sales in Gallons	Price Per Gallon	Value
NONE		
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE GASOLINE

BUTANE AND OTHER LIQUID PRODUCTS

Sales in Gallons	Price Per Gallon	Value
NONE		
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE BUTANE OR OTHER LIQUID PRODUCTS

NUMBER OF OIL PRODUCING WELLS AFFECTING ROYALTY COMPUTATIONS

ROYALTY

Product	Sales (Flared)	Royalty Rate	Royalty Quantity	Royalty Value
OIL (Barrels)	--		None	None
GAS (1,000 Cu. Ft.)	266 Mcf $133.00	.125	33.25 Mcf	$16.63
GASOLINE (Gallons)	--		None	None
BUTANE and Other Liquid Prod.	--		None	None
TOTAL VALUE OF ROYALTY				

*Where applicable state "None"

ACKNOWLEDGMENT

I have read and examined the statements made hereon and find them true, accurate, and complete.

(Signature and title of officer authorized to sign for lessee)

W. A. Grieves, Acting Drilling Mgr.

(Lessee or Operator)

CONFIDENTIAL

Section 35 (A) of the United States Criminal Code, 18 U. S. C. 80, makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.

This form to be properly prepared and filed IN DUPLICATE with the supervisor on or before the 6th day of the succeeding month. Sales may be itemized on any other convenient form and attached to this report.

U. S. GOVERNMENT PRINTING OFFICE 16—16504-4

JH
1-Dallas
1-Well File

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 19 75, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed*

Phone (303) 761-6470 *Agent's title* Drilling Manager

Sec. and ¼ or ¼	Twp.	Range	Well No.	Date Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
			1	1	30.1	49.5	284	-	29.9	
				2	33.1	49.4	298	-	56.2	
				3	26.5	49.2	260	-	28.0	
				4	36.0	49.7	274	-	25.5	
				5	35.6	50.1	286	-	22.1	
				6	19.0	50.6	305	-	9.3	
				7	39.7	50.4	388	-	21.7	
				8	30.4	49.7	332	-	20.9	
				9	24.6	49.5	373	-	22.0	
				10	26.3	48.6	312	-	21.8	
				11	26.4	49.3	351	-	20.1	
				12	21.2	49.8	383	-	18.6	
				13	21.1	49.6	308	-	18.5	
				14	22.2	49.0	312	-	17.5	
				15	17.4	49.5	336	-	18.0	
				16	14.2	48.2	260	-	12.4	
				17	20.3	48.9	337	-	17.4	
				18	22.5	49.1	423	-	18.5	
				19	17.9	48.7	288	-	20.1	
				20	19.2	48.6	342	-	17.6	
				21	16.0	48.9	315	-	18.7	
				22	20.3	48.7	306	-	17.6	
				23	14.8	48.6	309	-	18.4	
				24	17.2	49.2	303	-	19.2	
				25	16.9	48.6	314	-	19.6	CONFIDENTIAL
				26	17.7	48.6	316	-	18.7	
				27	12.0	48.4	283	-	17.9	
				28	15.9	48.4	290	-	19.0	
			TOTAL:		634.5		8,888		585.6	Gas Flared

NOTE.—There were 1101.82 (Net) bbls runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.) (of recovered frac oil)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

892-556 U.S. GOVERNMENT PRINTING OFFICE: 1964—O-729-784

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 19 75, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation
Denver, Colorado 80201 *Signed*

Phone (303) 761-6470 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
2/1/75 - 2/28/75: Flowed well. Recovered 634.5 barrels of load oil, 585.6 barrels of water, and 8,888 Mcf of gas. Gas was flared.										
Summary of Production During Test in February 1975										
			1	28	634.5	50.6 to 48.4	8,888	--	585.6	Frac volume remaining to be recovered: 2351 Bbl. oil and 683 Bbl. water.

CONFIDENTIAL

1101.82 (Net) Bbl. of

NOTE.—There were recovered frac oil runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

892-556 U.S. GOVERNMENT PRINTING OFFICE: 1964—O-729-784

9-361
(January 1950)

Budget Bureau No. 42-R361.2.
Approval expires 12-31-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. U-7362

LESSEE'S MONTHLY REPORT OF SALES AND ROYALTY

Lessee Exxon Corporation Month February, 1975

Location 29 (Section) 10-5 (T.) 17-E (R.) SL (M.)

Field Ninemile Canyon Wildcat County Duchesne State Utah

Following are ALL runs and sales made this month
(If no runs or sales of any products were made, state NONE under the appropriate heading)

OIL

Tank No.	Date	Net Barrels Run	Gravity	Price Per Barrel	Value
Frac Tanks	2-3	751.65	49.9°	$8.19	$6,156.01
	2-22	350.17	48.6°	$8.19	$2,867.89
		TOTAL BARRELS RUN 1101.82	AVERAGE PRICE $8.19		TOTAL VALUE $9023.90

PURCHASER OF ABOVE OIL
Koch Oil Company (Trucked)

GAS

Sales in 1,000 Cu. Ft. @ 10 oz. and 14.4#	Price per 1,000 Cu. Ft.	Value
8,888 (Flared)	$0.50 (No contract)	$4,444.
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE GAS
Flared in accord w/Form 9-331 approved 1/02/75 by Mr. E. W. Guynn.

GASOLINE

Sales in Gallons	Price Per Gallon	Value
NONE		
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE GASOLINE

BUTANE AND OTHER LIQUID PRODUCTS

Sales in Gallons	Price Per Gallon	Value
NONE		
TOTAL	AVERAGE	TOTAL

PURCHASER OF ABOVE BUTANE OR OTHER LIQUID PRODUCTS

NUMBER OF OIL PRODUCING WELLS AFFECTING ROYALTY COMPUTATIONS

ROYALTY

Product	Sales	Royalty Rate	Royalty Quantity	Royalty Value
OIL (Barrels)	--		None	None
GAS (1,000 Cu. Ft.)	8,888 Mcf (Flared) $4,444.00	.125	1,111 Mcf	$555.50
GASOLINE (Gallons)	--		None	None
BUTANE and Other Liquid Prod.	--		None	None
TOTAL VALUE OF ROYALTY				

*Where applicable state "None"

ACKNOWLEDGMENT

I have read and examined the statements made hereon and find them true, accurate, and complete.

(*Signature and title of officer authorized to sign for lessee*)

(Lessee or Operator)

Sr. Staff Engineer

CONFIDENTIAL

Section 35 (A) of the United States Criminal Code, 18 U. S. C. 80, makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.

This form to be properly prepared and filed IN DUPLICATE with the supervisor on or before the 6th day of the succeeding month. Sales may be itemized on any other convenient form and attached to this report.

U. S. GOVERNMENT PRINTING OFFICE 16--16504-4

WESTERN EXPLORATION DIVISION
EXXON COMPANY, U.S.A.
TRANSMITTAL FORM

To Placid Oil Company From Bill Grieves

Well Wilkin Ridge Unit #1 Date February 6, 1975

Transmitted herewith are the following for the subject well:

Quantity	Item	Interval	Remarks
	Dual Induction Log		
	Induction Electric Log		
	Sonic Log w/S.P.		
	Sonic Log w/G.R.		
	Density Log w/G.R.		
	Sidewall Neutron		
	Compensated Neutron		
	Continuous Dipmeter		
	Continuous Dipmeter Plot		
	Cont. Dipmeter Printout		
	Proximity-Microlog		
	Perforating Depth Control		
	Cement Bond Log		
	Cased Hole Neutron		
	Temperature Log		
	Synergetic Logs		
	Mudlogs		
	Sidewall Cores		
	Sidewall Core Description		
	Sidewall Core Analysis		
	Conventional Cores		
	Core Description		
	Core Analysis		
	Unwashed Cuttings		
	Washed & Dried Samples		
	Sample Description		
	Canned Cuttings		
1	Engineered Production Logging	FINAL	

Receipt Acknowledged C. Conlin Date 2-7-75

Return signed receipt to: Exxon Company, U.S.A.
P. O. Box 120
Denver, CO 80201
Attn: Mr. John R. Switzer

JH
1 - Dallas
1 - Well file

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

February 5, 1975

United States Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached are three copies of Lessee's Monthly Report of Operations on Wells for Exxon #1 Wilkin Ridge Unit for the month of January, 1975.

Enclosed is our check #5844 in payment of royalty for flared gas per the attached report.

Very truly yours,

Gene D. Thompson

GDT:sjg

Attachments

cc: Dorsey Hawkins
Pacific Transmission Supply
Chorney Oil Company
Gulf Oil Corporation
Placid Oil Company
Skyline Oil Company
Mr. Gilman A. Hill
Utah Division of Oil & Gas Conservation

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, *19* 75, Exxon #1 Wilkin Ridge Unit

Agent's address P. O. Box 120 *Company* Exxon Corporation
Denver, Colorado 80201 *Signed* Gene D. Thompson
Phone (303) 761-6470 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							

1/1/75-1/6/75: Flowed back 248 bbls. load water and flared 186 Mcf of gas following the breakdown of perfs w/KCl water, as reported last month. Ran 3/4" coil tubing to 12100' in casing and lifted fluid w/nitrogen on 1/2 and 1/3/75.

1/7/75: Fraced well through Mesa Verde perforations (10535-12130') w/9248 bbls. polymulsion fluid (5900 bbls. refined oil and 3348 bbls. KCl water) and 875,000 pounds of sand (455,000# 40-60 mesh and 420,000# 20-40 mesh). Flowed back 1294 bbls. load oil and 651 bbls. load water.

1/8/75-1/31/75: Flowed well. Recovered 1620 bbls. load oil, 1428 bbls. water, and 4176 Mcf gas. Gas was flared.

Well flowed while tubing was stripped in the hole on 1/13, 1/14, and 1/17/75. Set 2-7/8" tubing at 10,449'.

Rig was released at 12:00, noon, 1/18/75, and moved out prior to 1/25/75. Testing of well continues.

Summary of Production During Test in January 1975

1	30	2914 (Frac Oil)	51.6 to 48.5	4,362	-----	2,327	Frac volume remaining to be recovered: 2986 bbls. oil and 1269 bbls. water.

CONFIDENTIAL

2103.49 (Net) bbls. of recovered

NOTE.—There were frac oil runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Duchesne Unit Field Ninemile Canyon Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 19 75

Agent's address P. O. Box 120 Denver, Colorado 80201

Company Exxon Corporation

Signed John F. Sprouse

Phone (303) 761-6470

Agent's title Senior Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	Date PRODUCED	BARRELS OF OIL Frac Oil	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
			1	1					50	All Gas Flared
				2			21		173	During Month.
				3			27		25	
				4			38			
				5			79			
				6			21			
Frac Job on 7th				7	1294.	51.6			651	
				8	288.5	51.6			352	
				9	207.9	51.0			212	
				10	155.	51.3	97		103	
				11	146.	51.6	149		72	
				12	113.1	50.8	183		48	
				13	39	50.4	260		87	
				14	13.7	50.5	140		10	
				15	125.8	49.6	133		43	
				16	15.1	49.9	73		7	
				17	28.5	49.8	141		10	
				18	67.	49.4			105	
				19	19.	49.7			17	
				20	9.4	48.5			6	
				21	14.4	50.6	26		7	
				22	26.8	49.3	271		35	
				23	34.5	49.3	199		54	
				24	19.2	49.0	312		55	
				25	44.9	50.5	257		27	
				26	40.2	49.8	274		31	
				27	38.8	49.7	319		29	
				28	59.3	50.4	356		32	CONFIDENTIAL
				29	22.9	49.8	298		23	
				30	46.7	69.6	309		31	
				31	44.6	50.0	379		32	
		TOTAL			2914.3		4362		2327	Gas Flared

2103.49 bbls. (Net) of

NOTE.—There were recovered Frac Oil runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

9-361
(January 1950)

Budget Bureau No. 42-R361.2.
Approval expires 12-31-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Utah
Lease No. U-7362

LESSEE'S MONTHLY REPORT OF SALES AND ROYALTY

Lessee Exxon Corporation Month January, 1975

Location of Unit: 29 (Section) 10-S (T.) 17-E (R.) SL (M.)

