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

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

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

2. NAME OF OPERATOR: Mobil Oil Corporation Attn: L. C. Case

3. ADDRESS OF OPERATOR: P.O. Box 5444 Denver, Colorado 80217-5444

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 1699' FNL and 2152' FEL, Section 30
At proposed prod. zone Straight Hole

5. LEASE DESIGNATION AND SERIAL NO.: U-17251

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT AGREEMENT NAME: Proposed Elba Flats Unit

8. FARM OR LEASE NAME: Federal Thompson

9. WELL NO.: 1-30

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 30-T21S-R22E

12. COUNTY OR PARISH: Grand

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 10 miles east of Thompson, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1699'

16. NO. OF ACRES IN LEASE: 2522.32

17. NO. OF ACRES ASSIGNED TO THIS WELL: 621.28

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: NA

19. PROPOSED DEPTH: 18,000'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4610' GR

22. APPROX. DATE WORK WILL START*: Before Feb. 28, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	90#/Ft.	200'	Circulate to Surface
17-1/2"	13-3/8"	61 & 68#/Ft.	4300'	750 sx - Circulate to Surface
12-1/4"	9-5/8"	47#/Ft	12,900'	1100 sx
8-1/2"	7"	38#/Ft.	12,400 to 16,000'	400 sx
5-3/4"	5"	18#/Ft.	15,600 to 18,000'	130 sx

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 L C Case TITLE Division Regulatory Engineer DATE Jan. 18, 1982

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY W P Martins for E. W. Guynn TITLE District Oil & Gas Supervisor DATE FEB 23 1982

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

STATE O&G

Identification CER/EA No. 163-82

Minerals Management Service
Oil and Gas Operations
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Mobil Oil Corporation

Project Type Oil and Gas Well - Wildcat

Project Location 1699' FNL & 2152' FEL - Sec. 30, T. 21S, R. 22E

Well No. 1-30 Lease No. U-17251

Date Project Submitted January 19, 1982

FIELD INSPECTION

Date February 11, 1982

Field Inspection Participants

Craig Hansen - MMS, Vernal

Elmer Duncan - BLM, Moab

Bill Wright - Mobil Oil Corporation

Louis Pouge - Grand County

Dallas Galley - Dirt Contractor

Bill Bunniger - Dirt Contractor

Related Environmental Documents:

I have reviewed the proposal in accordance with the categorical exclusion review guidlines. This proposal would not involve any significant effects, and, therefore, does not represent an exception to the categorical exclusions.

2-12-82
Date Prepared

Craig Hansen
Environmental Scientist

I concur

FEB 22 1982
Date

FOR E. W. GUYNN
DISTRICT OIL & GAS SUPERVISOR

District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency: Correspondence (date)	Federal/State Agency: Phone check (date)	Federal/State Agency: Meeting (date)	Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
Public health and safety	BLM 2-16-82 /						2, 6	2-11-82 2,4,6	8 4
Unique characteristics	/						2, 6	2,4,6	8 4
Environmentally controversial	/						2, 6	2,4,6	8 4
Uncertain and unknown risks	/						2, 6	2,4,6	8 4
Establishes precedents	/						2, 6	2,4,6	8 4
Cumulatively significant	/						2, 6	2,4,6	4
National Register historic places	/								4
Endangered/ threatened species	/								
Violate Federal, State, local, tribal law	/							2,4,6	8, 4

PROPOSED ACTION:

Mobil Oil Corporation plans to drill an 18,000' test into the Mesozoic Formation. Due to the depth of drilling, there is a possibility of hitting H_2S. Since there has been no previous drilling at these depths in this area it is not known if an H_2S zone exists.

Because the location will require minimal dirt work and since there are no towns or residences near the drill site, the writer of this CER finds the proposal to be an acceptable action.

RECOMMENDED STIPULATIONS FOR MOBIL OIL WELL #1-30:

1. The location will be enlarged 160' x 185' on the southwest corner to allow adequate space.
2. Production facilities will be painted a color to blend in with the natural surroundings.
3. A Grand County Road Permit will be obtained for existing access to the location.
4. Appropriate warning signs and flags will be placed on all access roads to the location.
5. If H_2S gas is discovered prior to Contingency Plan implementation, operations will cease until all safety equipment and plan procedures are operational.
6. The top 12" of topsoil will be stockpiled separately from spoil piles. Upon completion of activities, topsoil will be redistributed over the location to insure rehabilitation efforts.
7. The operator must adhere to all BLM surface stipulations.
8. There are no production facilities approved. If production occurs, separate plans must be submitted outlining H_2S serviceability.
9. Access roads will be gravelled to allow safe travel and to provide an escape of an emergency occurs.
10. Hydrogen Sulfide detectors will be installed at the collar or bell nipple and mud tanks at the shale shaker.
11. At least two wind socks will be installed on the location at readily visible location.

12. Adequate supplies of Hydrogen Sulfide Mud Scavengers will be on the location throughout drilling operations.

13. The operator will adhere at all times to the H_2S Contingency Plan that was submitted to the Minerals Management Service by Mobil Oil.

Mobil Oil Corp
#
1-30 South

Mobil Oil Corp
#1-30 north

IN REPLY REFER TO

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
Grand Resource Area
P. O. Box M
Moab, Utah 84532

3109
U-17251
(U-068)

FEB 12 1982

Memorandum

To: Minerals Management Services
Oil & Gas Operations
P. O. Box 1037
Vernal, Utah 84078

RECEIVED FEB 18 1982 GEOLOGICAL SURVEY

From: Area Manager, Grand

Subject: Mobil Oil Corporation (APD)
Fed. Thompson 1-30, Lease #U-17251
SW/NE Sec. 30, T. 21 S., R. 21 E., SLB&M
Grand County, Utah

On February 11, 1982 a representative from this office met with Cody Hansen, MMS, and Bill Wright, agent of the Mobil Oil Corporation for an inspection of the above referenced location. Subject to the attached conditions and written approval from USGS, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Mobil Oil Corporation.

Colin P. Christensen

Enclosures: (4)
1-Reclamation Procedures
2-Seed Mixture
3-Suggested Colors - Production Facilities
4-Survey & Design Class III Roads

Company: Mobil Oil Corporation
Well: Fed. Thompson 1-30
Section: 30 T., 21 S., R. 22 E.

ADDITIONS TO THE MULTIPOINT SURFACE USE PLAN AND RECLAMATION PROCEDURES

CONSTRUCTION:

1. The operator or his contractor will contact the Grand Resource Area Office in Moab, Utah (phone (801) 259-6111) 48 hours prior to beginning any work on public land.

2. The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.

3. Use of water from sources such as wells, springs, streams or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right.

4. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the Grand Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.

5. Improvement to the existing road will be necessary. The total disturbed width allowed will be as is. The allowable travel surface will be as is. Mobil Oil Corporation agreed to gravel the existing county road in Section 30, T. 21 S., R. 22 E., between old highway 50-6, north to the railroad tracks.

   New road construction for approximately 300 feet in Section 30 will be limited to an allowable travel surface width of 18 feet with a maximum disturbance of 24 feet. For construction design and survey refer to class III road standards attachment. This road will be ditched and crowned for water control. If the railroad company will not allow Mobil to travel over their right-of-way, the new road will leave the county road further to the south and will cross the drainage and go westerly. It will be longer than 300 feet. A low water crossing will be installed in the main channel on the west side of the county road.

   Topsoil will be saved along the route and windrowed along the roads edge.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

Surfacing material will not be placed on the access road or location without prior BLM approval.

6. Location: Pad size will be 435 feet X 530 feet, and rounded off in the south west corner.

7. The top 12 inches of soil material will be removed from the location and stockpiled, ½ on the north west corner, and ½ on the south east corner.

8. The reserve pit will not be lined with commercial bentonite or plastic sufficient to prevent seepage. Keyway. The reserve pit banks will be 1.5 to 2.0 feet above pad and constructed in 8 inch lifts, machinery compacted, and sufficiently wide for equipment to pass over. Pit(s) will be 10 feet deep. They will be fenced on three (3) sides prior to drilling, and the fourth side will be fenced prior to rig removal. The fence will be 36 inch high woven wire, with a strand of barbed wire along the top for support.

REHABILITATION

1. Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash cage. Non-burnable debris will be hauled to a local town dump site.

2. The operator or his contractor will contact the Grand Resource Area BLM office in Moab, Utah, phone (801) 259-6111, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.

3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash (barrels, metal etc.) it contains must be removed from public lands.

4. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.

5. The stockpiled topsoil will be evenly distributed over the disturbed area.

6. All disturbed areas will be scarified with the contour to a depth of 12 inches. Do not smooth pads out, leave a roughened surface.

7. Seed will be (broadcast/drilled) at a time to be specified by the BLM with the following seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover. Broadcast seed will be applied at double the rate (lbs. per acre) on the enclosed seed mixture.

8. After seeding is complete the new access will be blocked to prevent any use.

9. Waterbars will be used as needed on all sloping surfaces as shown below:

Grade	Spacing
2%	200 ft. spacing
2-4%	100 ft. spacing
4-5%	75 ft. spacing
+5%	50 ft. spacing

PRODUCTION

1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. All of the stockpiled topsoil will be used in reclaiming the unused areas.

2. All above-ground production facilities will be painted immediately upon Production using the attached suggested colors.

3. The access will be to the design of a class III road.

4. Depending on oil production, a dirt berm will be constructed around the oil storage tanks large enough to hold the tank gallonage capacity plus 25%. The loading valves will be on the inside of the berm.

MUD PROGRAM

INTERVAL	MUD WEIGHT	TYPE OF SYSTEM
0'-4300'	8.6-8.8	Native/gel water-lime
4,300'-12,900'	8.9-9.2	Low Solids
12,900'-16,600'	10.4-12.0	Saturated Salt Mud
16,600'-18,000'	9.0-9.2	Lengthly treated

Additives: bentonite, barite, caustic soda, lignite, lignosulfonate, LCM, organic polymers, lime and zinc carbonate as needed for H_2S control.

CEMENTING PROGRAM

13-3/8" casing:	1250 sx 65/35 Lite Pozmix + 750 sx Class "G" regular (cement to surface).
9-5/8" intermediate:	800 sx 65/35 Lite Pozmix + 300 sx Class "G" regular (cement to 9000'±).
7" Liner:	400 sx Class "G" regular (cement to 9-5/8" intermediate).
5" Liner:	130 sx Class "G" regular (Cement to 7" liner).

SEED MIXTURE

Species		Rate lbs/acre
Grasses		
Oryzopsis hymenoides	Indian rice grass	1
Hilaria jamesii	Curley grass	1
Forbs		
Sphaeralcea coccinea	Globemallow	1
Shrubs		
Atriplex nuttallii cuneata	Nuttall saltbush	1
Ceratoides lanata	Winterfat	1
	Total	5

Broadcast seed will be applied at double the above rate.

Seeding will be done in the fall of the year (Oct. - Dec.).

[illegible] GAS

[illegible]

[illegible] Plants [illegible] Cliffs:

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	------
[illegible]	[illegible]

[illegible]

[illegible]	[illegible]
Sea Life	[illegible]
Dynasty Green	(Sea[illegible])

Similar [illegible] other than the ones mentioned above must be approved by the Grand Resource Area Manager.

Form OGCC-1 a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

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

2. NAME OF OPERATOR: Mobil Oil Corporation Attn: L. C. Case

3. ADDRESS OF OPERATOR: P.O. Box 5444 Denver, Colorado 80217-5444

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1699' FNL and 2152' FEL, SEction 30
At proposed prod. zone: Straight Hole SWNE

5. LEASE DESIGNATION AND SERIAL NO.: U-17251

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT AGREEMENT NAME: Proposed Elba Flats Unit not approved yet 2-9-82

8. FARM OR LEASE NAME: Federal Thompson

9. WELL NO.: 1-30

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 30-T21S-R22E

12. COUNTY OR PARISH: Grand

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 10 miles east of Thompson, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any): 1699'

16. NO. OF ACRES IN LEASE: 2522.32

17. NO. OF ACRES ASSIGNED TO THIS WELL: 621.28

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: NA

19. PROPOSED DEPTH: 18,000'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4610' GR

22. APPROX. DATE WORK WILL START*: Before Feb. 28, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	90#/Ft.	200'	Circulate to Surface
17-1/2"	13-3/8"	61 & 68#/Ft.	4300'	750 sx - Circulate to Surface
12-1/4"	9-5/8"	47#/Ft.	12,900'	1100 sx
8-1/2"	7"	38#/Ft.	12,400 to 16,000'	400 sx
5-3/4"	5"	18#/Ft.	15,600 to 18,000'	130 sx

RECEIVED JAN 26 1982 DIVISION OF OIL, GAS & MINING

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: 2/18/82
BY: [signature]

SEE ATTACHED

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: J. L. Douglass TITLE: Acting Division Regulatory Engineer DATE: 1/21/82

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

3. ~~[illegible]~~ ✓

** FILE NOTATIONS **

DATE: 2-5-82

OPERATOR: Mobil Oil

WELL NO: Federal Thompson 1-30

Location: Sec. 30 T. 21S R. 22E County: Grand

File Prepared: ✓ Entered on N.I.D: ☐

Card Indexed: ☐ Completion Sheet: ☐

API Number 43-019-30918

CHECKED BY:

Petroleum Engineer:

Director: OK rule C-3(c)

Administrative Aide: As per Rule C-3(c), needs topo, ok on other wells.

APPROVAL LETTER:

Bond Required: ☐ Survey Plat Required: ☐

Order No. O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation Fed. Plotted on Map ☐

Approval Letter Written ☐

Hot Line ✓ P.I. ✓

Please direct mail to:

Mobil Oil Corporation
P.O. Box 5444
Denver, Colorado 80217-5444
Attn: L. C. Case

Mail directed in this manner will be received at destination much quicker.
Thank you for your cooperation.

303-572-2000

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217

EXPRESS MAIL

February 10, 1982

RECEIVED
FEB 11 1982
DIVISION OF
OIL, GAS & MINING

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
Room 4241 State Office Bldg.
Salt Lake City, Utah 84114

APPLICATION FOR WELL
LOCATION EXCEPTION
FEDERAL THOMPSON NO. 1-30 WELL
SECTION 30-T21S-R22E
GRAND COUNTY, UTAH

Gentlemen:

Mobil Oil Corporation requests permission to drill an exploratory well in Section 30-T21S-R22E as an exception to Utah Rule C-3 general well spacing requirement. The proposed well is to be located 1699 feet FNL and 2152 feet FEL of the section and will be within 500 feet of legal governmental quarter-quarter section lines. Please refer to Mobil's application for a permit to drill this well dated January 21, 1982.

This well was originally proposed to be located in the center of the SW/4 NE/4 of Section 30 but topographical considerations necessitated that the well be located as now proposed. The area is interlaced with numerous ridges and canyons formed by non-perennial streams and washes. The sides of the hills and canyons are rather steep and outcrops of sandstones, conglomerates, and shale deposits, are common in the area forming ledges and cliffs along the sides of the canyons. The "legal" location in this quarter-quarter section would require that the well pad be built on a very rough and steep knob.

The area within 660 feet of the proposed location is contained in the same lease as the drillsite location. Mobil holds the USGS lease identified as No. U-17251 which is comprised of all of sections 28, 29, 30, and 31, T21S, R22E. Attached is an outline of leases to be included in the proposed Elba Flats Unit, which will include the proposed well. A survey plat and topographical map of the area is also enclosed.

We request that approval of this location exception be granted without notice and hearing and that approval of our application for a permit to drill be expedited as we hope to spud this well by Febrary 28, 1982, prior to the expiration of many of the leases within the proposed unit.