Field Ninemile Canyon Wildcat County Duchesne State Utah

Following are ALL runs and sales made this month
(If no runs or sales of any products were made, state NONE under the appropriate heading)

OIL

Tank No.	Date	Net Barrels Run	Gravity	Price Per Barrel	Value
Frac Tanks	1-8	590.71	51.9	$8.19	$4,837.91
	1-11	376.92	51.5	$8.19	$3,086.97
	1-11	753.48	51.5	$8.19	$6,171.00
	1-14	382.38	51.5	$8.19	$3,131.69
		Total Barrels Run: 2,103.49 *	Average Price: $8.19		Total Value: $17,227.57

* See attached Lessee's Monthly Report of Operations. 2,103.49 barrels run and sold of total of 5900 barrels frac oil used.

Purchaser of Above Oil: Koch Oil Company (Trucked)

GAS

Sales in 1,000 Cu. Ft. @ 10 oz. and 14.4#	Price per 1,000 Cu. Ft.	Value
4362 (Flared)	$0.50 (No Contract)	$2,181.00
Total	Average	Total

Flared in accord w/Form 9-331 approval 1/2/75

Purchaser of Above Gas: by Mr. E. W. Guynn

GASOLINE

Sales in Gallons	Price Per Gallon	Value
None		
Total	Average	Total

Purchaser of Above Gasoline

BUTANE AND OTHER LIQUID PRODUCTS

Sales in Gallons	Price Per Gallon	Value
None		
Total	Average	Total

Purchaser of Above Butane or Other Liquid Products

Number of Oil Producing Wells Affecting Royalty Computations: _____

ROYALTY

Product	Sales	Royalty Rate	Royalty Quantity	Royalty Value
OIL (Barrels)	----		None	None
GAS (1,000 Cu. Ft.)	$2,181.00	.125	545.25	$272.63
GASOLINE (Gallons)	----		None	None
BUTANE and Other Liquid Prod.	-----		None	None
Total Value of Royalty				$272.63

*Where applicable state "None"

ACKNOWLEDGMENT

I have read and examined the statements made hereon and find them true, accurate, and complete.

(*Signature and title of officer authorized to sign for lessee*)

EXXON COMPANY, U.S.A.
(Lessee or Operator)

By Gene D. Thompson
Gene D. Thompson,
Drilling Manager

Section 35 (A) of the United States Criminal Code, 18 U. S. C. 80, makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.

This form to be properly prepared and filed IN DUPLICATE with the supervisor on or before the 6th day of the succeeding month. Sales may be itemized on any other convenient form and attached to this report.

U. S. GOVERNMENT PRINTING OFFICE 16—16504-4

WESTERN EXPLORATION DIVISION
EXXON COMPANY, U.S.A.
TRANSMITTAL FORM

To Placid Oil From Bill Griess

Well William Pidge #1 Date 11/29/85

Transmitted herewith are the following for the subject well:

Quantity	Item	Interval	Remarks
	Dual Induction Log		
	Induction Electric Log		
	Sonic Log w/S.P.		
	Sonic Log w/G.R.		
	Density Log w/G.R.		
	Sidewall Neutron		
	Compensated Neutron		
	Continuous Dipmeter		
	Continuous Dipmeter Plot		
	Cont. Dipmeter Printout		
	Proximity-Microlog		
	Perforating Depth Control		
	Cement Bond Log		
	Cased Hole Neutron		
1	Temperature Log	Final	
	Synergetic Logs		
	Mudlogs		
	Sidewall Cores		
	Sidewall Core Description		
	Sidewall Core Analysis		
	Conventional Cores		
	Core Description		
	Core Analysis		
	Unwashed Cuttings		
	Washed & Dried Samples		
	Sample Description		
	Canned Cuttings		

Receipt Acknowledged [signature] Date 12/3/85

Return signed receipt to: Exxon Company, U.S.A.
P. O. Box 120
Denver, CO 80201
Attn: Mr. John R. Switzer

HALLIBURTON SERVICES

JOB LOG

TICKET NO. _____

CUSTOMER EXXON No. 1 WILKIN RIDGE PAGE NO. 1

JOB TYPE MASSIVE FRAC WITH SEMFLUID DATE 1/6/75

FORM 2013

CHART NO.	TIME	RATE (BPM)	VOLUME ~~(total)~~ (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
			250,000					USABLE CONDENSATE
			140,000					USABLE GELLED WATER
			20,000					USABLE 2% KCl WATER
			250,000					CONDENSATE FOR THE JOB
			132,000					GELLED WATER FOR THE JOB
			13,346					KCl WATER FOR THE FLUSH
			10,000					EXTRA CONDENSATE
			8,000					EXTRA GELLED WATER
			6,600					EXTRA KCl WATER
								EQUIPMENT ON LOCATION
								10,000 HHP
								1 100 BPM BLENDER
								1 50 BPM STANDBY BLEN
								2 FIRE TRUCKS
								4 2560 CUFT STORAGE GI
								4200 SACKS OF 20/40 SAND
								4550 SACKS OF 40/60 SAND
								21 500 BARREL TANKS
								2 3" 10,000 PSI LINES TO W
								CASING VOLUME
			8006					17 #/FT 5 1/2"
			3660					20 #/FT 5 1/2"
			1680					SURFACE EQUIPMENT
			13,346					TOTAL FLUSH
							7,000	MAXIMUM JOB PRESSURE

JOB LOG

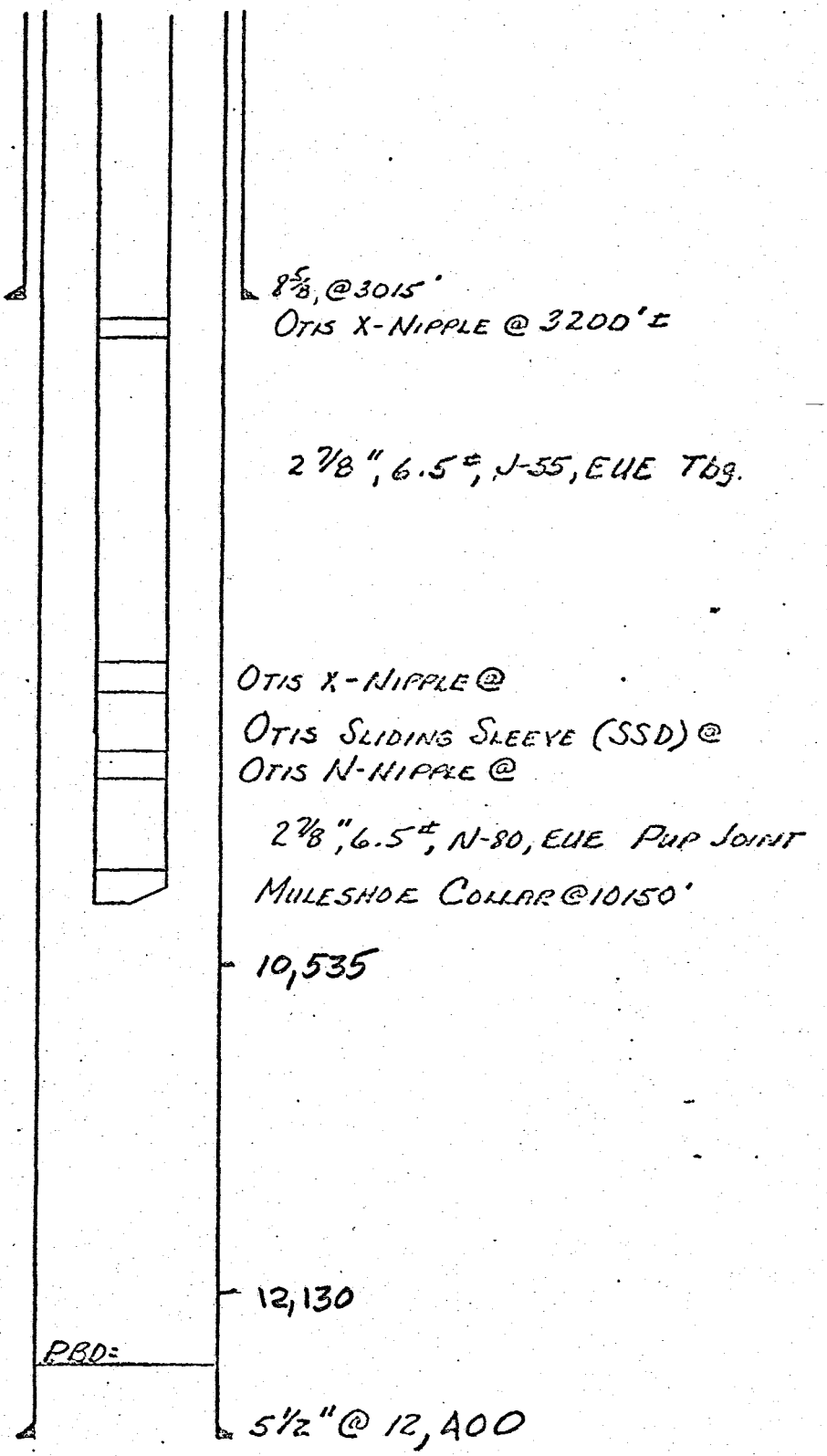
CUSTOMER EXXON No. 1 WILKIN RIDGE PAGE NO. 2

JOB TYPE SUPER EMULSIFRAC DATE 1/6/75

FORM 2013

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
								1/4/75
								MOVE IN SUCTION MANIFOLDS
								AND SAND TANKS
								1/5/75
								RIG UP PUMP TRUCKS
								1/6/75
								GEL WATER TANKS & RIG UP
								SAFETY MEETING
							8000	TEST LINES WITH CONDENSATE
								1/7/75
								SAFETY MEETING
								CHECK PUMPS
								LOAD HOLE WITH KCl WATER
							8000	TEST LINES
								BREAK DOWN
			30,000					SEM PAD
		40	40,000				6500	1 PPG 40/60 SAND
			30,000					2 PPG 40/60 SAND
			30,000					3 PPG 40/60 SAND
			30,000					4 PPG 40/60 SAND
			40,000					3 PPG 20/40 SAND
			40,000					4 PPG 20/40 SAND
			20,000					SEM PAD WITH ± 30 RCN BALLS
			25,000					1 PPG 40/60 SAND
			30,000					2 PPG 40/60 SAND
			20,000					3 PPG 40/60 SAND
			20,000					3 PPG 20/40 SAND
			20,000					4 PPG 20/40 SAND
			13,346					FLUSH
								15 MINUTE SHUT IN
								FLOW WELL TO THE PIT FOR ± 1 MINUTE
								SHUT IN FOR 45 MINUTES VACUUM LINE
								BREAK OUT FRAC IRON
								FLOW THE WELL TO THE PIT AND REC FLUSH WATER
								PLACE THE WELL ON PRODUCTION

EXXON #1 WILKIN RIDGE UNIT
WELLBORE SCHEMATIC



12/9/74
DS

GDT

INTERVALS SELECTED FOR FRACTURING

EXXON #1 WILKIN RIDGE UNIT

Interval	Gross Thickness	Perforations
Depths from Run #1 BHC-Gamma Ray		
10235-10365		
10505-10615	110	10535, 10544, 10555, 10584, 10600, 10607
10885-10925	40	10902, 10910, 10918
10950-11045	95	10966, 10973, 10980, 11018, 11027, 11036
11065-11090	25	11070, 11079, 11085
11135-11195	60	11142, 11148, 11166, 11174, 11187
11285-11335	50	11296, 11303, 11324
Depths from Run #2 BHC-Gamma Ray		
11490-11510	20	11504
11540-11590	50	11552, 11562, 11577, 11584
11795-11830	35	11806, 11815, 11823
11880-12140	260	11885, 11898, 11908, 11918, 11960, 11968, 11994, 12004, 12014, 12062, 12068, 12118, 12124, 12130
Total	~~875~~ 745	~~58~~ 47

ALLIBURTON SERVICES
JOB SUMMARY

DIVISION Denver
HALLIBURTON LOCATION Vernal
BILLED ON TICKET NO. 881794

WELL DATA

9 mile Canyon SEC. ____ TWP. ____ RNG. ____ COUNTY Duchesne STATE Utah

ATION NAME ____ TYPE ____
ATION THICKNESS ____ FROM ____ TO ____
L PRODI OIL ____ BPD.WATER ____ BPD.GAS ____ MCFD
ENT PRODI OIL ____ BPD.WATER ____ BPD.GAS ____ MCFD
LETION DATE ____ MUD TYPE ____ MUD WT. ____
ER TYPE ____ SET AT ____
OM HOLE TEMP. ____ PRESSURE ____
DATA ____

	NEW USED	SIZE	FROM	TO	WEIGHT	MAXIMUM PSI ALLOWABLE
CASING	U	8				
LINER	U	5½	0	TD		
TUBING						
OPEN HOLE					TOTAL DEPTH:	
PERFORATIONS			10535	12130	48	SHOTS/FT.
PERFORATIONS						SHOTS/FT.
PERFORATIONS						SHOTS/FT.

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 0500	DATE 12830	DATE 12-30	DATE 12-30
TIME 12830	TIME 0830	TIME 1455	TIME 1545

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
T COLLAR		
T SHOE		
SHOE		
ALIZERS		
M PLUG		
LUG		
ER		

PERSONNEL AND SERVICE UNITS

NAME	EMPL. NO.	UNIT NO. & TYPE	LOCATION
D. McDuff		Fraco	Vernal
L. Elmer		8565-M-50	"
D. Weeks		2532 H-T400	"
L. Burgon		3863 H-T400	"
K. Brown		3862 IRON	"
J. Lasater		Engineer	"

MATERIALS

PLUID H_2O w/KCl @ 2% by wt. DENSITY ____ LB/GAL.-API
PLUID ____ DENSITY ____ LB/GAL.-API
TYPE ____ SIZE ____ LB. ____
TYPE ____ SIZE ____ LB. ____
TYPE ____ GAL. ____ % ____
TYPE ____ GAL. ____ % ____
TYPE ____ GAL. ____ % ____
CTANT TYPE ____ GAL. ____ IN ____
ENT TYPE ____ GAL. ____ IN ____
LOSS ADD.TYPE ____ GAL.-LB. ____ IN ____
G AGENT TYPE ____ GAL.-LB. ____ IN ____
RED. AGENT TYPE FR-20 GAL.-LB. 100 IN 5#/1000
ER TYPE ____ GAL.-LB. ____ IN ____
ING AGENT TYPE ____ GAL.-LB. ____
AC BALLS TYPE RCP 1.4 sg QTY. 100

DEPARTMENT Cmt.
DESCRIPTION OF JOB H_2O Breakdown

JOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X [signature]

HALLIBURTON OPERATOR D.M. McDuff COPIES REQUESTED ____

CEMENT DATA

E	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.

SUMMARY

PRESSURES IN PSI

ATING ____ DISPLACEMENT ____
OWN ____ MAXIMUM 6900
E 5400 FRACTURE GRADIENT ____
INSTANT 6500 5-MIN. 4600 15-MIN. 4360

HYDRAULIC HORSEPOWER

2000 AVAILABLE 2000 USED ~~2150~~ 2000

AVERAGE RATES IN BPM

16 DISPL. ____ OVERALL 16

CEMENT LEFT IN PIPE

____ REASON ____

VOLUMES

PREFLUSH: BBL.-GAL. ____ TYPE ____
LOAD & BKDN: BBL.-GAL. 18,740 PAD: BBL.-GAL. ____
TREATMENT: BBL.-GAL. ____ DISPL: BBL.-GAL. ____
CEMENT SLURRY: BBL-GAL. ____
TOTAL VOLUME: BBL.-GAL. 18,740

REMARKS

CUSTOMER Exxon Co. U.S.A. LEASE Wilkins Ridge WELL NO. #01 JOB TYPE H_2O Breakdown DATE 12-30-74

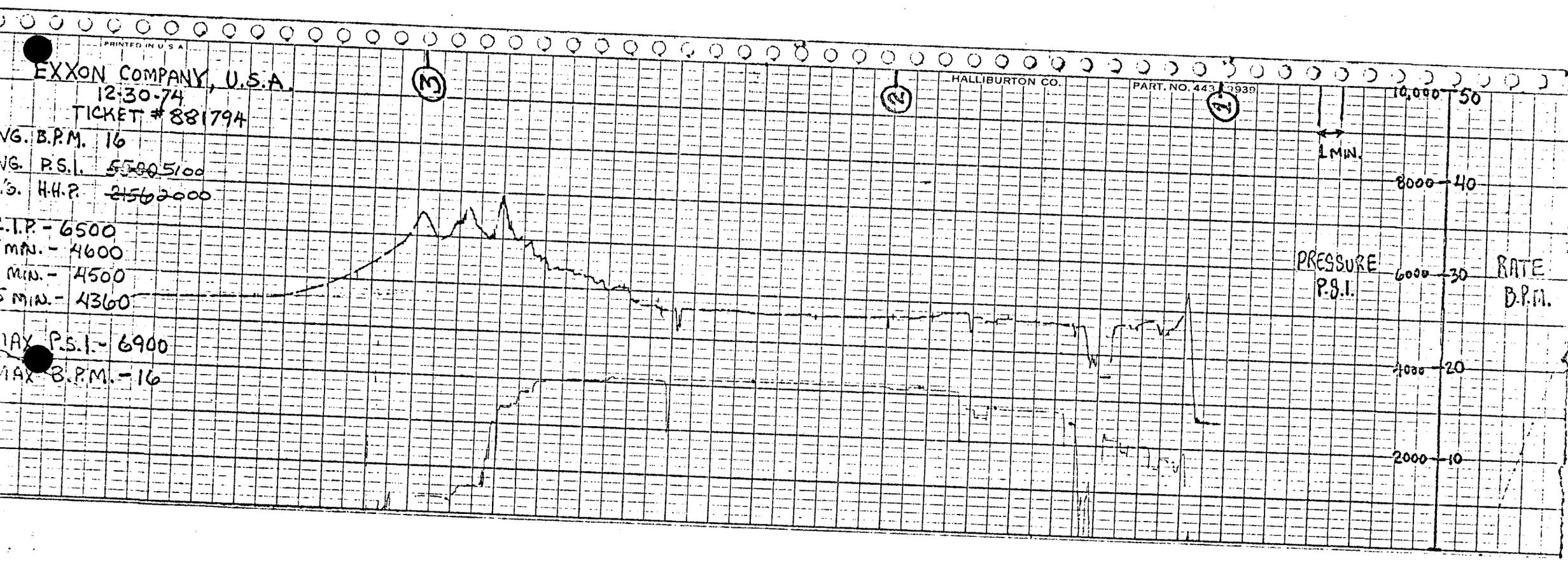
JOB LOG

CUSTOMER Exxon Co. U.S.A. PAGE NO. 1 of 1

JOB TYPE H2O Breakdown DATE 12-30-74

FORM 2013 R-1

CHART NO.	TIME	RATE (BPM)	VOLUME (~~BBLS~~) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1400							Safety Meeting
	1430							Prime pumps & test lines to 8000 P.S.
1	1455	0	0				2500	Start job w/ 2 balls ea 160 gal.
2	1525	15.6	8000				4700	End balls
3	1545	2	18,740				6500	Ball out, end job
								I.C.I.P. - 6500
								5 MIN - 4600
								10 MIN. - 4500
								15 MIN - 4360
								AVG. B.P.M. - 16
								AVG. P.S.I. - ~~5500~~ 5100
								AVG. H.H.P. - ~~8450~~ 2000


PRINTED IN U.S.A.
EXXON COMPANY, U.S.A.
12-30-74
TICKET # 881794
VG. B.P.M. 16
VG. P.S.I. 5500 5100
G. H.H.P. 2562000
.I.P. - 6500
MIN. - 4600
MIN. - 4500
5 MIN. - 4360
AX P.S.I. - 6900
AX B.P.M. - 16
HALLIBURTON CO.
PART. NO. 443 0939
3
2
1
1 MIN.
10,000
8000
6000
4000
2000
50
40
30
20
10
PRESSURE P.S.I.
RATE B.P.M.

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

January 3, 1975

United States Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached are three copies of Lessee's Monthly Report of Operations on Wells for Exxon #1 Wilkin Ridge Unit for the month of December, 1974.

Yours very truly,

Gene D. Thompson

/sjg

Attachments

cc: Dorsey Hawkins
Pacific Transmission Supply
Chorney Oil Company
Gulf Oil Corporation
Placid Oil Company
Skyline Oil Company
Mr. Gilman A. Hill
Utah Division of Oil & Gas Conservation

CONFIDENTIAL

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Wilkin Ridge Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 19 74, Exxon #1 Wilkin Ridge Unit (Wildcat)

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* [signature]

Phone (303) 761-6470 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth: if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							

12/1/74-12/3/74
Ran DIL and Sonic-GR logs from 12,402'-11,300' with Sonic caliper to 10,000'. Ran Density-CNL logs from 12,402'-11,300' with caliper to 10,000' and from 4,600' to 3,015'.

12/3/74-12/5/74
Fishing for stuck sidewall core gun. Recovered fish. Shot 9 bullets, recovered 1 core - coal.

12/5/74-12/10/74
Conditioned hole and ran 5-1/2" casing to 12,390' with 1140 sacks Class "G" cement with 4% gel. Good returns throughout job.

12/10/74-12/19/74
WOC. Installed casing head. Ran Gamma Ray Collar and Cement Bond logs. Picked up and ran tubing.

12/19/74-12/24/74
Perforated 10,241', 10,248', 10,252', 10,255'. Injected KCl water. Tracer showed flow uphole behind casing. Squeezed perfs with 100, 200 and 200 sacks cement.

12/25/74
Shut down.

12/26/74-12/31/74
Drilled out cement from 10,125' to 10,255'. Perforated 47 holes 10535' to 12130'. Broke down perforations with KCl water and balled out at 6900 psi. Injected 446 bbls. water. Opened well to tanks and flowed back 360 bbls. water in 2 days.

CONFIDENTIAL

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

Schlumberger

SCHLUMBERGER WELL SERVICES
5000 GULF FREEWAY, P.O. BOX 2175
HOUSTON, TEXAS 77001, (713) 928-2511

PLEASE REPLY TO
1700 SECURITY LIFE BUILDING
1616 GLENARM PLACE
DENVER, COLORADO 80202

December 6, 1974

Exxon Company, USA
P. O. Box 120
Englewood, Colorado 80110

RE: Dipmeter Interpretation on Wilkin Ridge Unit #1
ATTN: Mr. Grieves

Dear Sir:

Enclosed is the interpretation of the structural computation (4'x2'x30°) and the stratigraphic interpretation (2'x1'x30°).

The structural computation indicates a structural dip of 1.5° downdip to the north (5° Azimuth) and shows several sands requiring stratigraphic interpretation.

The stratigraphic interpretation is based on the 2'x1'x30° computation without structure deleted. The following fourteen sands were investigated by this procedure:

The zone at 7260' to 7296' has an overall slope pattern with transport in the north direction. It appears to be either Valley fill or channel fill from the side. In both cases, the strike of the sand should be east-west. (See attachment 1)

The zone at 7831' to 7851' appears to have a possible NE-SW strike. (See attachment 2)

The zone at 8223' to 8256' has a slope pattern indicating a strike of NNW-SSE with possible transport to the NNE. (See attachment 3)

The zone at 10,326' to 10,360' exhibits a possible channel appearance with a strike of NNE-SSW and transport to the NNE. (See attachment 4)

The zone at 10,525' to 10,548' exhibits possible channel characteristics with a strike of NE-SW and with transport to the NW. (See attachment 5)

The zone at 10,600' to 10,610' has a good slope pattern indicating the strike to be NNW-SSE. (See attachment 6)

The zone at 10,656' to 10,714' does not have good dip data, but appears to have a possible east-west strike. (See attachment 7)

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

The zone at 10,724' to 10,790' also does not exhibit high quality dip data and could be a possible dune sand. It does have a slope pattern indicating the strike of the sand body is NNE-SSW. (See attachment 8)

The zone at 10,897' to 10,923' has a slope pattern above the zone indicating an east-west strike and a slope pattern within the sand body confirming this strike. (See attachment 9)

The zone at 10,952' to 10,998' exhibits a good transport pattern within the zone indicating deposition from the west to the east. The strike would also be along this direction. This zone is particularly important since the SARABAND analysis indicates possible hydrocarbons. (See attachment 10)

The zone at 11,012' to 11,045' has a good slope pattern showing an east-west strike. SARABAND also indicates possible hydrocarbons. (See attachment 11)

The zone at 11,066' to 11,909' has a good slope pattern also showing an east-west strike. (See attachment 12)

The zone at 11,137' to 11,153' has a transport pattern indicating a NNE-SSW strike. (See attachment 13)

The zone at 11,161' to 11,195' has a good transport to the south and a slope pattern also to the south. There is also a south drape pattern above the sand. These indicate an east-west strike. (See attachment 14)

The most interesting point of the ~~dipmeter study is the~~ sands in the lower section of the well that trend east-west appear to contain hydrocarbons and those trending north-south do not. The regional dip is downdip to the north and traps do not seem to be formed along this strike, possibly due to southern communication.