If you require further information, please call B. R. Maynard at (303) 572-2069,

Yours very truly,

L. C. Case By R. A. Smith

BRMaynard/djs

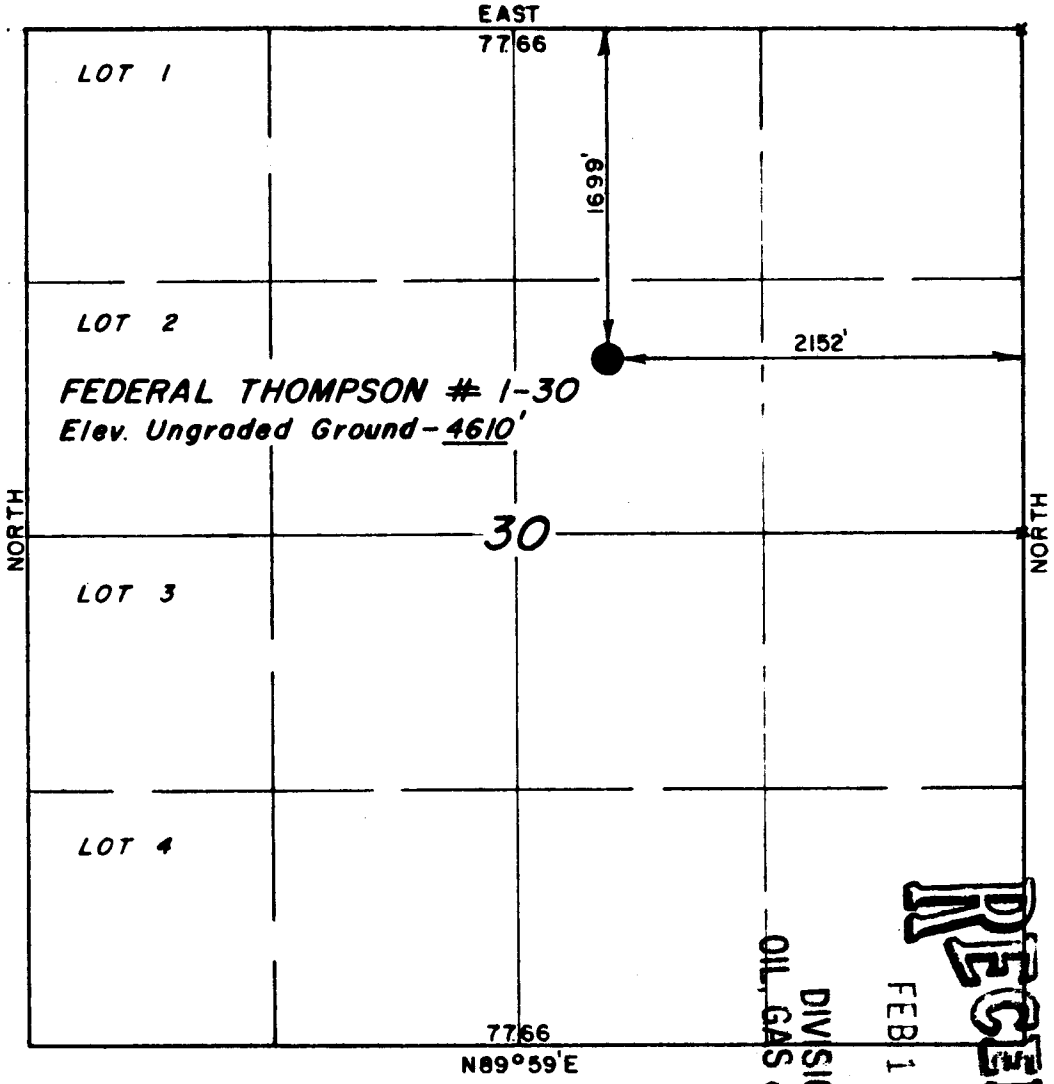
L. C. Case
Division Regulatory Engineer

PROJECT

MOBIL OIL CORPORATION

Well location *FEDERAL THOMPSON # 1-30* located as shown in the SW 1/4 NE 1/4 Section 30, T 21S, R 22E, S.L.B.&M. Grand County, Utah.

T21S , R22E , S.L.B.&M.



X = Section Corners Located

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.

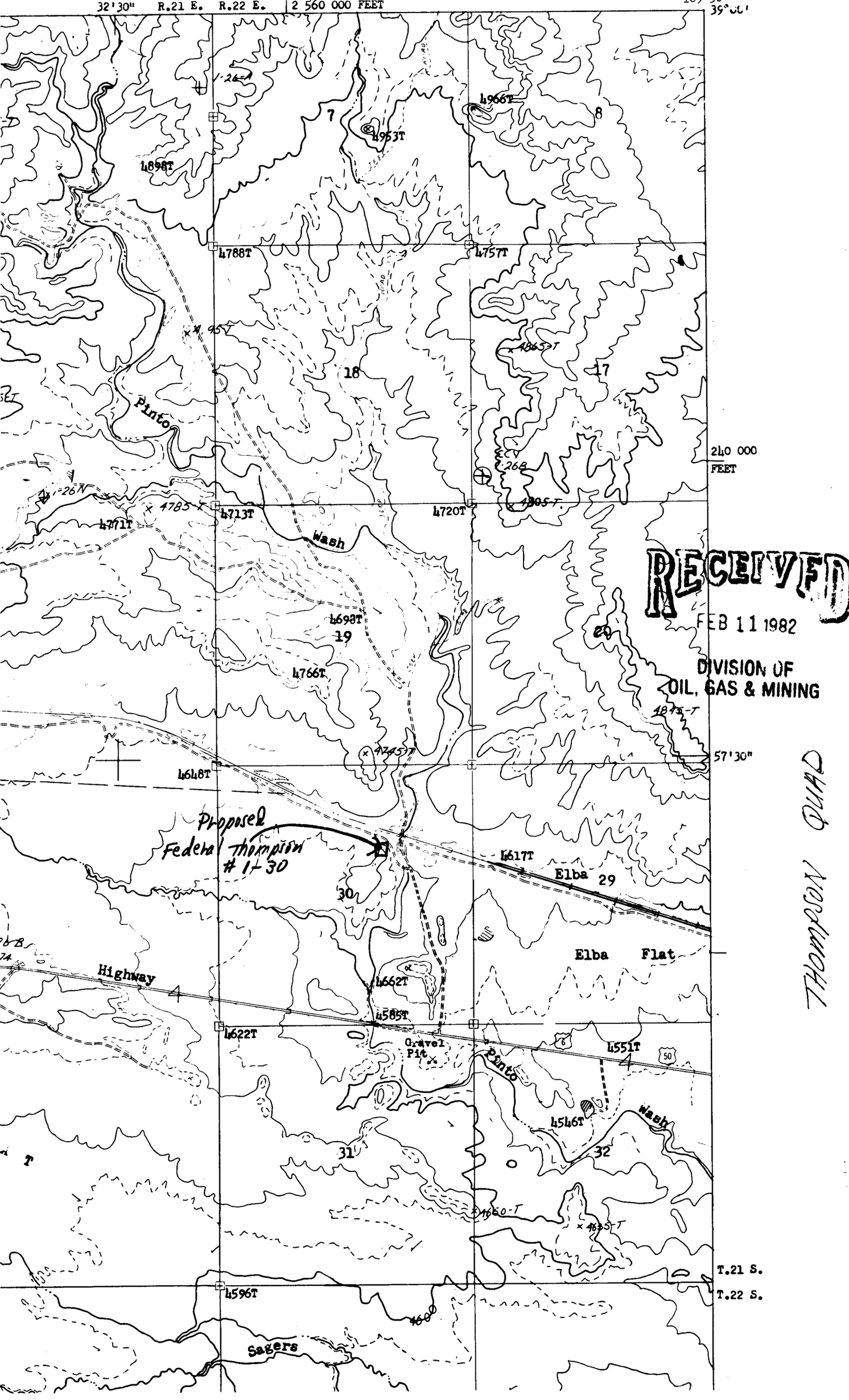
Lawrence C. Kay

REGISTERED LAND SURVEYOR
REGISTRATION № 3137
STATE OF UTAH

RECEIVED
FEB 11 1982
DIVISION OF
OIL, GAS & MINING

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

SCALE 1" = 1000'	DATE 4/13/81
PARTY LDT SH TS FCO	REFERENCES GLO Plat
WEATHER Clear Warm	FILE MOBIL OIL CORP.



RECEIVED
FEB 11 1982
DIVISION OF
OIL, GAS & MINING

THOMPSON

February 19, 1982

Mobil Oil Corporation
Attn: L. C. Case
P. O. Box 5444
Denver, Colorado 80217-5444

Re: Well No. Federal Thompson 1-30
Sec. 30, T. 21S, R. 22E
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil/gas well on said unorthodox location is hereby granted in accordance with Rule C-3(c), 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 herby requested to immediately notify the following:

CLEON B. FEIGHT - DIRECTOR
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30918.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight

Cleon B. Feight
Director

CBF/as
Enclosure
cc: USGS

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

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.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

2. NAME OF OPERATOR: Mobil Oil Corporation; Attn: L. C. Case

3. ADDRESS OF OPERATOR: P.O.BOX 5444; Denver, CO 80217-5444

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1699' FNL and 2152' FEL Section 30-21S-22E

5. LEASE DESIGNATION AND SERIAL NO.: U-17251

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT AGREEMENT NAME: Elba Flats Unit

8. FARM OR LEASE NAME: Federal Thompson

9. WELL NO.: 1-30

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 30-T21S-R22E

14. PERMIT NO.: API 43-019-30918

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4610' GR

12. COUNTY OR PARISH: Grand

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) Name Change			☐				

(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 Elba Flats Unit has been approved. This well should now be identified as follows:

Operator: Mobil Oil Corporation

Well Name and Number: American Petrofina Elba Flats Unit No. 1-30

RECEIVED
MAR 15 1982
DIVISION OF OIL, GAS & MINING

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

SIGNED L C Case L. C. Case TITLE Division Regulatory Engineer DATE 3/10/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217

RECEIVED
MAY 26 1982
DIVISION OF
OIL, GAS & MINING

May 24, 1982

Ms. Cari Furse
Natural Resource Divison
Oil, Gas, & Mining
4241 State Office Building
Salt Lake City, UT 84114

Dear Ms. Furse:

Please keep all information pertaining to the Mobil-Petrofina Elba Flats Unit No. 1-30 confidential until further notice.

Sincerely,

for R. L. Gretlein
Drilling Manager
West Coast/Alaska

ts
18n/11

Confidential

Eastman Whipstock

A PETROLANE COMPANY

REPORT of SUB-SURFACE DIRECTIONAL SURVEY

MOBIL OIL COMPANY

COMPANY

ELBA FLATS UNIT 1-30

WELL NAME

GRAND COUNTY, UTAH

LOCATION

JOB NUMBER	TYPE OF SURVEY	DATE
RM682-G1761	GYROSCOPIC MULTI SHOT	7 JUNE 1982

SURVEY BY
LYNN ALEXANDER / JODY SCHRADER

OFFICE
CASPER, WYOMING

JCATION: GRAND COUNTY, UTAH 09:48:42 07-JUN-82

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOGLEG SEVERITY DG/100FT
0.00	0 0	0 0	0.0	0.00	0.00	0.00	0.00
100.00	0 22	S 83 0 W	100.0	100.00	0.04 S	0.32 W	0.37
200.00	0 45	S 34 0 W	100.0	199.99	0.53 S	1.12 W	0.58
300.00	1 7	S 29 0 W	100.0	299.98	1.92 S	1.97 W	0.38
400.00	2 7	S 40 0 W	100.0	399.94	4.24 S	3.57 W	1.04
500.00	2 52	S 35 0 W	100.0	499.84	7.69 S	6.21 W	0.78
600.00	3 7	S 28 0 W	100.0	599.71	12.14 S	8.94 W	0.44
700.00	3 7	S 29 0 W	100.0	699.56	16.92 S	11.53 W	0.05
800.00	2 45	S 22 0 W	100.0	799.43	21.53 S	13.74 W	0.51
900.00	0 45	S 62 0 E	100.0	899.38	24.15 S	12.78 W	2.77
1000.00	0 30	S 29 0 E	100.0	999.37	25.01 S	12.17 W	0.60
1100.00	1 30	S 28 0 W	100.0	1099.35	26.70 S	12.46 W	1.14
1200.00	1 45	S 18 0 W	100.0	1199.31	29.31 S	13.56 W	0.38
1300.00	1 45	S 33 0 W	100.0	1299.27	32.06 S	14.87 W	0.46
1400.00	1 52	S 29 0 W	100.0	1399.22	34.76 S	16.50 W	0.17
1500.00	2 7	S 27 0 W	100.0	1499.16	37.83 S	18.13 W	0.26
1600.00	2 22	S 21 0 W	100.0	1599.08	41.40 S	19.72 W	0.34
1700.00	2 15	S 15 0 W	100.0	1699.00	45.23 S	20.96 W	0.27
1800.00	2 22	S 22 0 W	100.0	1798.92	49.04 S	22.24 W	0.30
1900.00	2 52	S 22 0 W	100.0	1898.81	53.28 S	23.95 W	0.50
2000.00	2 52	S 22 0 W	100.0	1998.69	57.91 S	25.82 W	0.00
2100.00	3 0	S 21 0 W	100.0	2098.56	62.67 S	27.70 W	0.14
2200.00	3 45	S 20 0 W	100.0	2198.38	68.19 S	29.76 W	0.75
2300.00	4 15	S 17 0 W	100.0	2298.14	74.80 S	31.98 W	0.54
2400.00	4 30	S 13 0 W	100.0	2397.85	82.17 S	33.95 W	0.39
2500.00	4 45	S 12 0 W	100.0	2497.52	90.04 S	35.69 W	0.26
2600.00	4 52	S 15 0 W	100.0	2597.17	98.19 S	37.65 W	0.23
2700.00	4 22	S 13 0 W	100.0	2696.85	106.00 S	39.60 W	0.53
2800.00	3 45	S 15 0 W	100.0	2796.59	112.87 S	41.31 W	0.63
2900.00	3 45	S 16 0 W	100.0	2896.38	119.17 S	43.06 W	0.07

Example

OCATION: GRAND COUNTY, UTAH 09:48:42 07-JUN-82

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOGLEG SEVERITY DG/100FT
3000.00	3 15	S 12 0 W	100.0	2996.19	125.09 S	44.53 W	0.56
3100.00	2 45	S 17 0 W	100.0	3096.06	130.16 S	45.84 W	0.56
3200.00	3 0	S 17 0 W	100.0	3195.93	134.95 S	47.31 W	0.25
3300.00	2 45	S 18 0 W	100.0	3295.80	139.74 S	48.82 W	0.25
3400.00	2 30	S 24 0 W	100.0	3395.70	144.01 S	50.46 W	0.37
3500.00	2 45	S 19 0 W	100.0	3495.59	148.27 S	52.14 W	0.34
3600.00	2 22	S 20 0 W	100.0	3595.49	152.48 S	53.63 W	0.39
3700.00	2 22	S 23 0 W	100.0	3695.41	156.32 S	55.14 W	0.12
3800.00	2 30	S 24 0 W	100.0	3795.32	160.21 S	56.83 W	0.14
3900.00	2 15	S 27 0 W	100.0	3895.23	163.95 S	58.62 W	0.28
4000.00	2 7	S 23 0 W	100.0	3995.16	167.40 S	60.23 W	0.20
4100.00	2 0	S 22 0 W	100.0	4095.10	170.72 S	61.60 W	0.12
4174.00	2 7	S 19 0 W	74.0	4169.05	173.21 S	62.53 W	0.21
IE INTO PREVIOUS EASTMAN GYROSCOPIC MULTI SHOT							
4200.00	2 15	S 28 0 W	26.0	4195.03	174.12 S	62.93 W	1.41
4300.00	2 0	S 29 0 W	100.0	4294.96	177.38 S	64.69 W	0.25
4400.00	2 0	S 30 0 W	100.0	4394.90	180.41 S	66.41 W	0.03
4500.00	2 0	S 28 0 W	100.0	4494.84	183.47 S	68.11 W	0.07
4600.00	2 0	S 27 0 W	100.0	4594.78	186.56 S	69.72 W	0.03
4700.00	2 0	S 25 0 W	100.0	4694.72	189.70 S	71.25 W	0.07
4800.00	2 0	S 24 0 W	100.0	4794.66	192.87 S	72.69 W	0.03
4900.00	2 0	S 20 0 W	100.0	4894.59	196.11 S	74.00 W	0.14
5000.00	2 0	S 22 0 W	100.0	4994.53	199.37 S	75.25 W	0.07
5100.00	2 15	S 19 0 W	100.0	5094.46	202.84 S	76.55 W	0.27
5200.00	2 15	S 17 0 W	100.0	5194.39	206.57 S	77.76 W	0.08
5300.00	2 15	S 19 0 W	100.0	5294.31	210.31 S	78.98 W	0.08
5400.00	2 15	S 16 0 W	100.0	5394.23	214.05 S	80.16 W	0.12
5500.00	2 0	S 17 0 W	100.0	5494.16	217.61 S	81.21 W	0.25
5600.00	2 15	S 19 0 W	100.0	5594.10	221.13 S	82.36 W	0.26

JCATION: GRAND COUNTY, UTAH 09:48:42 07-JUN-82

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOGLEG SEVERITY DG/100FT
5700.00	2 15	S 17 0 W	100.0	5694.02	224.86 S	83.57 W	0.08
5800.00	2 15	S 16 0 W	100.0	5793.94	228.63 S	84.68 W	0.04
5900.00	2 0	S 14 0 W	100.0	5893.87	232.21 S	85.64 W	0.26
6000.00	2 15	S 14 0 W	100.0	5993.80	235.81 S	86.54 W	0.25
6100.00	2 15	S 13 0 W	100.0	6093.73	239.62 S	87.46 W	0.04
6200.00	2 15	S 15 0 W	100.0	6193.65	243.43 S	88.41 W	0.08
6300.00	2 30	S 17 0 W	100.0	6293.56	247.41 S	89.55 W	0.26
6400.00	2 15	S 17 0 W	100.0	6393.48	251.38 S	90.76 W	0.25
6500.00	2 15	S 12 0 W	100.0	6493.40	255.18 S	91.74 W	0.20
6600.00	2 15	S 17 0 W	100.0	6593.32	258.98 S	92.72 W	0.20
6700.00	2 15	S 17 0 W	100.0	6693.25	262.73 S	93.87 W	0.00
6800.00	2 0	S 20 0 W	100.0	6793.18	266.25 S	95.05 W	0.27
6900.00	2 0	S 17 0 W	100.0	6893.12	269.55 S	96.16 W	0.10
7000.00	2 15	S 16 0 W	100.0	6993.05	273.11 S	97.21 W	0.25
7100.00	2 15	S 17 0 W	100.0	7092.97	276.87 S	98.32 W	0.04
7200.00	2 0	S 18 0 W	100.0	7192.90	280.41 S	99.44 W	0.25
7300.00	2 30	S 13 0 W	100.0	7292.82	284.19 S	100.49 W	0.54
7400.00	2 30	S 18 0 W	100.0	7392.73	288.39 S	101.65 W	0.22
7500.00	2 15	S 19 0 W	100.0	7492.64	292.82 S	102.97 W	0.25
7600.00	2 15	S 16 0 W	100.0	7592.57	296.06 S	104.15 W	0.12
7700.00	2 15	S 16 0 W	100.0	7692.49	299.84 S	105.23 W	0.00
7800.00	2 0	S 15 0 W	100.0	7792.42	303.41 S	106.22 W	0.25
7900.00	2 15	S 14 0 W	100.0	7892.35	307.00 S	107.15 W	0.25
8000.00	2 0	S 16 0 W	100.0	7992.28	310.58 S	108.11 W	0.26
8100.00	2 15	S 11 0 W	100.0	8092.21	314.18 S	108.97 W	0.31
8200.00	2 0	S 14 0 W	100.0	8192.14	317.80 S	109.77 W	0.27
8300.00	1 45	S 11 0 W	100.0	8292.09	321.00 S	110.48 W	0.27
8400.00	1 30	S 10 0 W	100.0	8392.05	323.79 S	111.00 W	0.25
8500.00	1 15	S 2 0 E	100.0	8492.02	326.18 S	111.17 W	0.38
8600.00	1 15	S 10 0 W	100.0	8592.00	328.35 S	111.32 W	0.26

JCATION: GRAND COUNTY, UTAH 09:48:42 07-JUN-82

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
8700.00	1 15	S 7 0 W	100.0	8691.97	330.51 S 111.64 W	0.07
8772.00	1 0	S 3 0 W	72.0	8763.96	331.91 S 111.76 W	0.36

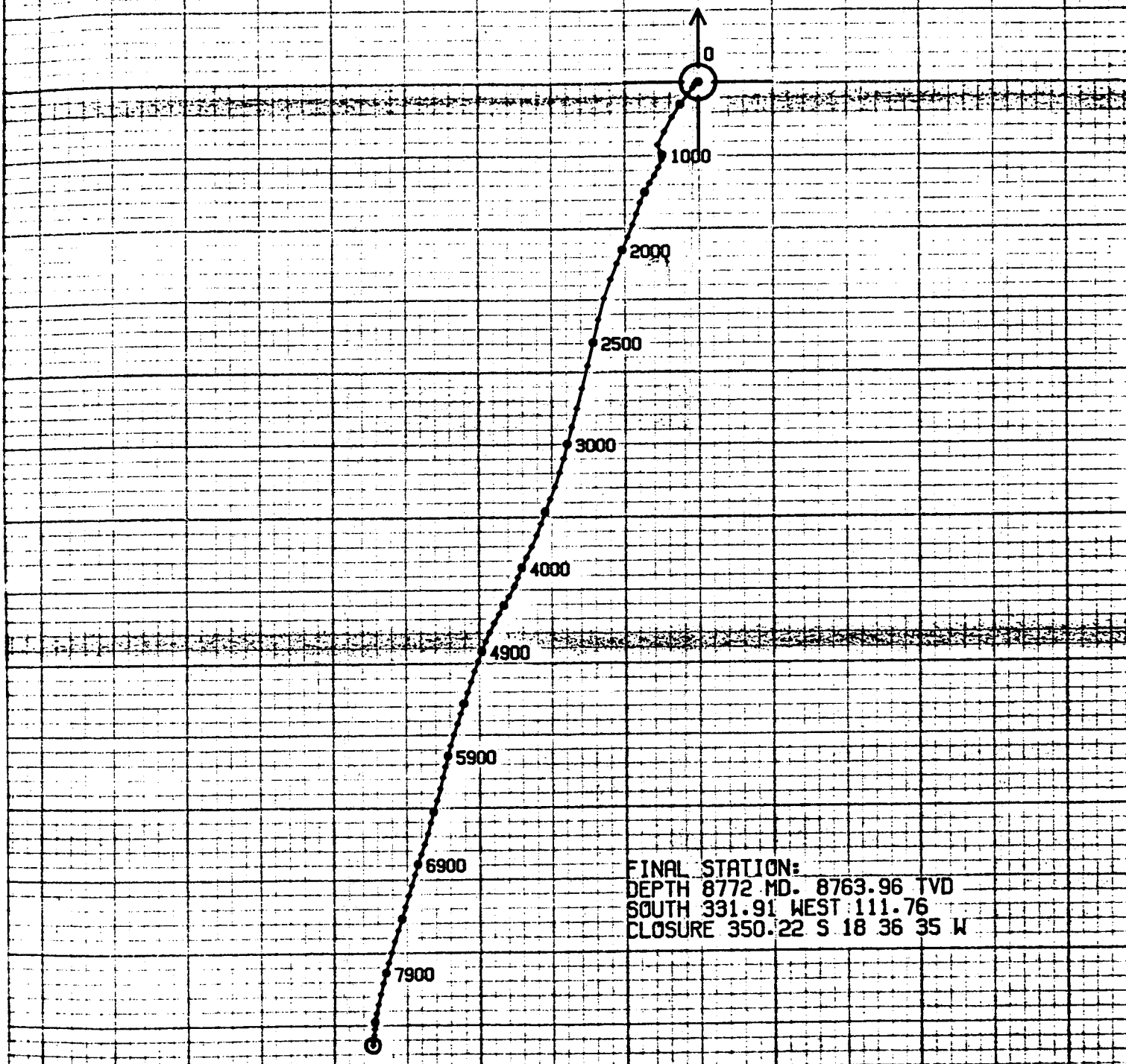
FINAL CLOSURE - DIRECTION: S 18 DEGS 36 MINS 35 SECS W
DISTANCE: 350.23 FEET

Eastman Whipstock

MOBIL OIL COMPANY
WELL NAME: ELBA FLATS UNIT 1-30
LOCATION: GRAND COUNTY, UTAH

EASTMAN WHIPSTOCK, INC.

HORIZONTAL PROJECTION
SCALE 1 IN. = 50 FEET
DEPTH INDICATOR: MD



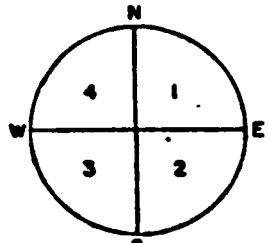
FINAL STATION:
DEPTH 8772 MD. 8763.96 TVD
SOUTH 331.91 WEST 111.76
CLOSURE 350.22 S 18 36 35 W

8772 Gyro

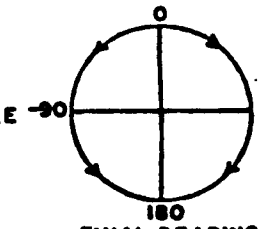
15° Correction

MOBIL OIL CORPORATION

HP 41-C DIRECTIONAL DRILLING SURVEY ROC METHOD



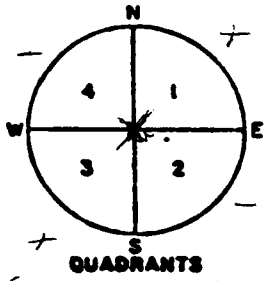
QUADRANTS

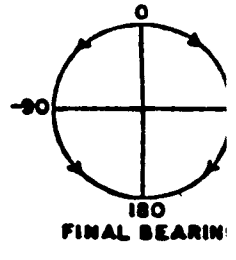


FINAL BEARING

WELL NO.: Elba Flats #1-30 DATE: 6-7-82 PREPARED BY: Cooper + Hall

SURVEY NO.	A MEASURED DEPTH	B DRIFT D2S	C BEARING DEGREES	D QUADRANT 1,2,3,4	MINT MEASURED INTERVAL FEET	VINT VERTICAL INTERVAL FEET	F VTD VERTICAL TOTAL DEPTH	G COORDINATES (FEET) +N	G −S	H +E	H −W	CLOSURE DISTANCE FEET.	FINAL BEARING DEGREES	DOG LEG SEVERITY D/100'
	8772	1°	S 3 W	3			8763.96		331.91		111.76	350.23		
1	9539	1° 45'	S-55-E	2	767	766.77	9530.73		347.75		119.49	367.71	-161.04	0.21
2	10351	7° 15'	S-63-E	2	812	809.19	10,339.92		380.53		64.94	386.03	-170.31	0.68
3	10,458	6° 30'	S-63-E	2	107	106.23	10,446.15		386.34		53.53	390.03	-172.11	0.70
4	10567	5° 0'	S-68-E	2	109	108.45	10,554.60		390.87		43.60	393.29	-173.64	1.45
5	10645	4° 0'	S-71-E	2	78	77.76	10632.36		393.01		37.87	394.83	-174.50	1.32
6	10700	3° 55'	S-74-E	2	55	54.87	10687.23		394.15		34.25	395.64	-175.03	0.41
7	10920	6° 0'	N 87 E	1	220	219.16	10906.39		394.27		33.20	395.66	-175.19	13.43
8	10992	6° 15'	N-80-E	1	72	71.59	10977.98		393.16		25.57	393.99	-176.28	1.09
9	11070	6° 0'	N-77E	1	78	77.55	11055.53		391.50		17.42	391.89	-177.45	0.52
10	11132	5° 45'	N-71-E	1	62	61.67	11117.21		389.75		11.32	389.92	-178.34	1.07
11	11226	5° 45	N-73-E	1	94	93.53	11210.73		386.84		2.36	386.85	-179.65	.21
12	11317	5° 30'	N68E	1	91	90.56	11301.29		383.86	6.05		383.91	+179.10	.60
13	11443	5° 15'	N-66-E	1	126	125.45	11426.74		379.25	16.91		379.63	+177.45	.25
14	11567	5° 15	N-66-E	1	124	123.48	11550.22		374.64	27.27		375.63	+175.84	0.00
15	11724	4° 45'	N-66-E	1	157	156.40	11706.62		369.07	39.78		371.21	+173.85	0.32
16	11881	5° 0'	N-66-E	1	157	156.43	11863.05		363.64	51.96		367.34	171.87	0.16
17	12023	5° 0'	N-61-E	1	142	141.46	12004.51		358.12	61.03		363.62	170.02	0.31
18	12220	4° 45'	N-70-E	1	197	196.29	12200.80		351.18	78.25		359.80	167.44	0.41
19	12375	4° 30'	N-78-E	1	155	154.50	12355.29		347.74	90.26		359.26	165.45	0.45





MOBIL OIL CORPORATION

HP 41-C DIRECTIONAL DRILLING SURVEY ROC METHOD

WELL NO.: Elba Flats DATE: 6-25-82 PREPARED BY: Hall & Cooper

SURVEY NO.	A MEASURED DEPTH	B DRIFT D2 5'	C BEARING DEGREES	D QUADRANT 1,2,3,4	MINT MEASURED INTERVAL FEET	VINT VERTICAL INTERVAL FEET	F VTD VERTICAL TOTAL DEPTH	G COORDINATES (FEET) +N	G −S	H +E	H −W	CLOSURE DISTANCE FEET.	FINAL BEARING DEGREES	DOG LEG SEVERITY D/100'
20	12532	3°-40'	N-81-E	1	157	156.60	12511.89		345.70	101.25		360.23	163.68	0.55
21	12624	3°-50'	S-87-E	2	92	91.80	12603.70		346.02	107.24		362.26	162.78	0.87
22	12749	3°55'	S-87-E	2	125	124.71	12728.41		346.46	115.68		365.28	161.54	0.07
23	12875	4°	S-89-E	2	126	125.70	12854.12		346.78	124.37		368.41	160.27	0.13
24	13029	5°	N-82-E	1	154	153.52	13007.64		346.76	124.68		368.49	160.22	17.89
25	13123	4°55'	S-89E	2	94	93.65	13101.29		347.25	132.78		371.78	159.07	0.83
26	13278	5°20'	N-87E	1	155	154.38	13255.67		347.25	132.94		371.83	159.05	20.52
27	13402	5°15'	N-88-E	1	124	123.47	13379.14		346.45	144.35		375.32	157.38	0.16
[illegible]	13513	5°15'	N-88-E	1	111	110.53	13489.67		345.83	154.48		378.77	155.93	0.25
29	13846	4°15	N-84-E	1	333	331.85	13821.52		343.91	181.99		389.09	152.11	0.32
30	14131	3°15	S-85-E	2	285	284.39	14105.91		344.07	200.60		398.28	149.76	0.43
31	14374	1°45	S-87-E	2	243	242.76	14348.67		344.81	211.17		404.34	148.52	0.62
32	14656	1°15'	S-79-E	2	282	281.90	14630.57		345.71	218.49		408.97	147.71	0.19
33	15177	1°30'	S-81-E	2	521	520.85	15151.42		347.88	230.80		417.48	146.44	0.05
34	15714	1° 45'	N 65-E	1	537	536.78	15688.21		364.66	232.35		418.16	146.24	1.72
35	17158	1°-30'	N1°E	1	1444	1443.42	17131.63		332.08	253.51		417.78	142.64	0.13
36	17318	1°-30'	S10°W	3	160	159.95	17291.57		332.34	250.73		416.31	142.97	2.80
37	17939	2°-25'	S-01-W	3	621	620.63	17912.20		353.45	248.69		432.17	144.87	0.16
38	18129	2°-15'	S-30E	2	190	189.84	18102.05		360.84	250.61		439.33	145.22	.67
39	18450	5-45'	S15W	3	321	320.17	18422.21		382.47	247.76		455.71	147.07	1.46

Form 9-331
Dec. 1973

CONFIDENTIAL

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other Wildcat
2. NAME OF OPERATOR
Mobil Oil Corporation; Attn: L. C. Case
3. ADDRESS OF OPERATOR
P.O. Box 5444; Denver, CO 80217-5444
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1699' FNL & 2152' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Sec. 30-T21S-R22E
Straight Hole

5. LEASE
U-17251
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A
7. UNIT AGREEMENT NAME
Elba Flats Unit
8. FARM OR LEASE NAME
American Petrofina Elba Flats Unit
9. WELL NO.
1-30
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 30-T21S-R22E
12. COUNTY OR PARISH: Grand
13. STATE: Utah
14. API NO.
43-019-30918
15. ELEVATIONS (SHOW DF, KDB, AND WD)
4610' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Change Program		

RECEIVED
AUG 10 1982
DIVISION OF
OIL, GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Approval is requested to increase the permitted depth from 18,000' to 19,500'. The new projected depth is based on seismic velocities that more accurately reflect the lithologies encountered in drilling to date. The current drilling depth is 17,186'. The original program for this well called for a 7" liner to be set from 16,000' back into the 9-5/8" casing. Since no hole problems have been encountered, it is proposed to drill to TD if possible before setting the 7" liner.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8-10-82
BY: [illegible]

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED L. C. Case TITLE Division Regulatory Engineer DATE August 6, 1982
L. C. Case

(This space for Federal or State office use)

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

cc: [redacted]

*See Instructions on Reverse Side

CONFIDENTIAL

TABLE OF CONTENTS

	PAGE
RESUME	1
SUMMARY AND CONCLUSIONS	3
ZONES OF INTEREST	4
FORMATION TOPS	5
ELECTRIC LOG DATA	6
DAILY DRILLING CHRONOLOGY	11
BIT RECORD	23
MUD RECORD	25
SURVEYS AND DRILLING FUNCTIONS	32
LITHOLOGY SUMMARY	36
LITHOLOGIC LOG IN BACK FLAP	

RESUME

OPERATOR:	Mobil Oil Corporation - American Petrofina
OTHER INTERESTED PARTIES:	Gulf Oil
WELL NAME:	Elba Flats Unit #1-30 (Federal Thompson 1-30)
LOCATION:	1699' FNL, 2152' FEL, SW/NE, Sec. 30-T21S-R22E
COUNTY:	Grand
STATE:	Utah
AREA:	Northern Paradox Basin - along the southwestern margin of the Uncompahare Uplift - 12 miles east of Thompson Utah.
ELEVATION:	4610 G.L., 4637 K.B.
ENGINEER:	Carl Robison Jr., Chris Cooper, Jay Hall, Chuck Stimmel
GEOLOGIST:	Shell Abegglen
SPUD DATE:	Spud 26" hole February 24,1982 - 8:00 P.M.
COMPLETION DATE:	Reached Total depth @ 2:45 P.M. August 24th,1982
HOLE SIZE"	26" to 535'. 17 1/2" to 4220'. 12 1/4" to 8772', 8 1/2" to 18,153', 7 7/8" to 18,450'.
CASING:	20" set at 532', 94#K-55 pipe, 14 jnts, cemented by Dowell.13 3/8" set at 4220', 23 jnts 68#, K-55, 74 jnts. 61#, K-55 Buttress csng. cemented by B.J. Huhges, 1984 sxs class 'G', 3% A-2, 350 sxs 2% R-5. 9 5/8" set at 8772', 203 jnts, 47#, S-95, cemented w/745 sx Halliburton Lite, 287 sx class 'G'
CONTRACTOR:	Parker Drilling Company
EQUIPMENT:	Parker Rig # 177
TOOL PUSHERS:	Dave Daley and Joe Petitti
DRILLERS:	Wayne Ramer, Herb Brown, Tony Tank, L.W. Mosher, Lane Larsen and Joseph Karpsak
DERRICK:	Parco 142'
FLOOR:	27' sub
DRAWWORKS:	1000 OlME changed to S1500L .OlME

RESUME CONT'D

PUMPS:	#1 and #2= National 8-P-80 6X8 1/2", changed both pumps to National 9-P-100 5 1/2X9 1/4"
	July 13th,1982
DRILL PIPE:	5" Grade 'E' 19.5# 1F
DRILL COLLARS:	6 3/4", 9"
DRILLING MUD CO.:	NL Baroid
MUD ENGINEERS:	Orville Penfield, Lynn Harber, Salomon Garcia and Bill Wethington.
MUD TYPE:	LSND to 16,156'. 16,156 to T.D. - Saturated Salt Brine
MUD LOGGING CO.:	Total Depth Engineering - Casper, Wyoming.
MUD LOGGING ENGINEERS:	Rick LeFavor, Ron Froh, Steve Strauch Tom Scarsella, Candice Palmer, and Tom Ronstad
MUD LOGGING UNIT:	Hot-wire and chromatograph, two man unit.
ELECTRIC LOGS:	All logs ran by Schlumberger 4215'-BHC Sonic, Dual Induction-SFL, FDC-CNL, Cyber-Look. NOTE: No logs ran from 4215 to 8751'. 8751' to 18,463' - BHC Sonic, FDC - CNL, Dual Laterolog - Micro SFL, 13,000 to 18,200' - Dipmeter, Fracture Identification, Velocity Survey.15,440 to 18,440' - Cyberlook
TOTAL DEPTH:	Drillers T.D. 18,450'. Loggers T.D. 18,463'.
DRILLING TIME:	6 months
BOTTOM FORMATION:	Cambrian Lynch
WELL STATUS:	Plugged and abandoned August 28th, 1982.
REMARKS:	No drill stem test or cores were conducted. No logs were ran between 4220' and 8751' because this section was all arkose clastics and wasn't worth the risk of logging.