Exploration for the indicated hydrocarbon sands in the interval 10,900' to 11,200' should be favorable along the east-west strike.

This dipmeter information should be helpful in the development of this area. If there are any questions, please call us.

Sincerely yours,

SCHLUMBERGER WELL SERVICES

L. M. "Mike" Grace
Sales Engineer--Dipmeter

LMG:cm

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. BOX 2794
CASPER, WYOMING 82601

GAS ANALYSIS REPORT

COMPANY: Exxon Co., U.S.A.
WELL NO. : Unit #N-1
FIELD: Wilkins Ridge
COUNTY:
STATE:
LINE PRESSURE: - PSIG
TEMPERATURE: - DEGREES F

DATE: December 10, 1974 LAB. NO. 14495
LOCATION:
FORMATION:
DEPTH:
SAMPLING POINT:
SAMPLE PRESSURE: 0 PSIG
CONTAINER NO. theirs

Sample taken 11-15-74 @ 12:15a.m. (no other information given)

COMPONENT	MOLE % OR VOLUME %	GALLONS PER MCF
OXYGEN	0.00	
NITROGEN	5.03	
CARBON DIOXIDE	0.00	
HYDROGEN SULFIDE	0.00	
METHANE	78.48	
ETHANE	11.31	
PROPANE	3.14	0.861
ISO-BUTANE	0.70	0.228
N-BUTANE	0.55	0.174
ISO-PENTANE	0.24	0.088
N-PENTANE	0.13	0.047
HEXANES & HIGHER	0.42	0.193
TOTAL	100.00	1.591

GPM OF PENTANE & HIGHER FRACTION 0.328

GROSS BTU/CU FT @ 60F & 14.7 PSIA(DRY BASIS).. 1152.
SPECIFIC GRAVITY (CALCULATED FROM ANALYSIS)... 0.697
SPECIFIC GRAVITY (MEASURED)..... 0.695

MARKS: ANALYSIS CORRECTED FOR 14.23 % AIR CONTAMINATION

1-Dallas
1-Well file

WESTERN EXPLORATION DIVISION
EXXON COMPANY, U.S.A.
TRANSMITTAL FORM

To Placid Oil Company From John R. Switzer

Well Wilkin Ridge Unit Date December 18, 1974

Transmitted herewith are the following for the subject well:

Quantity	Item	Interval	Remarks
	Dual Induction Log		
	Induction Electric Log		
	Sonic Log w/S.P.		
	Sonic Log w/G.R.		
	Density Log w/G.R.		
	Sidewall Neutron		
	Compensated Neutron		
	Continuous Dipmeter		
	Continuous Dipmeter Plot		
	Cont. Dipmeter Printout		
	Proximity-Microlog		
	Perforating Depth Control		
	Cement Bond Log		
	Cased Hole Neutron		
	Temperature Log		
	Synergetic Logs		
	Mudlogs		
	Sidewall Cores		
	Sidewall Core Description		
	Sidewall Core Analysis		
	Conventional Cores		
	Core Description		
	Core Analysis		
	Unwashed Cuttings		
	Washed & Dried Samples		
	Sample Description		
	Canned Cuttings		
1	Gas Analysis Report		Lab No. 14495

Receipt Acknowledged _____ Date _____

Return signed receipt to: Exxon Company, U.S.A.
P. O. Box 120
Denver, CO 80201
Attn: Mr. John R. Switzer

HP 1 - Dallas
1 - Wellfile

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION DEPARTMENT
WESTERN DIVISION

DORSEY HAWKINS
DIVISION ACCOUNTANT

CONFIDENTIAL

December 11, 1974

U. S. Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached for your approval are three copies of Sundry Notices and Reports on Wells for Exxon #1 Wilkin Ridge Unit which covers our completion efforts and necessary gas flaring.

Our Sundry Notice dated December 10, 1974 requesting approval for a massive frac treatment was not marked confidential. Please stamp this report "Confidential" and restrict access to this well file under your normal confidential procedures.

Yours very truly,

D. M. Vlazny

DMV:sp
Attachments (3)

cc Utah Division of Oil & Gas Conservation (2)
Pacific Transmission Supply (2)
Chorney Oil Company (2)
Gulf Oil Corporation (2)
Placid Oil Company (2) ←
Skyline Oil Company (2)
Mr. Gilman A. Hill (1)
Mr. Gene D. Thompson (1)

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

7. UNIT AGREEMENT NAME
Wilkin Ridge Unit

2. NAME OF OPERATOR
Exxon Corporation

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR
P. O. Box 120; Denver, Colorado 80201

9. WELL NO.
Exxon #1 Wilkin Ridge Unit

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface
1,980' FNL, 2,055' FWL

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29-T10S-R17E, SLM

14. PERMIT NO.
API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6,192' RDB

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	X	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS		(Other)			
(Other) Gas flaring during testing			X	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

During the completion attempt on this wildcat well it will be necessary to flare gas. After perforating, the well will be tested for 2 or 3 days to determine its potential prior to a massive frac treatment. After the stimulation, a larger testing period will be required, approximately 30 days, to determine if gas can be produced in commercial quantity. All gas will be metered. Your approval is requested.

CONFIDENTIAL

18. I hereby certify that the foregoing is true and correct

SIGNED John F. Richardson TITLE Senior Staff Engineer DATE 12/11/74
John F. Richardson

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Schlumberger

SCHLUMBERGER WELL SERVICES
5000 GULF FREEWAY, P.O. BOX 2175
HOUSTON, TEXAS 77001, (713) 928-2511

HP

PLEASE REPLY TO
1700 SECURITY LIFE BUILDING
1616 GLENARM PLACE
DENVER, COLORADO 80202

December 6, 1974

Exxon Company, USA
P. O. Box 120
Englewood, Colorado 80110

RE: Dipmeter Interpretation on Wilkin Ridge Unit #1
ATTN: Mr. Grieves

Dear Sir:

Enclosed is the interpretation of the structural computation (4'x2'x30°) and the stratigraphic interpretation (2'x1'x30°).

The structural computation indicates a structural dip of 1.5° downdip to the north (5° Azimuth) and shows several sands requiring stratigraphic interpretation.

The stratigraphic interpretation is based on the 2'x1'x30° computation without structure deleted. The following fourteen sands were investigated by this procedure:

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The zone at 10,656' to 10,714' does not have good dip data, but appears to have a possible east-west strike. (See attachment 7)

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

The zone at 10,724' to 10,790' also does not exhibit high quality dip data and could be a possible dune sand. It does have a slope pattern indicating the strike of the sand body is NNE-SSW. (See attachment 8)

The zone at 10,897' to 10,923' has a slope pattern above the zone indicating an east-west strike and a slope pattern within the sand body confirming this strike. (See attachment 9)

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The zone at 11,066' to 11,909' has a good slope pattern also showing an east-west strike. (See attachment 12)

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The zone at 11,161' to 11,195' has a good transport to the south and a slope pattern also to the south. There is also a south drape pattern above the sand. These indicate an east-west strike. (See attachment 14)

The most interesting point of the dipmeter study is the sands in the lower section of the well that trend east-west appear to contain hydrocarbons and those trending north-south do not. The regional dip is downdip to the north and traps do not seem to be formed along this strike, possibly due to southern communication.

Exploration for the indicated hydrocarbon sands in the interval 10,900' to 11,200' should be favorable along the east-west strike.

This dipmeter information should be helpful in the development of this area. If there are any questions, please call us.

Sincerely yours,

SCHLUMBERGER WELL SERVICES

L. M. "Mike" Grace
Sales Engineer--Dipmeter

LMG:cm

#7 Copies Dallas well file

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

December 3, 1974

United States Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached are three copies of Lessee's Monthly Report of Operations on Wells for Exxon #1 Wilkin Ridge Unit for the month of November, 1974.

Yours very truly,

Gene D. Thompson

RS:sjg

Attachments

cc: Dorsey Hawkins
Pacific Transmission Supply
Chorney Oil Company
Gulf Oil Corporation
Placid Oil Company
Skyline Oil Company
Mr. Gilman A. Hill
Utah Division of Oil & Gas Conservation

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Wilkin Ridge Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 19 74, Exxon #1 Wilkin Ridge Unit (Wildcat)

Agent's address P. O. Box 120 *Company* Exxon Corporation

Denver, Colorado 80201 *Signed* [signature]

Phone (303) 761-6470 *Agent's title* Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
			11/1/74-11/30/74 Drilling 10740' to 12390' (6:00 a.m. report).							
			11/1/74-11/2/74 Core No. 2: 10740'-10797'. Cut 57', recovered 51'.							
			11/6/74-11/7/74 Core No. 3: 11185'-11234'. Cut 49', recovered 45'.							
			11/10/74-11/11/74 Ran DIL, Sonic-GR, and Dipmeter logs from 11509' to 3015'. Ran Density-CNL from 11509' to 4500'.							
			11/19/74 Test choke manifold and rams to 300 psi and 3000 psi, O.K. Test Hydril to 300 psi and 2000 psi, O.K.							

CONFIDENTIAL

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

GPO 837-082

1-Dallas
1-well file

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980' FNL, 2055'FWL

5. LEASE DESIGNATION AND SERIAL NO.
Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Wilkin Ridge Unit

8. FARM OR LEASE NAME

9. WELL NO.
Exxon #1 Wilkin Ridge Unit

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29-T10S-R17E SLM

14. PERMIT NO.
API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6192 ROB

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	X	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

With this notice we request your permission to increase the permit depth on this well to 12,500' or 200'± into the Mancos Shale, whichever occurs first. This request does not constitute a change of objective formation.

Mr. E. W. Guynn, Acting District Engineer, USGS, Salt Lake City, gave verbal approval for this November 22, 1974.

CONFIDENTIAL

18. I hereby certify that the foregoing is true and correct

SIGNED John F. Grouse TITLE Senior Engineer DATE November 25, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

1-Dallas
1-Well file
PRELIMINARY
COPY

9106

CL-811-1

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

GDT	Western Division Exploration Dept.	RS
ARC		JRS
WAG	NOV 22 1974	
EGH		JFH
	Drilling Section	MG
HANDLE	LETS DISCUSS	FILE

Page No. 1

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File HP-2-4776
Well NO. 1 WILKIN RIDGE UNIT Core Type DIAMOND 4" Date Report 10-28-74
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG:EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