SUMMARY AND CONCLUSIONS

The Mobil Oil - American Petrofina Elba Flats #1-30 was drilled to a total depth of 18,450 feet, with the primary purpose of testing the Mississippian carbonates of the Leadville formation for hydrocarbons. The McCracken sand of the Devonian Elbert formation was a secondary objective with possible pay zones also in the Cretaceous Dakota, Jurassic Morrison, Permian Cutler and the Pennsylvanian Paradox.

The well was spudded in the Cretaceous Mancos shale which was about 1900 feet thick and presented some drilling problems due to persistent sloughing until it was cased off at 4220'. Unexpectedly the Dakota sand came in about 500 feet high to the prognosis, with some good porosity, but no shows or gas. Because the formations were thicker than expected, each succeeding formation top lessened the 500 foot gap with the prognosis, so that by the time that the Moenkopi was reached, its top was running nearly even with the prognosis. After the Moenkopi, each succeeding top came in low to the prognosis, with the Leadville top running nearly 900 feet low. The Mesozoic sediments contained no sample shows and very trivial amounts of gas.

Due to the nearness of the Uncompahgre uplift, the Permian Cutler and the Pennsylvanian Hermosa group contained a predominance of arkose clastics interbedded with red and gray siltstones, black shales and gray dolomites. Although these sediments exhibited no sample shows, the Paradox of the Hermosa group did generate some minor methane gas shows, the largest being 121 units of gas. The arkose clastics were nearly 12,000 feet thick,highly compacted,with little or no porosity. These clastics were conducive to making fast stable hole, and were a major contributing factor in finishing the hole under budget and under schedule. The Paradox salt section also drilled very fast and presented no major drilling problems with the salt base mud.

The Leadville pay zone came in 892 feet low to the prognois. Although the porosity logs showed very little porosity, the samples exhibited scattered small vugs, as well as pin point porosity in the dolomites of the Leadville. There were traces of black dead stain, but no fluorescence or cut. Gas background remained a comparatively steady 8 to 12 units with no significant gas shows.

The McCracken sand also contained no significant gas and no sample shows. The sand was extremely tight and quartzitic with little or no porosity.

The well was "T.D.ed" in the dolomites of the Cambrian. Due to a lack of significant sample and gas shows and discouraging electric and porosity log results, the Elba Flats #1-30 was plugged and abandoned August 28th, 1982. Never the less,

SUMMARY AND CONCLUSIONS CONT'D

much valuable information was obtained from this well and will greatly contribute to future exploration in the area.

ZONES OF INTEREST

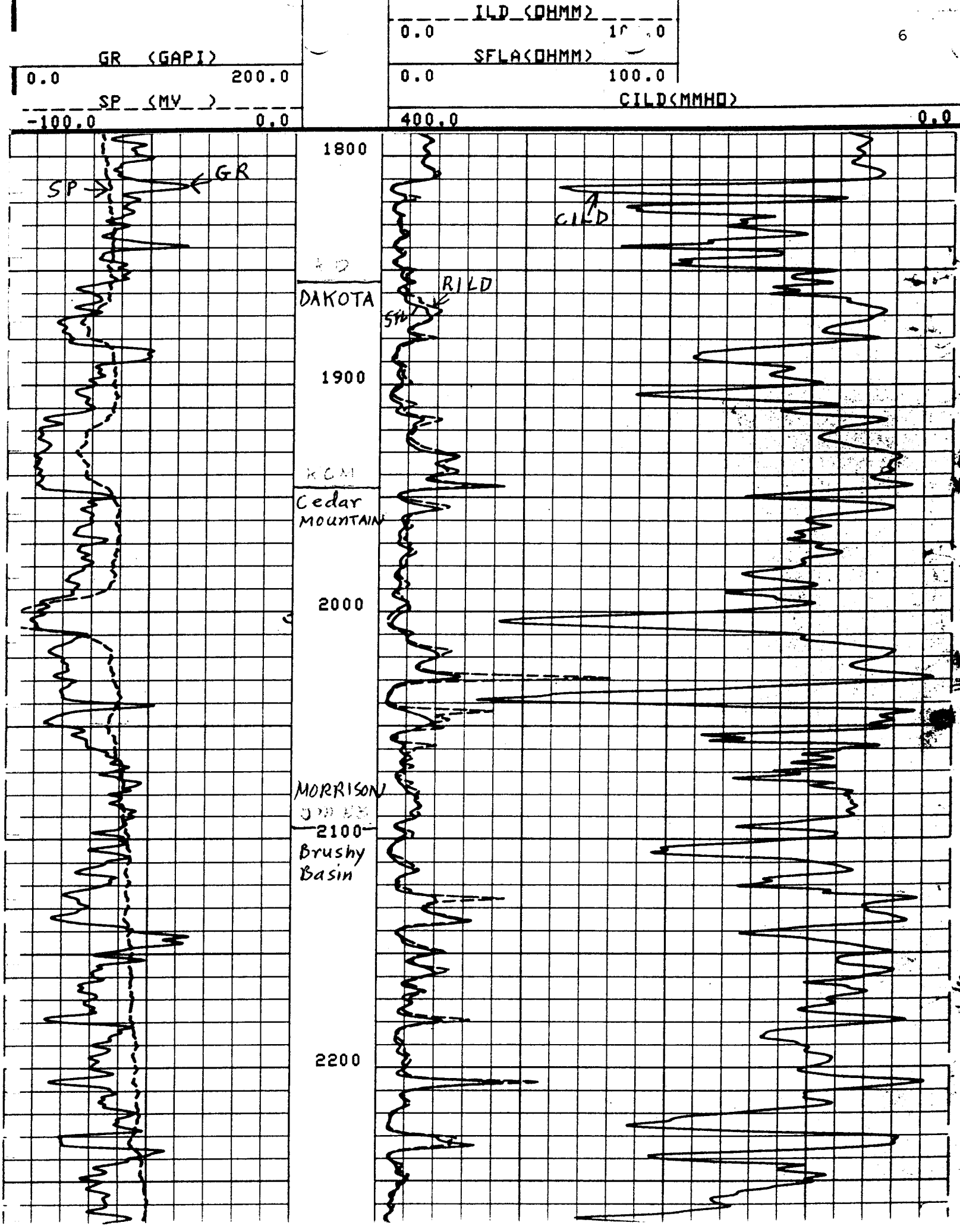
FORMATION	DEPTH	LITHOLOGY	GAS IN UNITS	FLOU. AND CUT	POR.
DAKOTA	1856 - 1946	Fg - Mg Ss.	1	None	G
PARADOX	13,920 - 935	Ark. blk. Sh., Ls.	25	None	P
PARADOX	14,410 - 420	Ark.	34	None	P
PARADOX	16,015 - 025	Ark., blk., Sh., Dolo.	121	None	?
PARADOX	16,410 - 420	Ark., Dolo.	32	None	?
LEADVILLE	17,427 - 805	Vuggy Dolo. & Ls.	12	None	P
MCCRACKEN	18,165 - 175	Fg - Cg Ss.	14	None	VP

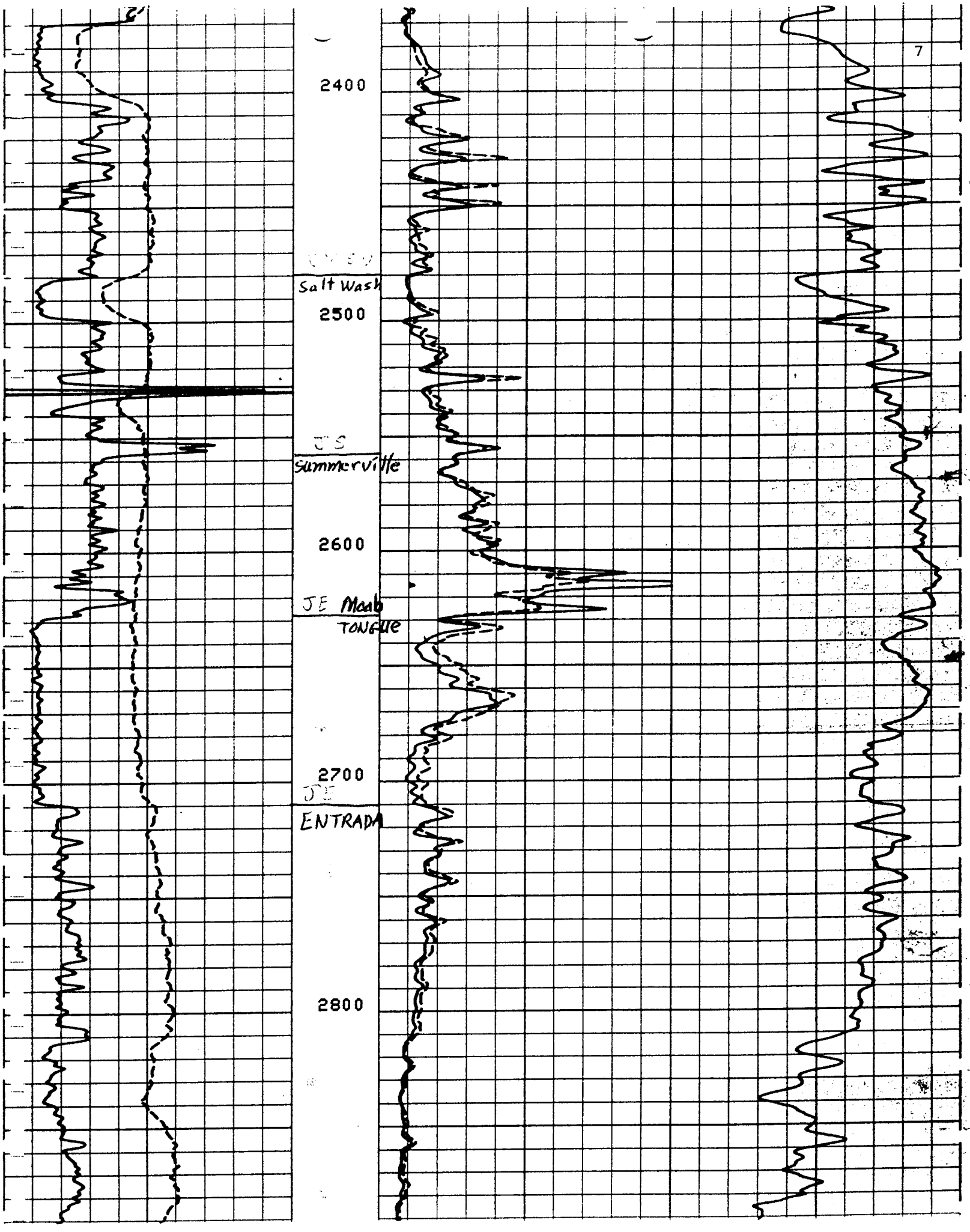
FORMATION TOPS

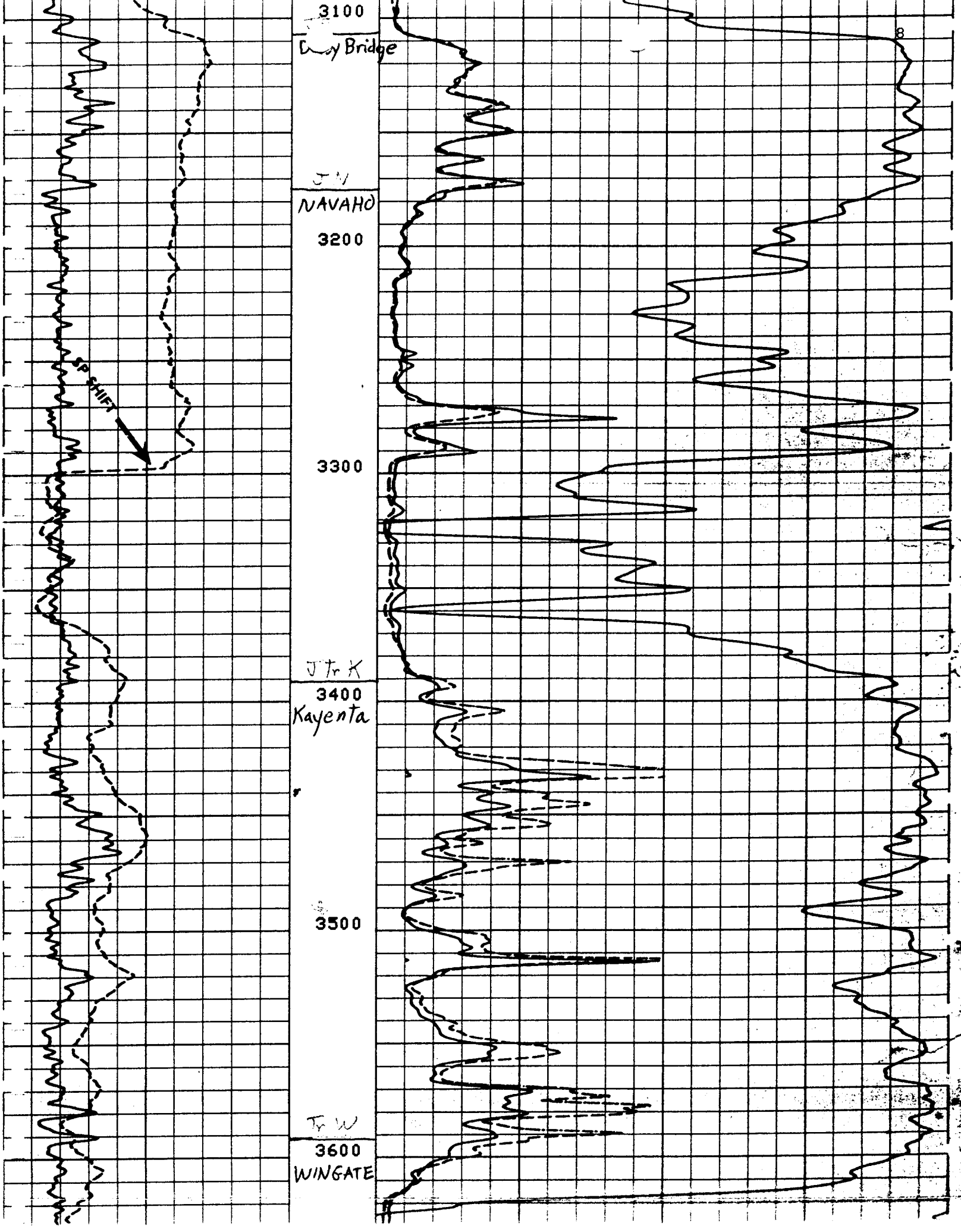
	FORMATION	SAMPLE TOP	LOG TOP	SUB SEA + or -
K	MANCOS	Surface	Surface	+ 4637 K.B.
K	DAKOTA	1919	1856	+ 2781
K	CEDAR MT.	1940	1946	+ 2691
Jm	BRUSHY BASIN	2100	2096	+ 2541
Jm	SALT WASH	2481	2480	+ 2157
J	SUMMERVILLE	2570	2557	+ 2080
Je	MOAB TONGUE	2630	2628	+ 2009
J	ENTRADA	2700	2710	+ 1927
JTr	NAVAHO	3175	3174	+ 1463
Tr	KAYENTA	3395	3391	+ 1246
Tr	CHINLE	3910	3910	+ 732
Tr	MOSSBACK mbr.	4110	4107	+ 530
Tr	MOENKOPI	4160	4157	+ 480
P	CUTLER	4610?	?	-
IP	HONAKER TRAIL	8330?	?	-
IP	PARADOX Fm.	13,330?	?	-
IP	PARADOX SALT	16,540	16,540	- 11,903
IP	BASE ofSALT	16,760	16,769	- 12,132
IP	MOLAS	17,220	17,250	- 12,613
M	LEADVILLE	17,420	17,427	- 12,790
D	OURAY	18,050	17,975?	- 13,338
D	ELBERT	18,130	18,068	- 13,431
D	MCCRACKEN	18,260	18,223	- 13,586
Є	LYNCH	18,350	18,310	- 13,673