Lithological Abbreviations

SAND-SD, SHALE-SH, LIME-LM, DOLOMITE-DOL, CHERT-CH, GYPSUM-GYP, ANHYDRITE-ANHY, CONGLOMERATE-CONG, FOSSILIFEROUS-FOSS, SANDY-SDY, SHALY-SHY, LIMY-LMY, FINE-FN, MEDIUM-MED, COARSE-CSE, CRYSTALLINE-XLN, GRAIN-GRN, GRANULAR-GRNL, BROWN-BRN, GRAY-GY, VUGGY-VGY, FRACTURED-FRAC, LAMINATION-LAM, STYLOLITIC-STY, SLIGHTLY-SL/, VERY-V/, WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
		(K_A)	*			
1	10282-83	0.09	2.7	9.2	55.3	Sd Drk Gy V/Fn Grn V/Silty Clay
2	10288-89	0.10	2.4	9.3	64.9	Sd Drk Gy V/Fn Grn V/Silty Clay
3	89-90	0.92	5.5	9.7	31.2	Sd Gy V/Fn Grn Silty Clay
4	90-91	0.14	5.5	11.4	35.7	Sd Gy V/Fn Grn Silty Clay
5	91-92	0.14	5.5	8.5	20.5	Sd Gy V/Fn Grn Silty Clay
6	92-93	0.11	6.9	10.7	18.3	Sd Gy V/Fn Grn Silty Clay
7	93-94	0.12	5.7	8.2	13.1	Sd Gy V/Fn Grn Silty Clay
8	94-95	0.13	5.1	10.9	21.8	Sd Gy V/Fn Grn Silty Clay
9	95-96	0.23	6.3	9.2	23.8	Sd Gy V/Fn Grn Silty Clay
10	96-97	1.6	6.2	9.5	21.8	Sd Gy V/Fn Grn Silty Clay
11	97-98	1.3	6.8	11.6	23.2	Sd Gy V/Fn Grn Silty Clay
12	98-99	0.65	6.7	8.9	20.4	Sd Gy V/Fn Grn Silty Clay
13	10299-00	1.3	4.8	10.3	23.6	Sd Gy V/Fn Grn Silty Clay
14	10301-02	0.11	5.9	3.6	61.5	Sd Gy V/Fn Grn Silty Clay
15	02-03	0.08	5.5	4.2	54.2	Sd Gy V/Fn Grn Silty Clay
16	10744.4	0.07	6.9	2.0	72.1	Sd Drk Gy V/Fn Grn Silty Clay
17	45.1	0.06	6.8	0.0	40.0	Sd Drk Gy V/Fn Grn Silty Clay
18	46.9	0.06	6.3	0.0	44.4	Sd Drk Gy V/Fn Grn Silty Clay
19	47.4	0.06	6.5	0.0	44.1	Sd Drk Gy V/Fn Grn Silty Clay
20	48.3	0.05	5.7	0.0	40.4	Sd Drk Gy V/Fn Grn Silty Clay
21	49.5	0.05	5.0	0.0	51.5	Sd Drk Gy V/Fn Grn Silty Clay
22	50.4	0.01	1.4	0.0	40.3	Sd Drk Gy V/Fn Grn Silty Clay
23	51.2	0.03	2.3	0.0	47.4	Sd Drk Gy V/Fn Grn Silty Clay
24	10754.4	0.07	6.5	0.0	44.4	Sd Drk Gy V/Fn Grn Silty Clay
25	55.3	0.06	4.0	0.0	63.4	Sd Drk Gy V/Fn Grn Silty Clay
26	56.5	0.28	5.1	0.0	63.8	Sd Drk Gy V/Fn Grn Silty Clay
27	57.3	0.14	7.0	0.0	48.6	Sd Drk Gy V/Fn Grn Silty Clay
28	58.1	0.11	7.0	0.0	35.4	Sd Drk Gy V/Fn Grn Silty Clay
29	59.7	0.08	7.3	0.0	50.2	Sd Drk Gy V/Fn Grn Silty Clay
30	60.2	0.07	6.8	0.0	36.3	Sd Drk Gy V/Fn Grn Silty Clay
31	61.2	0.07	6.4	0.0	65.1	Sd Drk Gy V/Fn Grn Silty Clay
32	62.8	0.06	6.4	0.0	37.2	Sd Drk Gy V/Fn Grn Silty Clay
33	63.5	0.05	5.9	0.0	55.7	Sd Drk Gy V/Fn Grn Silty Clay
34	64.1	0.04	6.1	0.0	51.1	Sd Drk Gy V/Fn Grn Silty Clay
35	65.4	0.05	7.9	0.0	47.8	Sd Drk Gy V/Fn Grn Silty Clay

* BOYLE'S LAW POROSITY - HUMIDITY CONTROLLED OVEN

These analyses, opinons or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

PRELIMINARY

CL-911-1

9106

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. Formation MESA VERDE File RP-2-4776
Well NO. 1 WILKIN RIDGE UNIT Core Type DIAMOND 4" Date Report 11-2-74
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts RG:EJ
County DUCHESNE State UTAH Elev. 6193'KB Location SEC 29-T10S-R17E

Lithological Abbreviations

SAND-SD, SHALE-SH, LIME-LM, DOLOMITE-DOL, CHERT-CH, GYPSUM-GYP, ANHYDRITE-ANHY, CONGLOMERATE-CONG, FOSSILIFEROUS-FOSS, SANDY-SDY, SHALY-SHY, LIMY-LMY, FINE-FN, MEDIUM-MED, COARSE-CSE, CRYSTALLINE-XLN, GRAIN-GRN, GRANULAR-GRNL, BROWN-BRN, GRAY-GY, VUGGY-VGY, FRACTURED-FRAC, LAMINATION-LAM, STYLOLITIC-STY, SLIGHTLY-SL/, VERY-V/, WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS (K_A)	POROSITY PER CENT *	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
36	10766.2	0.04	7.2	0.0	59.2	Sd Drk Gy V/Fn Grn Silty Clay
37	67.3	0.03	5.5	0.0	54.8	Sd Drk Gy V/Fn Grn V/Silty Clay
38	68.4	0.04	6.2	0.0	55.9	Sd Drk Gy V/Fn Grn V/Silty Clay
39	69.2	0.04	6.2	0.0	63.4	Sd Drk Gy V/Fn Grn V/Silty Clay
40	70.2	0.02	5.5	0.0	69.8	Sd Drk Gy V/Fn Grn V/Silty Clay
41	71.4	0.04	5.9	0.0	45.8	Sd Drk Gy V/Fn Grn Silty Clay
42	72.7	0.05	6.7	0.0	56.2	Sd Drk Gy V/Fn Grn Silty Clay
43	73.4	0.03	4.5	0.0	38.5	Sd Drk Gy V/Fn Grn Silty Clay
44	74.2	0.05	6.4	0.0	34.6	Sd Drk Gy V/Fn Grn Silty Clay
45	75.4	0.05	7.1	0.0	53.1	Sd Drk Gy V/Fn Grn Silty Clay
46	76.8	0.07	7.1	0.0	51.3	Sd Drk Gy V/Fn Grn Silty Clay
47	77.5	0.05	6.8	0.0	32.9	Sd Drk Gy V/Fn Grn Silty Clay
48	78.3	0.05	6.6	0.0	47.5	Sd Drk Gy V/Fn Grn Silty Clay
49	79.3	0.05	6.5	0.0	42.3	Sd Drk Gy V/Fn Grn Silty Clay
50	80.4	0.08	6.9	0.0	42.6	Sd Drk Gy V/Fn Grn Silty Clay
51	81.4	0.03	4.9	0.0	53.0	Sd Drk Gy V/Fn Grn V/Silty Clay
52	82.1	0.10	6.8	0.0	50.2	Sd Drk Gy V/Fn Grn Silty Clay
53	83.7	0.05	7.0	1.2	39.0	Sd Drk Gy V/Fn Grn Silty Clay
54	84.7	0.06	7.1	0.0	59.6	Sd Drk Gy V/Fn Grn Silty Clay
55	85.2	0.04	6.3	0.0	45.0	Sd Drk Gy V/Fn Grn Silty Clay
56	86.4	0.05	6.2	0.0	49.5	Sd Drk Gy V/Fn Grn Silty Clay
57	87.1	0.08	7.7	0.0	66.5	Sd Drk Gy V/Fn Grn Silty Clay
58	88.7	0.15	8.0	0.0	34.7	Sd Drk Gy V/Fn Grn Silty Clay
59	89.4	0.05	7.1	0.0	47.8	Sd Drk Gy V/Fn Grn Silty Clay
60	90.2	0.06	7.3	0.0	41.1	Sd Drk Gy V/Fn Grn Silty Clay
61	91.3	0.07	6.9	0.0	38.0	Sd Drk Gy V/Fn Grn Silty Clay
62	92.8	0.07	6.6	1.4	35.7	Sd Drk Gy V/Fn Grn Silty Clay
63	93.4	0.07	7.3	0.0	41.3	Sd Drk Gy V/Fn Grn Silty Clay
64	94.3	0.09	6.9	1.3	40.6	Sd Drk Gy V/Fn Grn Silty Clay
65	95.4	0.06	6.7	0.0	47.2	Sd Drk Gy V/Fn Grn Silty Clay
66	96.3	0.04	3.3	0.0	51.2	Sd Drk Gy V/Fn Grn Silty Clay Carb
67	97.8	0.03	5.7	0.0	58.7	Sd Drk Gy V/Fn Grn Silty Clay
68	98.4	0.04	6.1	1.9	53.5	Sd Drk Gy V/Fn Grn Silty Clay
69	99.4	0.03	5.5	0.0	62.0	Sd Drk Gy V/Fn Grn Silty Clay
70	10800.6	0.03	4.7	0.0	59.6	Sd Drk Gy V/Fn Grn Silty Clay

* BOYLE'S LAW POROSITY - HUMIDITY CONTROLLED OVEN

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CL-311-1

PRELIMINARY COPY

9106

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company EXXON COMPANY, U.S.A. | Formation MESA VERDE | File RP-2-4776
Well NO. 1 WILKIN RIDGE UNIT | Core Type DIAMOND 4" | Date Report 11-2-74
Field WILDCAT | Drilling Fluid WATER BASE MUD | Analysts RG:EJ
County DUCHESNE State UTAH | Elev. 6193'KB | Location SEC 29-T10S-R17E

Lithological Abbreviations

SAND-SD, SHALE-SH, LIME-LM, DOLOMITE-DOL, CHERT-CH, GYPSUM-GYP, ANHYDRITE-ANHY, CONGLOMERATE-CONG, FOSSILIFEROUS-FOSS, SANDY-SDY, SHALY-SHY, LIMY-LMY, FINE-FN, MEDIUM-MED, COARSE-CSE, CRYSTALLINE-XLN, GRAIN-GRN, GRANULAR-GRNL, BROWN-BRN, GRAY-GY, VUGGY-VGY, FRACTURED-FRAC, LAMINATION-LAM, STYLOLITIC-STY, SLIGHTLY-SL/, VERY-V/, WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS (K_A)	POROSITY PER CENT *	RESIDUAL SATURATION PER CENT PORE: OIL	RESIDUAL SATURATION PER CENT PORE: TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
71	11197.5	0.02	4.9	27.6	31.5	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
72	98.4	0.07	4.8	15.9	13.6	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
73	11213.8	0.01	2.0	5.7	68.6	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
74	14.6	0.02	1.6	9.2	55.2	Sd Drk Gy V/Fn Grn V/Silty Clay
75	15.7	0.01	1.5	0.0	57.4	Sd Drk Gy V/Fn Grn V/Silty Shy Clay
76	16.3	0.01	1.0	10.1	60.6	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
77	17.3	0.01	1.0	0.0	76.3	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
78	11222.4	0.02	1.5	0.0	58.0	Sd Drk Gy V/Fn Grn V/Silty V/Shy Clay
79	23.7	0.02	2.7	4.6	64.0	Sd Drk Gy V/Fn Grn V/Silty Clay
80	24.7	0.02	2.4	7.7	77.4	Sd Drk Gy V/Fn Grn V/Silty Clay

* BOYLE'S LAW POROSITY - HUMIDITY CONTROLLED OVEN

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1- Dallas
1- Well File

EXXON #1 WILKIN RIDGE UNIT
PRELIMINARY REPORT, CORE # 3
NOVEMBER 7, 1974

DEPTH	PERM	HUM. CONTR. POROSITY	SATURATIONS OIL	SATURATIONS WATER
10744.4	0.07	6.9	2.0	72.1
10745.1	0.06	6.8		40.0
10746.9	0.06	6.3		44.4
10747.4	0.06	6.5		44.1
10748.3	0.05	5.7		40.4
10749.5	0.05	5.0		51.5
10750.4	0.01	1.4		40.3
10751.2	0.03	2.3		47.4
10754.4	0.07	6.5		44.1
10755.3	0.06	4.0		63.4
10756.5	0.28	5.1		63.8
10757.3	0.14	7.0		48.6
10758.1	0.11	7.0		35.4
10759.7	0.08	7.3		50.2
10760.2	0.07	6.8		36.3
10761.2	0.07	6.4		65.1
10762.8	0.06	6.4		37.2
10763.5	0.05	5.9		55.7
10764.1	0.04	6.1		51.1
10765.4	0.05	7.9		47.8
10766.2	0.04	7.2		59.2
10767.3	0.03	5.5		54.8
10768.4	0.04	6.2		55.9
10769.2	0.04	6.2		63.4
10770.2	0.02	5.5		69.8
10771.4	0.04	5.9		45.8
10772.7	0.05	6.7		56.2
10773.4	0.03	4.5		38.5
10774.2	0.05	6.4		34.6
10775.4	0.05	7.1		53.1
10776.8	0.07	7.1		51.3
10777.5	0.05	6.8		32.9
10778.3	0.05	6.6		47.5
10779.3	0.05	6.5		42.3
10780.4	0.08	6.9		42.6
10781.4	0.03	4.9		53.0
10782.1	0.10	6.8		50.2
10783.7	0.05	7.0	1.2	39.0
10784.7	0.06	7.1		59.6
10785.2	0.04	6.3		45.0
10786.4	0.05	6.2		49.5
10787.1	0.08	7.7		66.5
10788.7	0.15	8.0		37.4
10789.4	0.05	7.1		47.8
10790.2	0.06	7.3		41.1
10791.3	0.07	6.9		38.0
10792.8	0.07	6.6	1.4	35.7
10793.4	0.07	7.3		41.3
10794.3	0.09	6.9	1.3	40.6
10795.4	0.06	6.2		47.2
10796.3	0.04	3.3		51.2
10797.8	0.03	5.7		58.7
10798.4	0.04	6.1	1.9	53.5
10799.4	0.03	5.5		62.0
10800.6	0.03	4.7		59.6
Avg.	.05	6.1		49.1

DAL 11/8/74

1 Copy Dallas
1 Copy Well file

HP

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

November 1, 1974

United States Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached are three copies of Lessee's Monthly Report of Operations on Wells for Exxon #1 Wilkin Ridge Unit for the month of October, 1974.