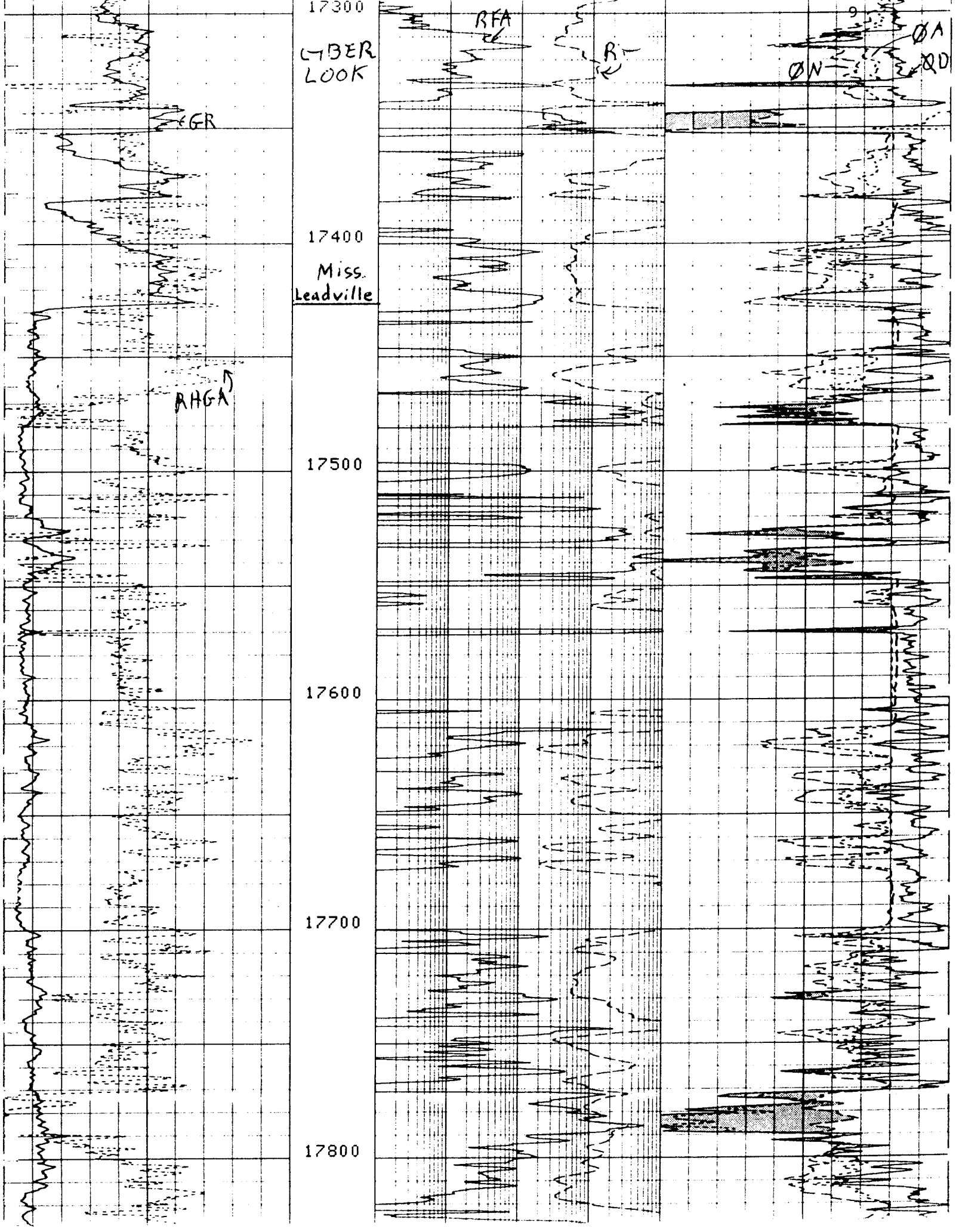
NOTE: Sample tops picked by wellsite geologist.

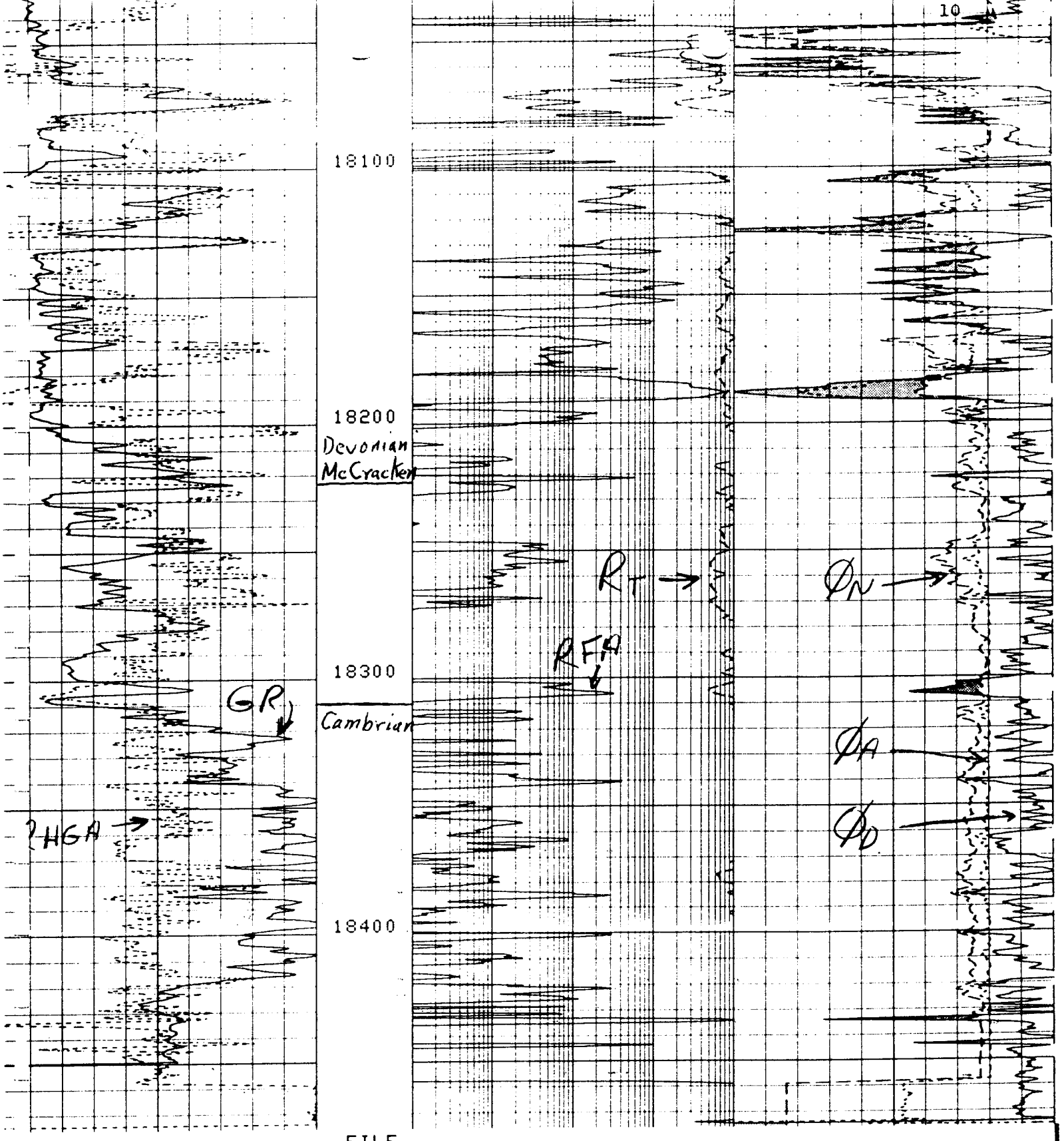
Log tops picked by Claudia Frahme, Mobil Oil Corp., Denver.


GR (GAPI)
0.0
200.0
SP (MV)
-100.0
0.0
ILD (OHMM)
0.0
SFLA(OHMM)
0.0
100.0
CILD(MMHO)
400.0
0.0
1800
SP
GR
CILD
RILD
DAKOTA
1900
Cedar
MOUNTAIN
2000
MORRISON
2100
Brushy
Basin
2200


2400
Salt Wash
2500
JS
Summerville
2600
JE Moab
TONGUE
2700
JE
ENTRADA
2800


3100
Bay Bridge
J N
NAVAHO
3200
SP SHIFT
3300
J Tr K
3400
Kayenta
3500
Tr W
3600
WINGATE


17300
GBER
LOOK
RFA
R
ØN
ØA
QD
GR
17400
Miss.
Leadville
RHGA
17500
17600
17700
17800



FILE

101

			PHIA(%)
			0.4000 -0.100
RHGA(G/C3)		RFA (OHMM)	DPHI(%)
2.5000 3.0000		0.0100 100.00	0.4000 -0.100
GR (GAPI)		RT (OHMM)	NPHI(%)
.0 150.00		0.1000 1000.0	0.4000 -0.100

DAILY DRILLING CHRONOLOGY

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
	12:01 A.M.	24 hours	
03-10-82	76	0	Rig up Parker Rig #177, NB #1, drlg. 26" hole 10:00 P.M.
03-11-82	113	37	Drlg., workdrag, drlg., rig service, survey, drlg. 26" hole.
03-12-82	428	315	Drlg., drill to 535', circ. and cond. hole, trip out, run 14 jnts of 20" csng., 94#-K-55, set at 532' K.B., Cement plug down 9:30 P.M. by Dowell. W.O.C.
03-13-82	535	107	W.O. cement, cut off csng.
03-14-82	535	0	Weld on head, nipple up B.O.P., and flow nipple, test Hydrill, drill shoe 2:00 P.M., drlg. and survey, drlg w/NB#2, 17 1/2 ".
03-15-82	690	155	Drlg. surveys, lost 200 BBLS mud, circ. LCM, drlg.
03-16-82	1067	377	Drlg., survey, rig service, trip out, pick up new B.H.A., trip in wash and ream 30', drlg., work tight hole, drlg. N.B. #3.
03-17-82	1296	229	Drlg., survey, work tight hole, drlg.
03-18-82	1596	300	Drlg. survey, drill to 1690', trip out, work on pump #1.
03-19-82	1690	94	Work on pump, trip in w/Bit #4, work tight hole, Kelly Backed out of Swivel, W.O. on Magna Flux, trip out, W.O. mech. and parts, change out swivel.
03-20-82	1690	0	Trip in N.B. #4, wash and ream to bottom, drlg. 2:00 P.M.
03-21-82	1739	49	Drlg., survey, drlg.
03-22-82	1972	233	Drlg., rig service, survey, drlg.
03-23-82	2115	143	Drlg., circ., drlg., rig service, drlg., circ., trip out, W.O. shock sub, trip in N.B. #5, ream 25', drlg.
03-24-82	2177	62	Drlg., rig service, survey, work tight hole, drlg.

DAILY DRILLING CHRONOLOGY CONT'D.

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
03-25-82	2322	145	Drlg., surveys, rig service, drlg.
03-26-82	2475	153	Drlg., survey, circ. for trip, trip out, work tight hole, pump out 5 jnts of pipe, trip on out, trip in w/NB-6.
03-27-82	2507	32	Trip in hole, wash and ream 67', drlg., survey, drlg.
03-28-82	2582	75	Drlg., short trip, rig service, drlg., survey, drlg.
03-29-82	2708	126	Drlg., survey, drill to 2788, trip out to check bit and B.H.A., change out swivel and blocks, trip in, ream 30', drlg.
03-30-82	2800	92	Drlg., survey, rig service, drlg., Lost all returns @ 2905, lost approx. 450 BBLS mud, build volume, drlg.
03-31-82	2914	114	Drlg., drill to 2954, trip out, work tight hole, trip out, inspect drill collars, trip in N.B. #7, wash and ream to bottom, drlg.
04-01-82	2969	55	Drlg., rig service, survey, drlg.
04-02-82	3160	191	Drlg., survey, short trip at 3236, drlg., repair rotary chain, drlg.
04-03-82	3289	129	Drlg., survey, drlg., survey, trip out, trip in w/N.B. #8, wash and ream 60' to bottom, drlg.
04-04-82	3423	134	Drlg., surveys, drlg.
04-05-82	3524	101	Drlg., short trip at 3585', wash and ream 47' to bottom, drlg.
04-06-82	3599	75	Drlg., drill to 3679, trip out bit #8.
04-07-82	3679	80	Pick up shock sub, trip in w/N.B. #9, ream 40', drlg, 3:15 A.M.
04-08-82	3774	95	Drlg., survey, drlg., rig service, drlg.
04-09-82	3875	101	Drlg., survey drill to 3964, trip out bit #9.
04-10-82	3964	89	Trip out, change out 6 point reamer, trip in w/N.B. #10, reaming.

DAILY DRILLING CHRONOLOGY CONT'D

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
04-11-82	3964	0	Reaming tight hole, ream to bottom, circ., trip out w/Bit #10, lay down 2 jnts, trip in w/N.B. #11, ream to bottom, drlg.
04-12-82	3978	14	Drlg., rig service, drlg., rig repair of rotary chain, drlg., survey.
04-13-82	4075	97	Drlg., rig service, survey, drlg.
04-14-82	4175	100	Drlg., survey, drlg., rig service, drill to 4220, circ. and cond. hole, short trip, circ. and ream tight hole, trip out, lay down stablz. trip in w/Bit #11, reaming.
04-15-82	4220	42	Ream tight hole, trip out for 6 point reamer, trip in, ream, circ.
04-16-82	4220	0	Circ., drop survey, trip out, rig up Schlumberger, begin logging.
04-17-82	4220	0	Finish logs, rig down loggers, trip in w/RR bit #11, reaming tight hole.
04-18-82	4220	0	Trip out, trip in, ream tight hole, circ. and cond., ream.
04-19-82	4220	0	Ream tight hole, trip out and in, reaming.
04-20-82	4220	0	Reaming, trip out, lay down 6 point reamer, trip in, reaming.
04-21-82	4220	0	Ream tight hole, trip in and out, circ. and cond., ream, short trip.
04-22-82	4220	0	Trip in, circ. and cond. hole, short trip, circ. hole clean, trip out.
04-23-82	4220	0	Rig up casing crew, run 98 joints of K-55, 13 3/8" casing to 4220, rig up cementers B.J. Hughes, run cement, plug down 7:00 P.M. W.O.C.
04-24-82	4220	0	W.O.C., nipple down, cut off casing, weld on head.
04-25-82	4220	0	Weld on head, pressure test well head, nipple up B.O.P. stack.

DAILY DRILLING CHRONOLOGY CONT'D.

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
04-26-82	4220	0	Pressure test Hydrill, choke valves, Kelly cocks, rig up Schlumberger, run Eastman Wipstock Gyro, restring blocks to 525 ton, 12 line.
04-27-82	4220	0	Nipple up flowline, trip in w/N.B. #12, pressure test casing, pump out cellar, trip in, tag cement, drill cement and plug.
04-28-82	4220	0	Drlg. cement, pressure test, drill cement and new hole to 4240 trip out after survey, pick up B.H.A., trip in w/N.B.#13, ream, drlg. at 8:30 P.M.
04-29-82	4304	84	Drlg., rig service, survey, drill to 4506, drop survey, trip out.
04-30-82	4506	202	Trip in w/N.B. #14, wash to bottom, drlg. 5:00 A.M., survey, drlg.
05-01-82	4683	177	Drlg., survey, rig service, drlg.
05-02-82	4912	229	Drlg., drill to 4965, drop survey, trip out, trip in w/N.B. #15, drlg. at 6:00 P.M.
05-03-82	5023	111	Drlg., rig service, drlg.
05-04-82	5217	194	Drlg., rig service, drlg., survey, drill to 5426, trip out.
05-05-82	5426	209	Trip in w/N.B. #16, wash and ream 120' to bottom, drilling 5:00 A.M.
05-06-82	5571	145	Drlg., rig service, drill to 5664, put on bell nipple, survey, drlg.
05-07-82	5747	176	Drlg., rig service, drill to 5868, trip out for hole in pipe, trip in w/N.B. #17 and 6 point reamer.
05-08-82	5868	121	Trip in, ream 90' to bottom, drlg., rig service, survey, drlg.
05-09-82	6128	260	Drlg., trip out for hole in pipe at 6201, change pipe and bit, trip in w/N.B. #18, ream 55' to bottom, drilling at 6:00 P.M.

DAILY DRILLING CHRONOLOGY CONT'D.

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
05-10-82	6258	130	Drlg., rig service, drlg., trip for hole in pipe at 6339, change out some D.C. pipe trip in.
05-11-82	6339	81	Unplug jets, drlg., trip out for hole in pipe, inspect drill collars, trip in.
05-12-82	6420	81	Drlg., rig service, trip out for hole in pipe, inspect drill collars, trip in hole.
05-13-82	6597	177	Drlg., rig service, run survey.
05-14-82	6752	155	Drlg., trip out with bit #18, trip in with bit #19 and wash to bottom, rig service.
05-15-82	6823	171	Drlg., rig service.
05-16-82	7132	209	Drlg., rig service, run survey, circ.
05-17-82	7259	127	Drlg., trip out with bit #19, trip in hole with bit #20, run multi shot, fish for multi shot, wash and ream.
05-18-82	7425	166	Drlg., replace compound oiler chain, rig service.
05-19-82	7581	156	Drlg., rig service, wireline survey, check pumps.
05-20-82	7721	140	Drlg., rig service, trip out for hole in pipe, run in hole with new drilling assembly, bit wash and ream.
05-21-82	7788	67	Drlg., rig service, survey, trip for bit #21, trip in hole with bit #22, wash and ream.
05-22-82	7982	194	Drlg., rig service, drlg.
05-23-82	8090	108	Drlg., trip out for hole in pipe, no washout, run McCullough casing log, change to bit #23, trip in hole.
05-24-82	8116	26	Trip in hole, ream, drlg, lost pump pressure, trip out for hole in pipe, replace drill collars, trip in.
05-25-82	8315	199	Drlg., rig service, drlg.

DAILY DRILLING CHRONOLOGY CONT'D.

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
05-26-82	8508	193	Drlg., rig service, rig survey, drlg.
05-27-82	8693	185	Drlg., rig service, drlg., circ. at 8772, trip out.
05-28-82	8772	79	Trip in w/N.B.#24, wash and ream to bottom, circ. and cond. hole.
05-29-82	8772	0	Circ. and cond. hole, trip out, rig up lay down machine, lay down 9" collars, rig up casing crew, run 203 joints of 9 5/8", 47# pipe set at 8772, rig up cementers, Halliburton.
05-30-82	8772	0	Run cement, cement plug down at 4:00 A.M., nipple down well head, cut off casing, nipple up B.O.P.
05-31-82	8772	0	Test B.O.P., trip in removing drill pipe rubbers, trip out laying down drill pipe, pick up 18 6 3/4" drill collars.
06-01-82	8772	0	Trip in hole w/N.B. #25, pick up new 5" drill pipe, tag top of cement at 8711, drill cement and shoe, drilling out new 8 1/2" hole at 7:00 P.M.
06-02-82	8810	38	Drlg., rig service, drill to 8893, circ. hole, trip out, run Gyro survey, trip in w/N.B. #26.
06-03-82	8893	83	Drlg 2:30 A.M., drill to 9034, trip out to check bit.
06-04-82	9034	141	Trip out, missing cone off bit, slip and cut drlg. line, trip in hole w/8" magnet and junk sub, work on junk , trip out.
06-05-82	9034	0	Trip on out w/magnet, trip in w/N.B. #27 6 point reamer, ream 90' to bottom, drlg. 2:A.M., drill to 9184, lost pump press., trip out.
06-06-82	9184	150	Trip out, inspect B.H.A. and drill pipe, lay down 2 bad D.C., trip in w/N.B.#28, drlg. at 10:00A.M., rig service, drlg.

DAILY DRILLING CHRONOLOGY CONT'D.

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
06-07-82	9311	127	Drlg., rig service, drill to 9539, trip out after drop survey.
06-08-82	9539	228	Trip on out, lay down junk sub and reamer, trip in w/N.B. #29, ream 90' to bottom, drlg. @ 10:00A.M.
06-09-82	9670	131	Drlg., rig service, drlg.
06-10-82	9904	234	Drlg., rig service, drlg.
06-11-82	10,119	215	Drlg., rig service, drlg.
06-12-82	10,313	194	Drlg., drill to 10,351, trip out, test B.O.P., trip in w/N.B. #30, ream 120', run survey, drlg. @ 11:00 P.M..
06-13-82	10,356	43	Drlg., rig service, survey, drlg.
06-14-82	10,503	147	Drlg., survey, drill to 10,649, trip out.
06-15-82	10,649	146	Trip out, trip in w/N.B. #31, drlg. at 8:00 A.M., survey, drlg.
06-16-82	10,827	178	Drlg., survey, drill to 10,939, circ., trip out, change B.H.A., trip in w/N.B. #32.
06-17-82	10,939	112	Trip in, drlg., @ 3:00 A.M., survey, drlg.
06-18-82	11,152	213	Drlg., survey, drlg.
06-19-82	11,356	204	Drill to 11,422, circ., trip out, trip in w/N.B. #33, drlg. @ 9:00 P.M.
06-20-82	11,444	88	Drlg., rig service, survey, drlg.
06-21-82	11,690	246	Drlg., survey, rig service, drlg.
06-22-82	11,893	203	Drill to 12,023, circ., drop survey, trip out.
06-23-82	12,023	130	Trip in w/N.B. #34, ream to bottom, drlg. @ 9:40 A.M.
06-24-82	12,205	182	Drlg., surveys, rig service, drlg.

DAILY DRILLING CHRONOLOGY CONT'D.

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
06-25-82	12,476	271	Drlg., survey, drlg., drill to 12,595, circ., drop survey, trip out, inspect D.C., laydown 2 D.C.,
06-26-82	12,595	119	Trip in w/N.B. #35, wash to bottom, drlg. @ 7:00 A.M., survey, drlg.
06-27-82	12,763	168	Drlg., rig service, survey, drlg.
06-28-82	12,997	234	Drlg., rig service, surveys, drlg.
06-29-82	13,237	240	Drlg., surveys, rig service, drlg.
06-30-82	13,420	183	Drlg., drill to 13,513, circ., survey, trip out, slip and cut drlg. line.
07-01-82	13,513	93	Test B.O.P. trip in hole w/N.B. #36 ream to bottom, drlg. @ 8:00 A.M.
07-02-82	13,657	144	Drlg., rig service, survey, drlg.
07-03-82	13,858	201	Drlg., rig service, survey, drlg.
07-04-82	14,033	175	Drill to 14,131', circ., survey, trip out, lay down 21 jnts of pipe.
07-05-82	14,131	98	Trip in w/N.B. #37, ream 150' to bottom, drlg. @ 6:00 A.M.,
07-06-82	14,271	140	Drlg., rig service, survey, drlg.
07-07-82	14,426	155	Drlg., rig service, drlg.
07-08-82	14,605	179	Drlg., drill to 14,656', pump pill, drop survey, trip out, test B.O.P.
07-09-82	14,656	51	Trip in w/N.B. #38, drlg. @ 8:00 A.M., rig service, drlg.
07-10-82	14,789	133	Drlg., rig service, survey, drlg.
07-11-82	14,934	145	Drlg., rig service, survey, drlg.
07-12-82	15,088	154	Drlg., rig service, drill to 15,177', drop survey, circ and cond. hole, trip out of hole to change out, motors, pumps, and drawworks.

DAILY DRILLING CHRONOLOGY CONT'D.

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
07-13-82	15,177	89	Inspect B.H.A., test B.O.P., trip in w/N.B. #39 to 8,750', Rig on standby @ 8:30 A.M., change out larger motors, pumps, and drawworks, nipple up same, hook up lines.
07-14-82	15,177	0	Continue to rig up motors, pumps, and drawworks, re-plumb lines, move mud pits.
07-15-82	15,177	0	Continue to rig up motors, pumps, and drawworks, circ., @8750, trip in w/N.B. #39, wash and ream 90' to bottom, circ., drilling @ 11:00 P.M.
07-16-82	15,191	14	Drlg., rig service, survey, drlg.
07-17-82	15,353	162	Drlg., rig service, survey, drlg.
07-18-82	15,526	173	Drlg., rig service, survey, drill to 15,714', trip out.
07-19-82	15,714	188	Trip out, change B.H.A., test B.O.P., slip and cut drlg. line.
07-20-82	15,714	0	Trip in w/N.B. #40, circ., wash and ream to bottom, drlg. at 2:00 A.M.
07-21-82	15,866	152	Drlg., rig service, survey, drlg.
07-22-82	16,062	196	Drlg., rig service, drill to 16,156, circ., drop survey, trip out, dump mud pits, mix up salt mud, trip in.
07-23-82	16,156	94	Trip in w/N.B. #41, change mud from LSND to salt mud drlg. @ 10:00 A.M. rig repair on rotary sprocket, drlg.
07-24-82	16,238	82	Drlg., rig service, B.O.P. drill, drlg.
07-25-82	16,398	160	Drlg., rig repair on pump clutch, survey, drlg.
07-26-82	16,516	118	Drlg., circ. up drill break @ 16,540 drill to 16,665, trip out.
07-27-82	16,665	149	Trip out, test B.O.P., slip and cut drlg. line, change bit and reamers, trip in w/N.B. #42, work tight spots, circ., wash and ream.

DAILY DRILLING CHRONOLOGY CONT'D.

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
07-28-82	16,665	0	Wash and ream to bottom, drlg. @ 4:00 A.M., drill to 16,688, lost 550 # pump pressure, trip out to check pipe for holes.
07-29-82	16,688	23	Trip out, check pipe and B.H.A., 3 holes in monel, 2 bad D.C. pick up new D.C. and jars, trip in w/R.R. B#42, drilling 7:00 P.M.
07-30-82	16,711	23	Drlg., survey, rig service, drlg.
07-31-82	16,807	96	Drlg., survey, rig service, drill to 16,855, circ., trip out.
08-01-82	16,855	48	Trip out, pick up monel drill collar, trip in w/N.B. #43, wash and ream 100' to bottom, drlg. at 6:00 P.M..
08-02-82	16,884	29	Drlg., rig service, drlg.
08-03-82	16,984	100	Drlg., rig service, survey, circ. and unplug jet, drlg.
08-04-82	17,089	105	Drlg., rig service, drill to 17,158', circ., pump pill, trip out.
08-05-82	17,158	69	Trip out, test B.O.P., cut and slip drlg. line, trip in w/N.B. #44, rig service, fill drill pipe, run temp. tool, drlg. at 11:30 P.M.
08-06-82	17,160	2	Drlg. rig service, drlg.
08-07-82	17.250	90	Drlg., rig service, tele-drift survey, drlg.
08-08-82	17,326	76	Drlg., drill to 17,356, circ 3 hrs. for smpls, drop survey, trip out.
08-09-82	17,356	30	Trip out, lost roller and pin off three point reamer, McCullough ran csng. inspection log, tool malfunction, build jet basket, trip in.
08-10-82	17,356	0	Trip in w/junk basket, fish for roller and pin w/junk basket, trip out, no fish, rig up Gearhart and run csng inspection log, no good.

DAILY DRILLING CHRONOLOGY CONT'D.

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
08-11-82	17,356	0	Pick up Globe basket, trip in, ream and fish w/Globe basket, trip out, no fish, laydown basket, rig up McCullough and run csng log.
08-12-82	17,356	0	Finish csng inspection log, slip and cut drlg. line, trip in w/R.R. #44, rig service, ream, drill on junk to 17,359, circ., trip out.
08-13-82	17,359	3	Pick up tools for press. testing casing, trip in set packer @ 4007', test to 3000 # for 10 min., csng ok trip out, make up B.H.A., trip in w/N.B. #45, wash and ream 115', drilling @ 4:00 P.M.
08-14-82	17,385	26	Drlg., rig service, drlg.
08-15-82	17,596	211	Drlg., circ smpls @ 17,615, drlg. rig service, circ smpls @ 17.800.
08-16-82	17,814	218	Drlg., rig service, drill to 17,939, circ. 3 hrs., trip out.
08-17-82	17,939	125	Trip out, rig up loggers, Schlumberger logging, rig down logger test B.O.P., inspect D.C., cut and slip drlg. line.
08-18-82	17,939	0	Trip in w/N.B. #46, break circ, trip in, ream, drlg. 11:15 A.M.
08-19-82	18,056	117	Drlg., drill to 18,129, circ., trip out, dress new bit.
08-20-82	18,129	73	Trip in w/N.B.#47, wash and ream 90', drlg. @ 2:30 P.M. drill to 18,153, high bit torque, trip out.
08-21-82	18,153	24	Trip out, wait on reamer, trip in w/N.B. #48, change bit size to 7 7/8", ream to bottom, drlg. @ 10:45 P.M.
08-22-82	18,165	12	Drlg., rig service, drlg., drill to 18,293, circ., trip out.
08-23-82	18,293	128	Trip out, dress N.B. #49, trip in, ream 140', drlg. at 6:00 P.M.
08-24-82	18,338	45	Drlg., rig service, drill to 18,450' @ 2:45 P.M., circ. and cond. hole, trip out.

DAILY DRILLING CHRONOLOGY CONT'D.

DATE	DEPTH	FOOTAGE	RIG ACTIVITY
08-25-82	18,450	T.D.	Trip out, rig up Schlumberger, run 'E' Logs.
08-26-82	18,450		Logging.
08-27-82	18,450		Finish logging, wait on orders to plug hole.

BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTH IN	OUT	FOOTAGE	HOURS
1	26"	HTC	retip	76	535	459	33 1/2
2	17 1/2"	HTC	OSC retip	535	1171	636	37 3/4
3	17 1/2"	HTC	DTJ retip	1171	1690	519	33 3/4
4	17 1/2"	Reed	S53J	1690	2160	470	63 3/4
5	17 1/2"	HTC	J-22	2160	2507	347	53 1/4
6	17 1/2"	STC	2JS	2507	2954	447	74 -
7	17 1/2"	Sec	S84F	2954	3399	445	49 3/4
8	17 1/2"	Sec	S88	3399	3679	280	67 1/2
9	17 1/2"	Reed	S53	3679	3964	285	63 3/4
10	17 1/2"	HTC	X33	3964	3964	ream	-
11	17 1/2"	Sec	S88	3964	4220	256	57 1/4
12	12 1/4"	STC	DSJ	4220	4240	20	2 1/2
13	12 1/4"	Reed	HS51J	4240	4506	266	15 3/4
14	12 1/4"	STC	F-3	4506	4965	459	50 -
15	12 1/4"	Reed	HS51	4965	5426	461	50 3/4
16	12 1/4"	Reed	FP-52J	5426	5868	442	56 3/4
17	12 1/4"	Sec	S84F	5868	6201	333	28 1/2
18	12 1/4"	Sec	S84F	6201	6752	551	63 -
19	12 1/4"	Sec	S84F	6752	7259	507	53 3/4
20	12 1/4"	STC	F-3	7259	7721	462	53 1/2
21	12 1/4"	STC	V2HJ	7721	7788	67	12 1/4
22	12 1/4"	STC	F-2	7788	8090	302	37 1/2
23	12 1/4"	Reed	F-P52	8090	8772	682	84 3/4
24	12 1/4"	STC	SDGH	8772	8772	Clean out hole	
25	8 1/2"	Sec	M44N	8772	8893	121	15 -
26	8 1/2"	HTC	J-22	8893	9034	141	16 1/2
27	8 1/2"	STC	F-5	9034	9184	150	16 -
28	8 1/2"	STC	F-5	9184	9539	355	35 -
29	8 1/2"	Sec	M89TF	9539	10,351	812	90 -
30	8 1/2"	STC	F-5	10,649	10,649	298	42 1/4
31	8 1/2"	Reed	FP62	10,649	10,939	290	24 1/4
32	8 1/2"	STC	F-5	10,939	11,422	483	46 1/2
33	8 1/2"	STC	F-5	11,422	12,023	601	59 1/4
34	8 1/2"	HTC	J-55R	12,023	12,597	574	44 1/4

BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTH IN	OUT	FOOTAGE	HOURS
35	8 1/2"	SEC	M89TF	12,597	13,513	916	89 3/4
36	8 1/2"	Reed	FP63J	13,513	14,131	618	68 1/4
37	8 1/2"	Reed	FP63J	14,131	14,656	525	70 1/4
38	8 1/2"	STC	F-5	14,656	15,177	521	75 1/2
39	8 1/2"	STC	F-57	15,177	15,714	537	69 3/4
40	8 1/2"	HTC	J-77	15,714	16,156	442	55 1/2
41	8 1/2"	HTC	J-77	16,156	16,665	509	73 1/4
42	8 1/2"	SEC	H88F	16,665	16,855	190	57 3/4
43	8 1/2"	SEC	M89TF	16,855	17,158	303	67 3/4
44	8 1/2"	HTC	J55R	17,158	17,359	201	58 1/4
45	8 1/2"	SEC	F-5	17,359	17,939	580	69 1/4
46	8 1/2"	STC	F-5	17,939	18,129	190	25 -
47	8 1/2"	SEC	H88-F	18,129	18,153	24	4 1/4
48	7 7/8"	Reed	HPMH-J	18,153	18,293	140	17 1/4
49	7 7/8"	STC	F-9	18,293	18,450	157	20 1/2
T.D.							