Yours very truly,

Original Signed GENE D. THOMPSON

Gene D. Thompson

RS:sjg

Attachments

cc: Dorsey Hawkins
Pacific Transmission Supply
Chorney Oil Company
Gulf Oil Corporation
Placid Oil Company
Skyline Oil Company
Mr. Gilman A. Hill
Utah Division of Oil & Gas Conservation

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Duchesne ~~Field~~ Wilkin Ridge Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1974, Exxon #1 Wilkin Ridge Unit (Wildcat)

Agent's address P. O. Box 120 *Company* Exxon Corporation
Denver, Colorado 80201 *Signed* W. A. Green
Phone 303-761-6470 *Agent's title* Acting Drilling Manager

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1 Wilkin Ridge Unit							
			10/1/74-10/31/74 Drilling 6025' to 10,740' (6:00 a.m. report).							
			10/11/74, 10/19/74, 10/28/74 BOP Tests: Rams and choke manifold tested to 300 psi and 3000 psi. Hydril tested to 300 psi and 2000 psi.							
			10/26/74 Cut Core #1 from 10,273' to 10,312' (39' cut, 37' recovered).							
			10/27/74 DST #1 from 10,259' to 10,312'. Strong blow, no gas to surface, recovered 90' of gas cut mud. IHP 4971 psi, 5 min. IFP 143-112 psi, 30 min. ISIP 275 psi, 120 min. FFP 138-143 psi, 60 min. FSIP 244 psi, FHP 4951 psi. Sample Chamber contained 1400 cc's mud, pressure too small to measure.					

CONFIDENTIAL

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-9 U. S. GOVERNMENT PRINTING OFFICE

GPO 837-082

PRELIMINARY **FIELD DATA CORE ANALYSIS REPORT**

DATE November 2, 1974

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PERCENT	RESIDUAL LIQUID SATURATION				REMARKS
				OIL		TOTAL WATER % PORE		
				% VOL	% PORE			
	10744-45		5.0		2.0	72.1		
	49-50		3.2		0.0	51.5		
	51-52		3.0		0.0	47.4		
	57-58		7.8		0.0	48.6		
	61-62		5.6		0.0	65.1		
	63-64		5.8		0.0	55.7		
	66-67		5.8		0.0	59.2		
	69-70		5.7		0.0	63.4		
	72-73		7.2		0.0	56.2		
	75-76		8.3		0.0	53.1		
	78-79		9.0		0.0	47.5		
	81-82		5.7		0.0	53.0		
	84-85		6.7		0.0	59.6		
	87-88		6.4		0.0	66.5		
	90-91		8.8		0.0	47.8		
	93-94		7.6		0.0	41.3		
	96-97		5.6		0.0	51.2		
	99-00		6.2		0.0	62.0		
		Avg.	6.0			55.6		

COMPANY Exxon Company, U.S.A. WELL #1 Wilkin Ridge Unit

COUNTY Duchesne STATE Utah FIELD W/C ELEVATION 6193 KB

LOCATION 1980 FNL & 2055 FWL 29-10S-17E

CL-572

File Memo

Re: Exxon #1 Wilkin Ridge Unit
Duchesne County, Utah

DST No. 1 10,259-10,312'
Mesa Verde Formation
Dual Packer set from 10,250-59'
Open 5 minutes, good blow
Shut In 30 minutes
Open 120 minutes, good blow decreasing to very weak
Shut In 60 minutes.

Recovered 90' gas cut mud. There was no gas to the surface. The down hole sampler contained 1400 cc mud.

Pressures:

IHP	4971 psi
IFP	143-112 psi
ISIP	275 psi
FFP	138-143 psi
FSIP	244 psi
FHP	4951 psi

Temperature - mercury separated in all three thermometers.

JRS:sjg

October 28, 1974

cc: Gulf Oil, Placid, Pacific Transmission Supply,
Chorney Oil, Skyline Oil, Mr. Gilman A. Hill.

CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

WELL Exxon #1 Wilkin Ridge Unit

NO. 43-013-30327

GEOLOGIST J. W. Boettcher

CORE NO 1 INTERVAL (M.D.) 10273-312 INTERVAL (I.E.S.) _____ RECOVERY 37' FORMATION Mesa Verde

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY : List-type, color, hardness, grain size, angularity, sorting & accessories.	PERMEABILITY	POROSITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROB. PROD.
		SHALE, black abundant carbonized, plant									
10275		remains, (stems and leaves) blocky to slightly									
		fissile, carbonaceous.									●
10280											
		SAND, gr. vf-f, silty, Abd. Crossbedded	Poor	Poor	Slight	None	None	None	None	Pale Yellow even	
10285		laminae, carbonaceous claystone, mostly Qz.	Poor	Poor	Slight	None	None			"	●
		grs., few coal and sh. grs., siliceous cement,	Poor	Poor	Slight	None	None			"	
		hard, poor sorting, pockets calcareous.	Poor	Poor	Slight	None	None			"	
10290		SAND, lite g to gr., f-gr., some med. gr., fw.	Poor	Fair	Good	?	None	Hev. to Slw. Strm	Bright	Gold uneven	Yes
		sl., sil. cement, slightly calc. vis porosity	Poor	Fair	Good	?	None	"	Bright	"	Yes
		quartzose some coaly and shale grs.	Poor	Fair	Good	?	None	"	Bright	"	Yes

CONVENTIONAL CORE DESCRIPTION FORM
EXXON COMPANY U.S.A. WESTERN DIVISION

WELL Exxon #1 Wilkin Ridge Unit (Continued)

NO.

GEOLOGIST J. W. Boettcher

CORE NO 1 INTERVAL (M.D.) 10273-312 INTERVAL (I.E.S.) RECOVERY 37'

FORMATION Mesa Verde

DEPTH	LITHOLOGY SYMBOL	LITHOLOGY : List-type, color, hardness, grain size, angularity, sorting & accessories.	PERME-ABILITY	POROSITY	ODOR	STAIN	SAMPLE FLUORES.	WET CUT	WET CUT FLUORES.	DRY CUT FLUORES.	PROB. PROD.
10295											
											●
10300											
		SHALE, crystn., blk., vy carb., carbonized lam:									
		some plant remains, blocky.									
		SAND, vf-fg-mg, silty, siliceous, abd. carb.,	Poor	Poor	Slight	None	None	NOne	None	Pale Yellow	
		sandy, silic., hard, occ. carbonized plant frag.									
10305											
		SHALE, crystn., blk., carbonaceous carbonized									●
		plant remains .									
10310											

CORE

FIELD DATA CORE ANALYSIS REPORT

DATE October 30, 1974

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PERCENT	RESIDUAL LIQUID SATURATION				REMARKS
				OIL		TOTAL WATER % PORE		
				% VOL	% PORE			
1	10282-3	0.09	2.7		9.2	55.3		
2	88-89	0.10	2.4		9.3	64.9		
3	89-90	0.92	5.5		9.7	31.2		
4	90-91	0.14	5.5		11.4	35.7		
5	91-92	0.14	5.5		8.5	20.5		
6	92-93	0.11	6.9		10.7	18.3		
7	93-94	0.12	5.7		8.2	13.1		
8	94-95	0.13	5.1		10.9	21.8		
9	95-96	0.23	6.3		9.2	23.8		
10	96-97	1.6	6.2		9.5	21.8		
11	97-98	0.13	6.8		11.6	23.2		
12	98-99	0.65	6.7		8.9	20.4		
13	10299-3	1.3	4.8		10.3	23.6		
14	301-02	0.11	5.9		3.6	61.5		
15	02-03	0.08	5.5		4.2	54.2		

COMPANY Exxon Oil Company WELL #1 Wilkin Ridge Unit

COUNTY Duchesene STATE Utah FIELD ELEVATION

LOCATION

CI-572

HP file

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

October 4, 1974

U. S. Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Attached are three copies of Lessee's Monthly Report of Operations on Wells for Exxon #1 Wilkin Ridge Unit for the month of September, 1974.

Yours very truly,

Gene D. Thompson

RS:sjg
Attachments

cc: Dorsey Hawkins
Pacific Transmission Supply
Chorney Oil Company
Gulf Oil Corporation
Placid Oil Company
Skyline Oil Company
Mr. Gilman A. Hill

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U-7362
UNIT Wilkin Ridge

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Duchesne *Field* Wilkin Ridge Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, *19* 74, Exxon #1 Wilkin Ridge Unit (Wildcat)

Agent's address P. O. Box 120 *Company* Exxon Corporation
Denver, Colorado 80201 *Signed*
Phone 303-761-6470 *Agent's title*

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE/NW 29	10S	17E	Exxon #1	Wilkin Ridge Unit						8/22/74 Set 13-3/8" conductor @ 64' KB w/rathole machine & cmt. to surface. 8/23-8/31/74 Move in & Rig Up. Brinkerhoff #26. Rig up Hydril & Diverter on 13-3/8". 9/1/74 Spud @ 7:45 p.m. 9/13/74 Drilled to 3023. Ran DIL & FDC logs. Set 8-5/8" surface csg. @ 3015' KB. Cmt. to surface w/ 1000 Sks Cl.G+8% Gel 150 Sks Cl.G neat 300 Sks Cl.G+8%Gel+2% $CaCl_2$ 250 Sks Cl.G+2%$CaCl_2$ 9/20/74 Test BOP's 300 & 3000 psi Test casing 1500 psi 9/30/74 Drlg. @ 6025'. 6:00 a.m

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-9 U. S. GOVERNMENT PRINTING OFFICE

GPO 837-082

WELL _____

_____

_____

The following information and reports pertaining to the above captioned well have been incorporated into our file and copies of each have been forwarded to the Dallas office and other interested parties on the date indicated.

	Well File	Dallas				
A. Location Plat						
B. Application for Permit to Drill 1. State (Unapproved)**						
(Approved)						
2. Federal (Form 9-331-C)* (Unapproved)**						
(Approved)	9/23/74	9/23/74				
C. Geological Prognosis	9/23/74	9/23/74				
D. Electrical Logs 1. Field Prints	9/20/74	9/23/74				
2. Final Prints						
Preliminary E. Core Analysis Reports	11/25/74	[illegible]				
F. Drill Stem Test Reports	[illegible]	[illegible]				
G. Geological Well Completion Report						
H. Other Geological Data (specify) 1. AFE	9/23/74	9/23/74				
2. [illegible]	12/6/74 [illegible]	12/6/74 [illegible]				
I. Abandonment Reports 1. State Abandonment Reports (plugging and log of well) (Unapproved)**						
(Approved)						
2. Federal* a. Sundry Notices (Form 9-331) 1. Unapproved**	[illegible] 9/23/74	[illegible] 9/23/74				
2. Approved	12/12/74	12/12/74				
b. Well Completion Report and Log (Form 9-330)						

*Applicable on wells drilled on U.S.A. leases.