MUD RECORD

NOTE: Mud up out from under surface csng. at 532' on 3-15-82

DATE	DEPTH	WT.	VIS.	Y.P.	GEL.	FILT.	CK	SOLIDS	P.H.	CHL	COST
03-15-82	715	9.0	35	9	0/2	17.0	2	4.8	7.5	240	4721
03-16-82	1134	8.9	42	10	2/4	14.8	1	4.2	9.0	180	11,042
03-17-82	1381	8.9	43	9	1/4	15.2	1	4.2	9.5	240	12,688
03-18-82	1642	8.9	42	10	2/5	12.8	1	4.2	9.5	280	14,632
03-19-82	1690	9.0	39	10	2/-	14.8	1	5.0	9.0	240	15,842
03-20-82	1684	8.9	47	14	3/-	15.2	1	4.8	9.5	280	15,842
03-21-82	1818	9.1	46	16	4/9	14.4	2	5.0	10.0	600	17,177
03-22-82	2018	9.0	46	16	5/10	8.8	2	4.5	10.0	600	17,965
03-23-82	2148	9.1	52	17	6/10	8.0	2	5.0	10.0	600	19,628
03-24-82	2213	9.1	54	19	6/13	8.0	2	5.0	10.0	-	20,220
03-25-82	2353	8.9	40	10	4/7	8.8	2	4.0	10.0	600	20,921
03-26-82	2506	9.0	45	14	3/7	9.6	2	4.0	10.0	600	23,783
03-27-82	2516	8.9	94	27	4/10	9.6	2	4.0	9.5	500	24,506
03-28-82	2622	8.9	52	18	5/9	9.6	2	4.0	10.0	600	25,731
03-29-82	2744	9.0	50	19	6/13	8.8	2	5.0	10.0	600	26,160
03-30-82	2843	9.1	55	15	5/12	8.8	2	5.5	10.0	500	26,480
03-31-82	2946	8.8	65	20	5/-	8.8	2	3.0	9.0	600	32,699
04-01-82	3026	9.0	51	19	4/-	10.4	2	5.0	10.0	600	34,700
04-02-82	3212	8.9	44	13	3/8	9.6	2	4.0	10.5	500	35,877
04-03-82	3372	8.8	50	18	3/8	9.6	2	3.0	10.0	600	37,613
04-04-82	3444	8.8	63	15	3/7	10.4	2	3.0	10.0	580	38,771
04-05-82	3548	8.9	56	14	2/9	12.2	2	4.0	10.0	580	39,893
04-06-82	3615	8.9	57	15	3/8	12.8	2	4.0	10.0	620	41,305

MUD RECORD CONT'D

DATE	DEPTH	WT.	VIS.	Y.P.	GEL.	FILT.	CK	SOLIDS	P.H.	CHL	COST
04-07-82	3686	8.8	63	14	2/7	13.6	2	3.4	10.5	580	42,301
04-08-82	3796	9.0	56	13	3/10	12.8	2	5.0	10.0	600	43,411
04-09-82	3898	9.0	54	14	3/9	11.2	2	5.0	11.0	580	45,166
04-10-82	3964	8.9	55	15	2/8	12.0	2	4.2	11.0	580	47,048
04-11-82	3964	8.9	54	14	2/8	12.8	2	4.2	11.0	620	47,626
04-12-82	3996	8.9	54	12	3/7	12.0	2	4.2	10.5	600	49,059
04-13-82	4090	9.0	58	13	3/8	12.8	2	5.0	11.0	600	50,095
04-14-82	4199	9.0	59	15	3/8	12.4	2	5.0	10.5	620	51,726
04-15-82	4220	9.1	63	14	4/9	9.2	2	5.6	11.0	600	53,640
NOTE: From April 15th to April 27th the hole was logged and 13 3/8" csng was set.											
04-28-82	4193	9.1	40	9	8/-	7.2	1	8.0	11.0	2100	95,096
04-29-82	4342	8.8	37	7	8/35	8.4	1	4.0	11.5	2000	97,941
04-30-82	4508	8.8	38	7	9/38	9.2	2	4.0	10.2	1580	100,833
05-01-82	4729	8.8	37	5	1/4	6.6	1	5.0	10.9	1580	101,833
05-02-82	4943	8.9	38	6	1/3	8.8	1	4.5	11.3	1560	104.644
05-03-82	5066	8.8	37	5	1/-	9.0	1	5.0	11.4	1420	107,185
05-04-82	5270	8.9	43	6	0/3	8.4	1	4.5	11.5	1600	109,454
05-05-82	5426	8.9	44	6	1/3	8.8	1	4.2	11.2	1600	110,689
05-06-82	5622	9.0	39	5	0/3	8.6	1	5.0	11.3	1900	112,743
05-07-82	5789	9.0	40	5	1/4	8.8	1	3.5	11.7	1700	114,584
05-08-82	5907	9.0	36	2	3/12	10.8	1	5.0	11.1	1300	115,550
05-09-82	6177	9.0	39	5	5/17	12.8	2	4.0	11.0	1200	116,697
05-10-82	6302	8.9	40	3	5/30	13.0	2	4.0	10.6	1400	117,535
05-11-82	6377	8.9	42	11	2/7	11.9	1	4.0	10.1	820	117,907
05-12-82	6450	8.8	47	8	2/7	12.4	1	3.5	10.0	780	118,645

MUD RECORD CONT'D

DATE	DEPTH	WT.	VIS.	Y.P.	GEL.	FILT.	CK	SOLIDS	P.H.	CHL	COST
05-13-82	6650	8.8	40	5	6/21	15.2	2	3.5	9.3	1400	119,915
05-14-82	6761	8.9	42	6	4/22	16.8	2	3.0	10.3	1800	121,466
05-15-82	6984	8.8	35	5	5/28	14.0	1	3.0	11.2	1600	122,429
05-16-82	7183	8.7	37	5	7/30	14.0	2	3.0	11.6	1500	124,281
05-17-82	7273	8.8	39	5	4/20	15.6	2	3.0	10.9	1700	125,684
05-18-82	7468	8.8	41	5	0/4	16.0	1	3.0	11.4	1400	126,750
05-19-82	7635	8.8	36	6	1/3	16.4	1	3.2	11.0	1480	127,911
05-20-82	7721	8.8	36	4	0/2	15.8	1	3.2	11.4	900	128,955
05-21-82	7824	8.8	38	6	1/3	16.0	1	3.4	11.2	840	129,686
05-22-82	7982	8.7	38	3	1/5	15.2	2	2.8	11.5	1140	131,415
05-23-82	8090	8.7	34	3	0/3	16.0	1	2.6	11.2	1280	132,306
05-24-82	8116	8.8	36	3	1/4	15.4	2	3.6	11.4	1400	132,610
05-25-82	8315	8.7	40	7	1/4	15.8	2	2.8	11.6	1320	133,745
05-26-82	8550	8.7	40	6	1/4	15.4	2	2.8	11.4	1240	135,008
05-27-82	8735	8.7	38	7	1/3	14.8	2	3.0	11.3	880	136,209
05-28-82	8772	8.7	34	3	0/2	16.4	1	3.0	11.4	920	137,148

NOTE: May 29th to May 31st, 9 5/8" casing was set at 8772

MUD CONT'D ON NEXT PAGE

MUD RECORD CONT'D

DATE	DEPTH	WT.	VIS	P.V.	Y.P.	GEL	FIL	CK	SOLIDS	PH	CHL	COST
06-01-82	8,772	8.7	41	9	6	2/6	22.4	2	3.0	10.3	1180	-
06-02-82	8,855	8.6	30	4	2	-	26.0	2	2.2	10.2	1880	137,737
06-03-82	8,925	8.7	32	7	4	0/2	18.2	1	2.8	10.4	1000	139,429
06-04-82	9,034	8.7	33	7	3	0/2	18.8	1	3.0	10.5	980	141,388
06-05-82	9,069	8.7	35	7	4	0/4	16.8	1	3.0	10.2	960	141,403
06-06-82	9,184	8.7	34	8	3	0/3	17.2	1	3.0	10.3	1100	142,717
06-07-82	9,378	8.7	37	8	3	1/4	18.2	1	3.0	10.4	840	143,684
06-08-82	9,539	8.7	36	9	4	0/4	18.0	1	3.0	10.6	1120	145,313
06-09-82	9,727	8.7	38	9	4	4/20	16.0	1	2.8	10.6	1800	146,015
06-10-82	9,958	8.6	37	8	2	2/20	16.4	1	2.0	10.9	1700	147,040
06-11-82	10,175	8.6	35	7	3	3/18	16.8	1	2.0	11.1	1500	147,964
06-12-82	10,351	8.5	37	8	3	3/22	17.6	2	1.3	11.4	1400	149,116
06-13-82	10,384	8.5	39	10	3	4/24	16.4	1	1.3	11.3	2100	149,854
06-14-82	10,550	8.6	38	10	7	4/32	16.0	2	2.0	12.0	1300	151,184
06-15-82	10,649	8.7	38	9	4	3/20	16.0	2	2.8	12.1	1400	152,891
06-16-82	10,901	8.6	41	12	4	3/35	18.0	2	2.0	11.9	1200	153,618
06-17-82	10,976	8.6	41	12	8	4/24	19.8	2	2.0	11.9	1700	154,700
06-18-82	11,210	8.6	37	9	5	4/30	19.6	2	2.0	11.8	1800	156,099
06-19-82	11,409	8.7	39	9	6	4/32	18.8	2	2.8	12.3	1800	157,037
06-20-82	11,516	8.6	38	9	5	3/12	18.4	2	2.0	11.5	1400	157,466
06-21-82	11,726	8.6	37	9	5	3/22	20.0	2	2.0	12.0	1300	158,217
06-22-82	11,953	8.7	41	11	5	4/30	19.6	2	2.8	11.6	1100	159,101
06-23-82	12,023	8.7	35	7	2	2/12	18.2	2	2.8	11.6	1100	159,997
06-24-82	12,263	8.7	35	10	3	3/15	19.2	2	2.8	11.4	1200	160.905
06-25-82	12,400	8.7	38	9	6	4/22	17.2	2	2.8	11.4	1500	162,439
06-26-82	12,597	8.8	37	8	3	2/10	16.2	2	3.5	11.2	1300	163,261

MUD RECORD CONT'D

DATE	DEPTH	WT.	VIS	P.V.	Y.P.	GEL	FIL	CK	SOLIDS	PH	CHL	COST
06-27-82	12,879	8.6	37	8	4	4/16	17.6	2	2.0	11.4	1400	164,445
06-28-82	13,060	8.6	40	13	3	4/24	16.4		2.0	11.4	1200	166,057
06-29-82	13,290	8.7	37	9	5	5/17	16.2		2.0	11.4	1200	167,633
06-30-82	13,468	8.6	46	15	10	6/44	16.5		1.0	11.0	900	168,229
07-01-82	13,513	8.7	43	14	8	4/15	17.0		1.0	11.0	1000	168,699
07-02-82	13,703	8.6	47	17	10	6/37	16.0		2.0	11.0	1000	170,510
07-03-82	13,897	8.6	47	19	10	6/34	15.0		2.0	11.0	1000	172,713
07-04-82	14,096	8.6	54	16	12	8/40	14.0		2.0	11.0	1000	174,866
07-05-82	14,131	8.7	62	23	10	5/42	14.0		2.5	11.0	1000	176,040
07-06-82	14,314	8.7	52	18	9	8/42	12.0		2.0	11.0	1000	179,564
07-07-82	14,479	8.7	48	18	6	5/42	12.8		2.0	10.8	1400	181,066
07-08-82	14,640	8.7	49	43	8	5/44	14.0		2.0	11.0	1200	193,014
07-09-82	14,656	8.7	40	12	6	5/24	11.6	2	2.0	10.5	1100	193,262
07-10-82	14,825	8.7	43	14	7	5/22	11.2		2.0	10.2	1200	198,659
07-11-82	14,978	8.7	47	17	8	6/25	10.0		2.0	10.2	1100	204,156
07-12-82	15,127	8.7	50	18	12	10/30	14.0		2.0	10.5	1100	205,368
07-13-82	15,177	8.7	50	18	12	10/30	14.0		2.0	10.5	1100	206,475
07-14-82	15,177	No report change out motors, pumps and drawworks										
07-15-82	15,177	No report										
07-16-82	15,227	8.8	49	17	14	9/28	12.0		2.0	8.7	1600	206,536
07-17-82	15,393	8.8	50	16	9	12/48	14.4	3	2.0	9.3	1200	207,874
07-18-82	15,578	8.7	50	16	12	9/52	15.2	3	2.0	10.2	1100	208,929
07-19-82	15,714	8.8	44	13	9	7/45	16.0	3	2.0	10.5	1300	210,425
07-20-82	15,737	8.6	57	20	15	11/52	15.0	3	2.0	9.8	1400	210,448
07-21-82	15,922	8.7	55	18	12	10/68	16.0	3	2.0	10.3	1400	211,488

MUD RECORD CONT'D

DATE	DEPTH	WT.	VIS	P.V.	Y.P.	GEL	FIL	CK	SOLIDS	PH	CHL	COST
07-22-82	16,113	8.6	59	17	15	12/72	19.9	3	2.0	10.6	1,400	212,525
07-23-82	16,156	Change out mud system from LSND to saturated salt brine-aqua-gel										
07-24-82	16,284	9.7	37	10	10	10/21	64	3	1.5	7.2	146,000	229,130
07-25-82	16,424	10.0	37	9	6	6/30	44		2.2	8.0	180,000	242,556
07-26-82	16,538	10.0	37	9	5	4/20	40		1.0	8.0	185,000	257,310
07-27-82	16,665	10.1	38	9	4	4/20	43		1.6	7.0	189,000	264,617
07-28-82	16,675	10.2	43	18	11	18/52	46	5	1.7	7.0	186,000	266,936
07-29-82	16,688	10.3	44	15	7	8/30	40		3.2	7.5	189,000	275,912
07-30-82	16,769	10.4	48	23	14	-	40		5.2	7.5	189,000	279,856
07-31-82	16,817	10.2	49	22	9	4/13	28	6	4.0	7.4	183,000	293,235
08-01-82	16,855	10.5	36	10	2	4/12	14.8	2	9.5	6.8	190,000	304,379
08-02-82	16,908	10.6	48	14	5	3/9	15.2	2	9.0	7.0	187,000	305,165
08-03-82	17,009	10.7	48	21	6	6/30	16.8	2	5.4	6.8	192,000	312,668
08-05-82	17,114	10.6	47	19	7	5/13	15.4		3.6	7.0	189,000	320,077
08-05-82	17,158	10.7	42	14	5	6/36	15.2	2	3.3	7.0	190,000	327,368
08-06-82	17,186	10.5	52	16	4	4/21	18.0	2	5.0	7.0	191,000	328.041
08-07-82	17,270	10.6	59	25	12	15/42	15.6	2	2.2	7.6	194,000	334,919
08-08-82	17,342	10.5	52	16	5	4/38	15.8	2	3.0	7.4	197,000	342,910
08-09-82	17,356	10.6	42	12	7	12/52	17.2	2	3.0	8.8	197,000	346,823
08-10-82	FISH											
08-11-82	FISH											
08-12-82	FISH											
08-13-82	17,359	10.6	46	21	11	14/38	21.0	2	5.3	7.7	188,000	350,813
08-14-82	17,412	10.5	58	23	22	23/55	19.0	3	5.4	6.8	192,000	353,147
08-15-82	17,640	10.5	49	22	18	18/35	18.5	2	4.7	6.8	195,000	360,876

MUD RECORD CONT'D

DATE	DEPTH	WT.	VIS	P.V.	Y.P.	GEL	FIL	CK	SOLIDS	PH	CHL	COST
08-16-82	17,866	10.5	60	23	22	28/70	19.0	3	5.4	6.8	190,000	367,532
08-17-82	17,939	10.5	44	17	14	16/38	17.0	2	6.5	7.5	188,000	374,390
08-18,82	17,939	10.5	43	13	7	11/34	18.0	3	2.2	8.2	195,000	374,785
08-19-82	18,100	10.4	54	26	22	16/42	20.0	2	3.0	7.2	190,000	378,296
08-20-82	18,129	10.6	39	10	7	11/22	18.0	-	3.2	8.4	195,000	383,063
08-21-82	18,153	10.5	40	15	12	12/30	19.0	2	3.0	7.4	192,000	386,339
08-22-82	18,217	10.4	47	19	16	13/25	27.0	2	6.2	6.9	195,000	388,922
08-23-82	18,293	10.4	46	23	22	13/27	26.0	3	4.7	7.2	190,000	396,939
08-24-82	18,380	10.4	60	27	24	18/34	21.2	3	3.2	6.9	194,000	400,670
08-25-82	18,450	T.D.										