**Applicable only on Placid Operated Wells.

Well file

WESTERN EXPLORATION DIVISION
EXXON COMPANY, U.S.A.
TRANSMITTAL FORM

To Placid Oil Co. From J. R. Switzer

Well #1 Wilkin Ridge Unit Date 9-18-74

Transmitted herewith are the following for the subject well:

Quantity	Item	Interval	Remarks
2	Dual Induction Log		Run 1, 9-12-74
	Induction Electric Log		
	Sonic Log w/S.P.		
	Sonic Log w/G.R.		
2	Density Log w/G.R.		Run 1, 9-12-74
	Sidewall Neutron		
	Compensated Neutron		
	Continuous Dipmeter		
	Continuous Dipmeter Plot		
	Cont. Dipmeter Printout		
	Proximity-Microlog		
	Perforating Depth Control		
	Cement Bond Log		
	Cased Hole Neutron		
	Temperature Log		
	Synergetic Logs		
	Mudlogs		
	Sidewall Cores		
	Sidewall Core Description		
	Sidewall Core Analysis		
	Conventional Cores		
	Core Description		
	Core Analysis		
	Unwashed Cuttings		
	Washed & Dried Samples		
	Sample Description		
	Canned Cuttings		

Receipt Acknowledged _____ Date _____

Return signed receipt to: Exxon Company, U.S.A.
P. O. Box 120
Denver, CO 80201
Attn: Mr. John R. Switzer

EXXON COMPANY, U.S.A.
POST OFFICE BOX 120 · DENVER, COLORADO 80201

EXPLORATION
WESTERN DIVISION

GENE D. THOMPSON
DRILLING MANAGER

September 20, 1974

Placid Oil Company
1700 Broadway
Denver, Colorado 80202

Attention: Mr. H. E. Peterson

Re: Exxon #1 Wilkin Ridge Unit
Duchesne County, Utah

Gentlemen:

The following data from the above-captioned well is attached for your information:

1. Authority for Expenditure
2. Application for Permit to Drill w/plat
3. Sundry Notice dated September 6, 1974
4. Drilling and Evaluation Prognosis

Please verify receipt of this data by signing and returning one copy of this letter to us at the above address.

Very truly yours,

Gene D. Thompson

JRS:sjg
Attachments

Receipt Acknowledged_____

Date_____

EXXON WESTERN EXPLORATION DIVISION
DRILLING AND EVALUATION PROGNOSIS

WELL NAME: Exxon #1 Wilkin Ridge Unit

LOCATION: 1980' FNL & 2055' FWL
Section 29-T10S-R17E
Duchesne County, Utah

OBJECTIVE: Mesa Verde

DEPTH: 11,500'

CASING PROGRAM: 13-3/8" at 80'
8-5/8" at 3000'
5½" at TD

MUD PROGRAM: Surface to 3000' - 8.5 to 9.0 ppg
3000' to 8500' - 8.8 to 9.0 ppg
8500' to TD - 9.0 to 11.0 ppg

LOGGING PROGRAM: Surf. to 3000' - DIL & Density
3000' to TD - DIL, Density, Sonic, Dipmeter, Sidewall Cores

CORING AND TESTING: Up to 200' of cores and 3-4 DST's in the Wasatch and Mesa Verde

CUTTING SAMPLES
AND MUDLOGGING: A mudlog unit will be on from 2000' to TD. 30' samples will be caught above 4500' and 10' below.

JRS:mg
9-20-74

HORITY FOR EXPENDITURE — DRILLING
n Company, U.S.A. (a division of Exxon Corporation)

RICT		
estern Exploration Division	Nine Mile Canyon	August 2, 1974

To drill the Exxon #1 Wilkin Ridge Unit wildcat to test the Mesa Verde formation.

Location: 1,980' FNL, 2,055' FWL, Section 29, T10S, R17E, Duchesne County, Utah.

Dry		Completed		
Cost	Days	Cost	Days	Depth
$700,000	75	$1,200,000	85	11,500

CHARGE - LEASE OR FACILITY	JA	LC	F	B	DV	DST	AFE (UNIT)	W-T	MEMO L-C
	7	441		X	RK	753	17	800	
AME		551							
EARANCE DISTRIBUTION									

DRILLING DETAIL	ESTIMATED COST
F-425 — SITE COST	20,000
F-426 — TRANSPORTATION	73,000
F-427 — DRILLING OPERATIONS — OTHER	155,000
F-428 — DRILLING RIG	229,000
F-429 — SUPERVISION & OVERHEAD	45,000
F-430 — DRILLING FLUID CONTROL	35,000
F-431 — FORMATION EVALUATION	120,000
F-432 — PRIMARY CASING CEMENTING	20,000
DRILLING SUB TOTAL →	697,000
COMPLETION DETAIL	
F-435 — COMPLETION RIG OPERATIONS	35,000
F-436 — PERFORATING	20,000
F-437 — SQUEEZE CEMENTING	
F-438 — FORMATION FRACTURING	200,000
F-439 — FORMATION STIMULATION	
F-440 — SAND CONSOLIDATION	
F-441 — OTHER COMPLETION COSTS	38,000
F-442 — COMPLETION FLUID CONTROL	8,000
F-443 — FORMATION EVALUATION	27,000
F-445 — TRANSPORTATION	35,000
F-446 — WELL SUPPLIES	25,000
F-448 — SUPERVISION & OVERHEAD	12,000
COMPLETION INTANGIBLE SUB TOTAL →	400,000
F-464 — TANGIBLE WELL EQUIPMENT DETAILED	
F-465 — TANGIBLE WELL EQUIPMENT — CASING & TUBING	79,000
F-467 — TANGIBLE WELL EQUIPMENT UNDETAILED	24,000
COMPLETION TANGIBLE SUB TOTAL →	103,000
COMPLETION SUB TOTAL →	503,000
TOTAL DRILLING AND COMPLETION →	1,200,000

*COMPLETE ON OUTPOST, WILDCAT, AND FIELD WILDCAT DRILLING WELLS.

JOINT INTEREST INFORMATION

EXXON'S INT. 70.6578

NONOPERATOR APPROVAL REQUIRED: YES [X] NO [ ]

NONOPERATOR APPROVAL RECEIVED: YES [ ] NO [X]

NONOPERATOR APPROVAL

COMPANY NAME _____

APPROVED _____ DATE _____

BUDGET APPLICATION

	EXXON'S PART	GROSS
TOTAL CURRENT EST. EXPENDITURES, CURRENT YEAR	$ 847,900	$ 1,200,000
*DRY HOLE ESTIMATE	$ 847,900	$ 1,200,000
BUDGET: (DATE)	$ 494,600	$ 700,000
	$	$

APPROVAL RECOMMENDED

INITIAL FOR	ENG.	GEOL.	OPER.	ACCTG.
DIST.				
DIV.				

PREPARED BY EGH/DMV

APPROVED _____ DISTRICT MGR./SUPT. DATE _____

APPROVED W. A. Green DIV. OPERATIONS MGR. DATE 8-6-74

APPROVED P. F. Dalton DIV. MANAGER DATE 8-7-74

APPROVED _____ HQ. DEPT./OPERATIONS MGR. DATE _____

AFE COMPLETION DATE _____ REPORT NO. _____

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Western Exploration Division

5. LEASE DESIGNATION AND SERIAL NO.	Serial No. U-7362
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	--
7. UNIT AGREEMENT NAME	Wilkin Ridge Unit
8. FARM OR LEASE NAME	--
9. WELL NO.	Exxon #1 Wilkin Ridge Unit
10. FIELD AND POOL, OR WILDCAT	Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec. 29, T10S, R17E
12. COUNTY OR PARISH	Duchesne
13. STATE	Utah

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER Wildcat — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FNL, 2055' FWL, Sec. 29, T10S, R17E, Duchesne County, Utah
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 20 miles South of Myton, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	1980 Ft.	16. NO. OF ACRES IN LEASE: 640 Acres	17. NO. OF ACRES ASSIGNED TO THIS WELL:
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	Not Applicable	19. PROPOSED DEPTH: 12,000'	20. ROTARY OR CABLE TOOLS: Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6172' (Ungraded Ground)			22. APPROX. DATE WORK WILL START*: July 10, 1974

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Min. of 17½"	13-3/8"	48#	75' GL	Fill Annulus to Surface
11"	8-5/8"	32 & 24#	2000	Circulate to Surface
7-7/8"	5½"	17#	Approx. 11,500	Sufficient to Cover all pays.

Mud Program
Surface hole: Water-base mud 8.6-9.0 lb./gal.
Production hole: Water-base mud 8.6-12.0 lb./gal.
Mud Weight to be adjusted for conditions and to maintain safe drilling operations

Evaluation Program: Mud-Log 4500 feet to total depth.
Wireline Logs at total depth.

Blowout Preventer Program; 3000-psi working pressure BOPs and choke manifold.
On 8-5/8" Surface Casing: Two ram-type BOPs, one bag-type BOP, and choke manifold.

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [signature] TITLE Dist Opns Mgr DATE 7-2-74

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

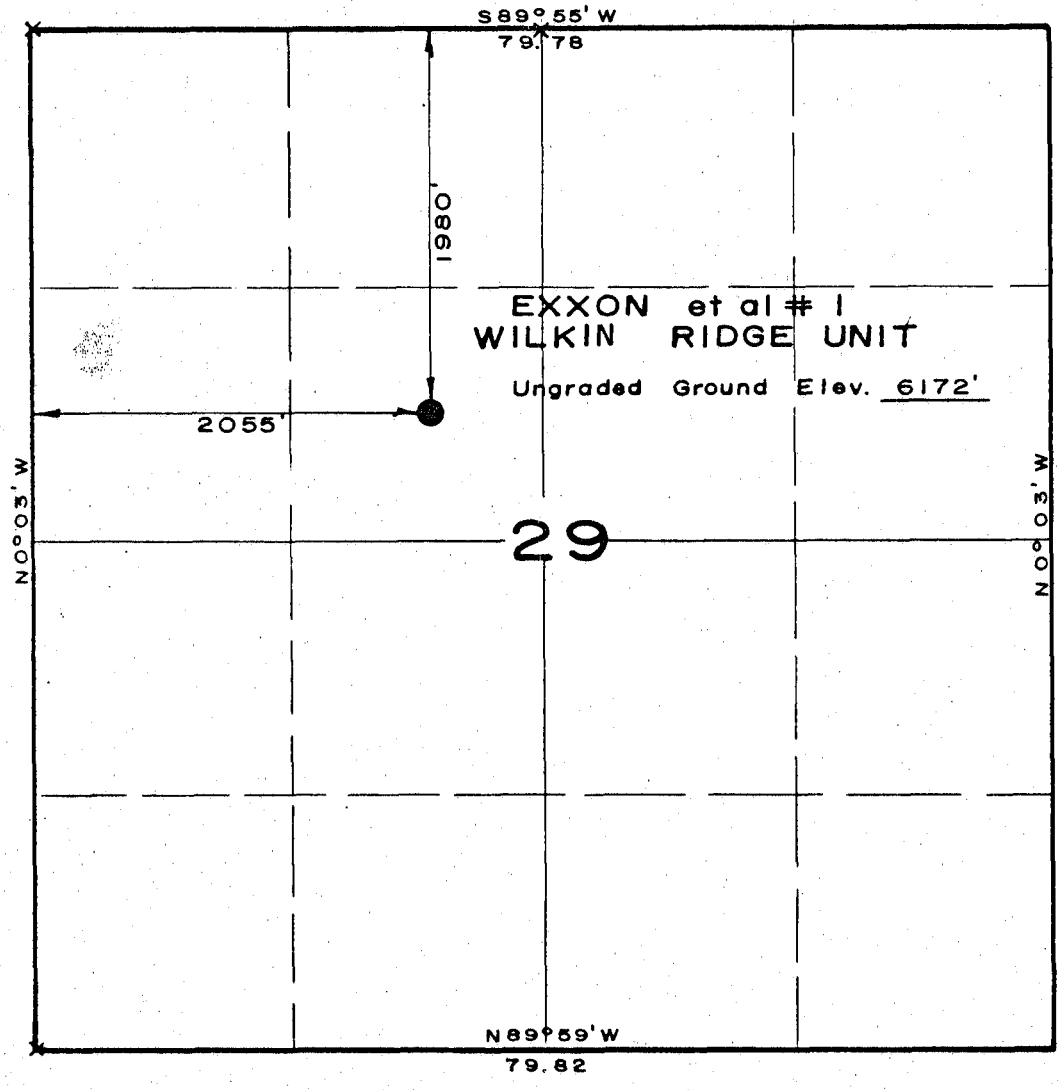
APPROVED BY [signature] TITLE DISTRICT ENGINEER DATE JUL 27 1974

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

*See Instructions On Reverse Side

T10S, R17E, S. L. M.



X = Corners Found and Used (Brass Cap).

CONFIDENTIAL

PROJECT

EXXON

Well location, *EXXON et al # 1 WILKIN RIDGE UNIT*, located as shown in the SE 1/4 NW1/4 Section 29, T10S, R17E, S.L.M., Duchesne County, Utah

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Laurence C. Kay

REGISTERED LAND SURVEYOR
REGISTRATION Nº 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q — 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 29 June 1974
PARTY L. Kay & J. Lietke	REFERENCES GLO Plat
WEATHER	FILE

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: Serial No. U-7362

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

7. UNIT AGREEMENT NAME: Wilkin Ridge Unit

2. NAME OF OPERATOR: Exxon Corporation

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: P. O. Box 120, Denver, Colorado 80201

9. WELL NO.: Exxon #1 Wilkin Ridge Unit

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' FNL, 2055' FWL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29-T10S-R17E, SLM

14. PERMIT NO.: API 43-013-30327

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6192' RDB

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	X	MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	X
REPAIR WELL		CHANGE PLANS (Csg.)	X	(Other) Surface Location			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Casing Program

13-3/8" 48 ppf conductor cemented at 64' RDB in dense rock.
8-5/8" 32 & 24 ppf surface casing setting depth changed from the 2000' to 3000' because of potential lost return zones.

Fracture Treatment

Based on formation evaluation of nearby wells, it may be necessary to stimulate the well to obtain commercial production. Tentatively a massive formation fracturing treatment is under consideration similar to the attached evaluation and stimulation proposal. With the recent developments, it may be possible to accomplish fracturing in two rather than three massive jobs.

Contingency Plans

For your information and concurrence, we attach Exxon's Contingency Plan and Brinkerhoff's Spill Prevention & Control Plan. Exxon will immediately contact the U.S.G.S. and the B.L.M. in the event of an emergency, using the Code of Federal Regulations as our basic policy. However, should either office have additional instructions, please advise so that we can immediately incorporate these in our overall plan.

(Continued on Page 2)

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Division Drilling Manager DATE Sept. 6, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Surface Location

Exxon's representatives measured the present location and surrounding disturbed area on September 4, 1974, as indicated by the attached plat. Mr. Bart Bennion and Mr. Jim Robins of the BLM, Vernal, Utah office inspected the location with Exxon's representatives. Mr. Ed Hays and Mr. Wendell Westerfeld visited Mr. Marty Lampman, BLM Area Manager at Vernal, and presented Exxon's rehabilitation proposal for the disturbed area around the location which will be seeded this fall. Mr. Lampman concurred with the plan and will be advised prior to commencing actual work.

Mr. Lampman was also advised of Exxon's plans to immediately install erosion control measures at two agreed places where the sand and gravel materials were taken along the existing road to the location. We understand that Mr. Marty Lampman desires Exxon to notify and work with Mr. Bart Bennion on this phase of rehabilitation.

Gas Line Right-of-Way

After an extended test period, Exxon will need to lay a gas sales line to Mountain Fuel's existing gas line south in Section 32. A right-of-way will be flagged for the BLM's inspection prior to final survey for the application.

Original - Mr. E. W. Gwynn, U.S.G.S., Salt Lake City
cc: Mr. Marty Lampman, BLM, Vernal
Utah Division of Oil & Gas Conservation
Mr. S. E. Loy
Mr. D. Hawkins
Mr. B. J. Bruce/W. B. Highland

UINTA BASIN WASATCH - MESAVERDE GAS TEST

9-MILE CANYON PROSPECT

GENERAL

Drilling Depth: 11,500'

Wasatch Section: 5000' - 8000'

Mesaverde Section: 8000' - 11,500'

Anticipated Net Pay: Wasatch - 200'- 250'
Mesaverde - 400' -500'

Anticipated Porosity: 8% - 12%

Anticipated Water Saturation: 45% - 55%

Anticipated Air Permeability: Wasatch - .8 md - 1.5 md
Mesaverde - .08 md - .12 md

Anticipated In-Situ Permeability: Wasatch .04 md - .07 md
Mesaverde - .004 md - .006 md

Anticipated Pressure Gradient: .4 - .45 psi-ft.

Anticipated Temperature Gradient: 60°F. + 1.45°F./100'

TEST OBJECTIVE

Determine sustained gas production capability of Wasatch and Mesaverde following massive hydraulic fracturing (effective propped fracture wing length of 500').

DRILLING PROCEDURE

Drill a 7-7/8" hole to TD with a good quality chemical mud. Several cores will be cut in the Wasatch and Mesaverde. In addition, selected intervals will be drill stem tested.

CORING PROGRAM

Three or four 60-foot cores will be cut in the Wasatch and Mesaverde sections.

Anticipated core intervals are:

1. Lower Wasatch Sands: 7700' - 7800'
2. Upper Mesaverde Sands: 8200' - 8400'
3. Middle Mesaverde Sands: 9500' - 9700'
4. Lower Mesaverde Sands: 10,500' - 10,800'

Data sought from core analyses are:

1. Porosities, air permeabilities, and fluid saturations.
2. Drainage test measurements of water saturation.
3. Rock measurements to assist in log analysis of water saturation.

It is anticipated that fracture design work will be done on selected cores with emphasis on clay damage and fluid cleanup. In addition, several cores may be analyzed for permeability measurements under water saturation and confining pressure conditions expected in the reservoir.

DRILL STEM TESTING

The principal objective of drill stem tests in the Wasatch and Mesaverde sections will be to determine in-situ permeability and original formation pressure. Four to six drill stem tests are planned. Cored intervals should be tested if possible.

Recommended drill stem procedures are:

Water cushion: none or up to 500 feet

Initial flowing period: 15 minutes

Initial shut-in period: 1 hour

Final flowing period: If production is obtained, flow for two hours. Terminate the test if prodiction is not obtained.

Final shut-in period: Four hours following production tests. No final shut-in period in tests without production.

LOGGING PROGRAM

IES

Neutron-Density

Gamma Ray - Sonic w/Caliper

Bottom hole temperature should be measured on each logging run.

CASING PROGRAM

Surface/intermediate casing as required

5½" casing to TD

2-7/8" tubing

CASING PROGRAM (cont)

The 5½" casing should be designed to permit pumping down the tubing-casing annulus during fracturing. Surface pressures during fracturing will be 6000-7500 psi.

COMPLETION PROCEDURE

The objective of the completion procedure is to stimulate 600 to 700 feet of sand in 25 to 30 separate zones. EPRCo's Polymulsion fracturing fluid (2/3 condensate and 1/3 brine) is the probable fluid selection. Total fluid requirement for fracturing will be 12,000 to 18,000 barrels (600 barrels/zone). Logistics of handling this amount of fluid and potential advantages of stage fracturing 10± intervals instead of 25 to 30 indicate that three jobs should be done in lieu of one very large job. With the Polymulsion fluid, this procedure will minimize the amount of condensate required by permitting reuse in subsequent jobs.

Anticipated depth intervals for the three jobs, are 5000' to 8000' (Wasatch), 8000' to 9500' (Mesaverde) and 9500' to 11,500' (Mesaverde). In each job, there will be 10± zones with each zone representing a stage in the fracture treatment. Net sand per zone will be 25 to 30 feet with some zones having as much as 50 to 70 feet of net sand. A base temperature survey should be run across the Wasatch and Mesaverde sections before perforating any zone; it will be used in determining the effectiveness of the multistage fracturing treatments.

The general procedure for each job is detailed below.

1. Perforate each zone with an equal number of perforations, such as 20.

2. Stage fracture using ball sealers between each stage to selectively fracture each completion zone. Fracture design should be for an effective fracture wing length of 750' to 1000'.

3. Run temperature surveys at ½ hour, 1 hour, and 2 hour intervals following fracturing to evaluate stimulated intervals.

4. Flow well back following the 2 hour temperature survey for cleanup.

5. Following cleanup, produce at the maximum sustained rates for 15 to 20 days, maintaining a constant surface flowing pressure if possible. A 3-phase separator should be available for condensate recovery.

POST TREATMENT TESTING

An extended production test (6 months to one year) will be required to determine the effectiveness of the fracturing program. Facilities should be available for continuous metering of gas production.

After extended production tests of 5 to 6 months, decision will be made as to the advisability to continue producing or perforate and fracture the remaining gas bearing zones.

EES/GDT:mg
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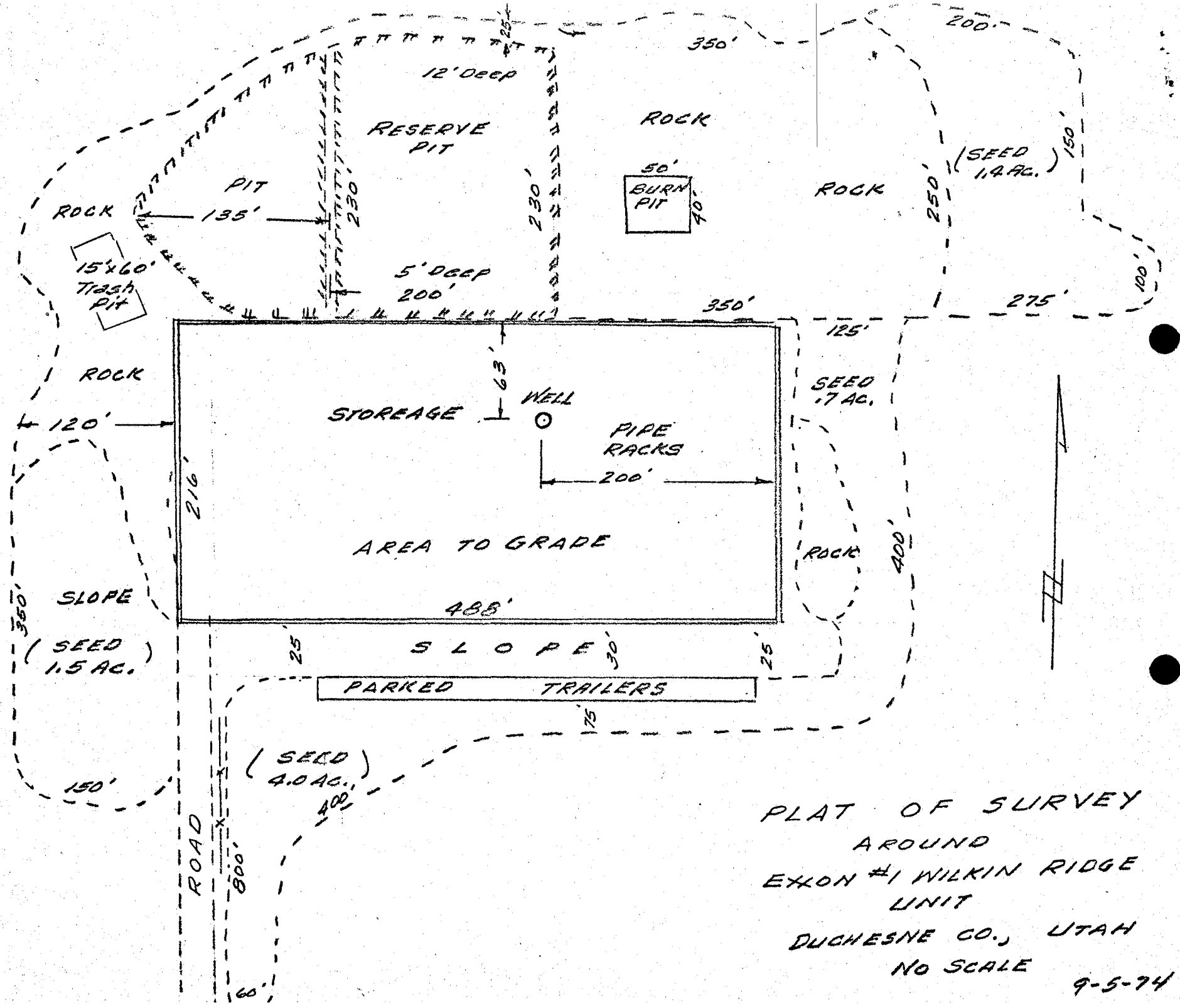

PLAT OF SURVEY
AROUND
EXXON #1 WILKIN RIDGE
UNIT
DUCHESNE CO., UTAH
NO SCALE

9-5-74