SURVEYS AND DRILLING FUNCTIONS

DEPTH	DEVIATION	W.O.B.	R.P.M.	P.P.
253	0°	18-24K	50	1400
535	2 3/4°	25-30K	55	1300
545	2 3/4°	30-35K	60	1600
637	3°	30-35K	60	1600
739	2 3/4°	30-35K	60	1800
832	3 1/4°	30-35K	60	1800
906	1 1/4°	20-25K	58	1050
1009	1/4°	20-25K	58	1050
1109	3/4°	20K	65	1800
1195	2°	25-30K	60	1800
1327	1 1/4°	25-30K	50	1700
1420	1 1/2°	25-30K	50	1700
1533	1 3/4°	25-30K	50	1800
1635	1 3/4°	25-30K	50	1700
1690	2°	25-30K	50	1700
1757	2 1/4°	30K	40	1900
1831	2 1/4°	30K	40	1900
1937	2 1/4°	25-30K	40	1900
2016	2 1/2°	25-30K	40	1900
2101	2 1/4°	30K	50	1900
2201	3°	30K	46	1600
2339	3°	30K	40	1800
2490	4 1/2°	15-30K	40-54	1500-1800
2506	4 3/4°	15-30K	40-54	1500-1800
2563	4 3/4°	20-30K	55	1500
2655	4°	20-30K	55-70	1500
2748	3 3/4°	25-35K	50-55	1500
2795	3 3/4°	35-40K	50-55	1500
2954	3 1/2°	40K	55	1500
3088	3°	30-40K	60	1500
3200	2 3/4°	30-40K	60	1500
3300	2 3/4°	35-40K	60	1500
3399	2°	30-40K	60	1500
3510	2 1/4°	30-40K	60	1500
3615	2°	15-30K	40-45	1500

SURVEYS AND DRILLING FUNCTIONS CONT'D

DEPTH	DEVIATION	W.O.B.	R.P.M.	P.P.
3679	2 3/4°	15-30K	40-45	1500
3798	2 1/4°	35-40K	62	1900
3892	2°	35-40K	62	1900
3964	1 1/2°	25-35K	62	1900
4065	2 1/4°	30-35K	62	1800
4187	1 3/4°	35-38K	63	1800
4220	2 1/4°	35-38K	63	1800
4240	1 1/2°	40K	75	1100
4433	1 3/4°	40-45K	75	1100
4506	1 1/4°	40-45K	75	1100
4620	1 3/4°	30-40K	66	1100
4866	2°	35K	65	1100
4929	1 3/4°	30-35K	66	1000
5172	1 3/4°	35K	70	1700
5426	2 1/4°	35-37K	70	1700
5675	2°	35K	70	1200
5965	2°	35K	70	1200
6245	2°	35K	65	1200
6558	2°	40K	60	1800
6752	2°	35K	62	1800
7043	2 1/4°	40K	62	1900
7226	2 1/4°	40K	62	1900
7551	1 3/4°	40K	62	1900
7788	2 1/4°	50K	60	1900
8374	1 1/4°	60K	60	1900
9539	1°45' S62E	40K	60	1900
10,351	7°15' S63E	25K	55	1900
10,458	6°30' S63E	40K	60	1900
10,567	5° S68E	45K	50	1900
10,645	4° S71E	45K	50	1900
10,715	3°55' S64E	45K	60	1900
10,920	6° N87E	35K	70	1900
10,992	6°15' N80E	40K	70	1900
11,070	6° N77E	40K	70	1900

SURVEYS AND DRILLING FUNCTIONS CONT'D

DEPTH	DEVIATION	W.O.B.	R.P.M.	P.P.
11,132	5°45' N71E	40K	70	1900
11,225	5°45' N73E	40K	70	1900
11,317	5°30' N68E	40K	70	1900
11,443	5°15' N66E	40K	70	1900
11,567	5°15' N66E	40K	70	1900
11,724	4°45' N66E	40K	70	1900
11,881	5° 0' N66E	40K	70	1900
12,023	5° 0' N61E	40K	70	1900
12,220	4°45' N70E	40K	70	1900
12,375	4°30' N78E	40K	70	1900
12,532	3°40' N81E	40K	70	1900
12,624	3°50' S87E	40K	60-65	1900
12,749	3°55' S87E	40K	70	1900
12,875	4° 0' S89E	40K	65	1900
13,029	5° 0' N82E	40K	65	1900
13,123	4°55' S89E	30K	70	1900
13,278	5°20' N87E	30K	70	1900
13,402	5°15' N85E	25-30K	70	1900
13,513	5°15' N88E	30K	70	1900
13,595	4 1/2° -	30-35K	70	1925
13,720	4 1/2° -	30-35K	70	1900
13,815	4 1/2° -	30-35K	70	1900
13,846	4°15' N84E	30-35K	70	1900
13,938	4° -	40K	70	1900
14,033	4° -	40K	70	1900
14,131	3°15' S85E	40K	70	2000
14,189	3 1/2° -	40K	65	1900
14,252	3 1/2° -	40K	65	1900
14,314	3 1/2° -	40K	65	1900
14,375	1°45' S87E	40K	65	1900
14,656	1°15' S79E	40K	65	1900
14,878	0° to 3 1/2°	40K	65	1900
15,067	0° to 3 1/2°	40K	65	1900
15,177	1°30' S81E	40K	65	1900
15,595	0° to 3 1/2°	40K	65	2300

SURVEYS AND DRILLING FUNCTIONS CONT'D

DEPTH	DEVIATION	W.O.B.	R.P.M.	P.P.
15,714	$1^{\circ}45'$ N65E	40K	63	2300
15,968	0° to $3\ 1/2^{\circ}$	40K	65	2300
16,253	0° to $3\ 1/2^{\circ}$	40K	55	2300
16,441	0° to $3\ 1/2^{\circ}$	40K	55	2300
16,769	$1\ 1/2^{\circ}$-	45K	46	2300
16,817	1°-	45K	46	2300
17,033	0°-1°-	45K	50	2400
17,158	$1^{\circ}30'$ N1°E	40K	50	2400
17,311	1° -	40K	50	2400
17,318	$1^{\circ}30'$ S10W	40K	50	2400
17,939	$2^{\circ}25'$ S0W	40K	47	2400
18,129	$2^{\circ}15'$ S30E	40K	47	2400
18,450	$5^{\circ}45'$ S15W			

LITHOLOGY SUMMARY

NOTE: The following are generalized descriptions of large sections of lithology observed from the drill cuttings of the Elba Flats #1-30. For detailed lithological descriptions, refer to the strip log in the back flap.

DEPTH	DESCRIPTION
1900 - 1940	Sandstone - white, frost, clear, fine to medium grain, moderately sorted, slightly calcareous, firm to unconsolidated, sub angular to rounded, good porosity, no shows.
1940 - 2570	Predominately claystone in the upper third of the section, green, dark purple, lavender, gray, and maroon, sub waxy and occ bentonitic. Interbedded with cream micro to finely crystalline limestone and very fine grained vari-colored sandstone. The lower two thirds of the section contains mostly sandstone - white, clear, green, red, purple, pink, very fine to fine grain, tight, calcareous, predominately interbedded with red and maroon shales.
2570 - 2630	Siltstone - red, red-orange, firm, slightly calcareous with dark red and maroon shale.
2630 - 3910	Sandstone - white, frost, orange, buff, red, and pink, very fine to fine grain, scattered medium grain, predominately tight, clean and calcareous to silty and clay felled, fair to very poor porosity. No shows. Interbedded with vari-colored shales and siltstones, predominately red and maroon.
3910 - 4610	Shale and Siltstone - dark red, red-brown, red-orange, earthy to very silty, occasionally sandy with thin bedded vari-colored very fine grain sandstones. Lower half contains vari-colored conglomerates - red, frost, pink, green, lavender, sandstone with vari-colored limestone, dolomite and chert pebbles.
4610 - 8330	Arkose clastics - feldspar, pink, white, frost, red, clear, red-orange, and clear to frosted quartz, medium to very coarse grain, predominately angular unconsolidated fragments interbedded with abundant red, sandy micaceous siltstones. Occasionally large flakes of muscovite and biotite micas as well as large fragments of granite and what appears to be metamorphic schist.
8330 - 13,330	Predominately arkose clastics as above. Pink, white, frost and clear quartz and feldspar, medium to coarse grained angular fragments, highly compacted, occasionally interbedded with red and gray siltstones and gray-brown finely crystalline limestones and soft black carbonaceous shales.

LITHOLOGY SUMMARY CONT'D

DEPTH	DESCRIPTION
13,330 - 16,540	Predominately arkose clastics as above with abundant interbedded light to dark gray siltstones and black carbonaceous shales, and thin beds of light to dark gray limestones and dolomite in the upper half of the section, with greatly increasing amounts of light to dark finely crystalline dolomites, gray siltstones and black shale in the lower half of the section.
16,540 - 16,760	Predominately salt with interbedded coarsely crystalline to granular anhydrite and gray thin bedded siltstones, sand, and dolomite.
16,760 - 17,220	Predominately black dolomitic shales and tan, gray, and brown argellaceous dolomites, with some gray and brown limestones and light gray, very fine grain sands.
17,220 - 17,420	Predominately shale and siltstone - dark red, red-orange, maroon, purple, firm, calcareous, interbedded with limestone and dolomite, tan, maroon, gray, gray-brown green, pink, very fine to finely crystalline with occasional limestone and dolomite nodules in red and maroon shales.
17,420 - 18130	Predominately carbonates, limestone - tan, gray-brown, cream, white, flaky and brittle to hard, finely crystalline and blocky, occasionally white, soft and chalky limestone. Dolomite - tan, gray-brown, light to dark gray, hard sucrosic, with scattered vuggy porosity, vugs predominately less than one millimeter in size and no shows. The bottom part of the section contains thin stringers of light green, sub waxy shales.
18,130 - 18,310	Predominately sandstone and dolomite. Sandstone - white, frost, clear, fine to coarse grain, moderate sorted, angular to well rounded grains, predominately very tight, siliceous, quartzitic, very poor porosity, no shows. Occasionally contains dolomitic cement. Dolomite - medium to dark brown, gray, gray-brown, tan, very fine to finely crystalline, hard, occasional pin point porosity, no shows. Scattered pyrite.
18,310 - 18,450 T.D.	Predominately dolomite - salt and pepper, light to dark gray and white, very fine to finely crystalline, occasionally vitreous appearance due to quartz grains floating in dolomite matrix and occasionally very dark gray due to abundant gray and black shale partings. Traces of pyrite and mica.

ORAL APPROVAL TO PLUG AND ABANDON WELL

CONFIDENTIAL

Operator MOBIL OIL CORPORATION Representative Chuck Stimmel (303-572-2258 #201)

Well No. 1-30 Location SW ¼ NE ¼ Section 30 Township 27S Range 22E

County GRAND Field _____ State UTAH

Unit Name and Required Depth ELBA FLATS UNIT Base of fresh water sands _____

T.D. 18,450' Size hole and Fill per sack ____ " ____ ' Mud Weight and Top _____ #/gal. _____ ' _____

Casing Size	Set At	Top of Cement	To Be Pulled
13 3/8"	4220'		
9 5/8"	8772'		

Formation	Top	Base	Shows

Plugging Requirements

	From	To	Sacks Cement
1.	17,400'	17,200'	
*2.	14,650'	14,350'	
	(above Paradox Salt in shale section)		
3.	11,200'	11,000'	
4.	8,872'	8,650'	
	(at shoe of 9 5/8" casing)		

5. @ 4,222' - perforate 9 5/8" casing below shoe of 13 3/8" casing @ 4220'. Set retainer @ 4000' and squeeze approx. 100 sks. cement outside & leave 200' cement inside 9 5/8" casing.

6. @ 200' - perforate 9 5/8" casing & attempt to establish circulation between 13 3/8" & 9 5/8" casing strings. Cement solid to surface

7. 10 sks @ surface w/standard dry hole marker.

REMARKS

DST's, lost circulation zones, water zones, etc.,

* Plug #2 - Will W.O.C. & tag plug.

Program approved by Mr. Guynn, M.M.S.

Approved by R J. Firth Date 8-27-82 Time 4:00 PM a.m. p.m.

8-28-82 AM - Mr. Stummel advised that all approvals has been received & P & A operations were commencing.

56 64 03

FILE IN TRIPLICATE
FORM OGC-8-X

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Mobil-American Petrofina Elba Flats Unit #1-30

Operator Mobil Oil Corp. *Address* P.O. Box 5444 Denver, CO. 80217

Contractor Parker Drilling Co. #177 *Address* Attn: L.A. Fox

Location SW ¼ NE ¼ *Sec.* 30 *T.* 21S *R.* 22E *County* Grand

Water Sands

	Depth		Volume	Quality
	From	To	Flow Rate or Head	Fresh or Salty
1.	at 25'		"small amount"	fresh
2.				
3.				
4.				
5.				

(Continue of reverse side if necessary)

RECEIVED
OCT 01 1982
DIVISION OF
OIL, GAS & MINING

Formation Tops

Remarks

NOTE: (a) *Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.*

(b) *If a water analysis has been made of the above reported zone, please forward a copy along with this form.*

Form OGC-1b

SUBMIT TRIPLICATE* (Other instructions on reverse side)

"CONFIDENTIAL"

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND 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.)

5. LEASE DESIGNATION AND SERIAL NO.: U-17251

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT AGREEMENT NAME: Elba Flats Unit

8. FARM OR LEASE NAME: American Petrofina Elba Flats Unit

9. WELL NO.: 1-30

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 30-T21S-R22E

1. OIL WELL ☐ GAS WELL ☒ OTHER Dry Hole

2. NAME OF OPERATOR: Mobil Oil Corporation, Attn: C. J. Park

3. ADDRESS OF OPERATOR: P. O. Box 5444 Denver, CO 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1699' FNL and 2152' FEL Section 30-21S-22E (STRAIGHT HOLE)

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4610' GR, 4637' KB

12. COUNTY OR PARISH: Grand

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.)*

(See attached copy of abandonment procedure).
Well abandoned 8/31/82 - obtained verbal approval.
Formation data, geologic marker information on reverse side.

Subscribed and sworn to before me the 12th day of November, 1982.

Judith A. Olsen
Notary Public

My commission expires Nov. 28, 1984

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

SIGNED C J Park C. J. Park TITLE Producing Accounting Supv. DATE 11-12-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

Formation	Top	Bottom	Description, contents, etc.
Leadville	17,427'	17,940'	Salt water (22,500 ppm NaCl by log analysis)

No cores or drill stem tests.

Geologic Markers

Name	Meas. Depth (Top)
Mancos	Sur.
Dakota Si H	1,856
Dakota Sand	1,912
Cedar Mtn.	1,946
Morrison	2,096
Summerville	2,557
Moab Tongue	2,628
Entrada	2,710
Carmel	3,108
Navajo	3,174
Keyenta	3,391
Wingate	3,592
Chinle	3,905
Moenkopi	4,157
Cutter	4,610
Honaker Trail	8,330
Paradox Salt	16,539
Pinkerton Trail	17,008
Molas	17,250
Leadville	17,427
Ouray	17,940
Elbert	18,068
McCracken	18,223
Cambrian	18,311

ELBA FLATS

PLACEMENT OF PLUGS

Plug #1, from 17,400' to 17,105', cement used - 113 sx class G cement.

Plug #2, from 14,650' to 14,257', cement used - 180 sx class G cement.

Plug #3, from 11,220' to 10,961', cement used - 210 sx class G cement.

Plug #4, from 8,877' to 8,645', cement used - 148 sax class G cement.

Plug #5 Perf. 4-½ hole 4222/4223
Set E.Z. Dil Ret. @ 4021' pumped excess drilling fluid and water out of pits, followed by 235 sx class G cement.

Plug #6 Picked up B.O.P.E. pulled 9 5/8" csg. slips
Lowered B.O.P.E. Perf. 9 5/8 csg. @ 200/201 w/4 - ½ hole.
RIH w/5" D.P. to 180' sq. 253 sx class G cement out holes @ 200/201.

Plug #7 From 200' to 4' B.G.L., cement used - 170 sx class G cement.

Weld 1/4 plate over 20", 13 3/8 and 9 5/8 csg.
Placed weld marker.

"CONFIDENTIAL"

7

Form OGC-3

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] DRY [X] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Mobil Oil Corporation Attn: Producing Acctg. Supv.

3. ADDRESS OF OPERATOR: P. O. Box 5444 Denver, CO 80217-5444

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1699' FNL and 2152' FEL Section 30-21S-22E
At top prod. interval reported below: straight hole
At total depth:

5. LEASE DESIGNATION AND SERIAL NO.: U-17251
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT AGREEMENT NAME: Elba Flats Unit
8. FARM OR LEASE NAME: American Petrofina Elba Flats Unit
9. WELL NO.: 1-30
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 30-T21S-R22E

14. ~~PERMIT NO.~~ API 43-019-30918 | DATE ISSUED 2/18/82
12. COUNTY OR PARISH: Grand
13. STATE: 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
2/24/82	8/24/82	P&A 8/31/82	4610' GR, 4637' KB*	

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
18,450'			→	to TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: None

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL-MSFL/SP-GR, FDC-CNL/GR, BHCS/GR, Dipmeter (no logs run from 4220-8772'

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
20"	94# K-55 Buttress	532'	26"	925 sx Pozmix + 100 sx Class G	
13 3/8"	61# & 68# K-55 "	4220'	17 1/2"	2334 Class G	
9 5/8"	47# SS-95 Lt & C	8772'	12 1/4"	745 sx Hallib Lite + 287 sx Class G	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
-		

31. PERFORATION RECORD (*Interval, size and number*): -

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
-	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
N/A		

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				

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.*): N/A

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: E-logs, mud log, geological report, directional survey

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

SIGNED [signature] TITLE Prod. Acctg. Supv. DATE 11-12-82

*(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.
Leadville	17,427'	17,940'	Salt water (22,500 ppm NaCl by log analysis).
No cores or drill stem tests.			

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Mancos	Sur/	
Dakota Si H	1,856	
Dakota Sd	1,912	
Cedar Mtn.	1,946	
Morrison	2,096	
Summerville	2,557	
Moab Tongue	2,628	
Entrada	2,710	
Carmel	3,108	
Navajo	3,174	
Kayenta	3,391	
Wingate	3,592	
Chinle	3,905	
Moenkopi	4,157	
Cutler	4,610	
Honaker Trail	8,330	
Paradox Salt	16,539	
Pinkerton Trail	17,008	
Molas	17,250	
Leadville	17,427	
Ouray	17,940	
Elbert	18,068	
McCracken	18,223	
Cambrian	18,311	

STATE OF UTAH
DEPARTMENT OF HEALTH

NORMAN H. BANGERTER GOVERNOR

SUZANNE DANDOY, M.D., M.P.H., EXECUTIVE DIRECTOR

RECEIVED

APR 18 1985

DIVISION OF OIL
GAS & MINING

April 16, 1985
533-6146

Mr. Kerry Miller
AMBRA
Oil and Gas Company
American Plaza III
47 West 200 South, Suite 510
Salt Lake City, Utah 84101

RE: Application for Disposal
in an Unlined Pit at TXO
14-2 Well

Dear Mr. Miller:

We have received the above referenced application and find that the less than 5 bbl/day allowance of 6.5.1 b does not apply to the well. The disposal of 30 bbls/day of water will require a lined pond meeting the requirements of Part VI of the "Utah Wastewater Disposal Regulations".

As an option to building an approved lined pond, a holding tank may be installed to accept all produced water. Water from the tank would then be trucked to one of the authorized disposal pits or injection wells in the area. The closest pit in the CISCO area is operated by Grand County and is located in Section 30, T21S, R22E SLM in Grand County, Utah.

American Petrofina #1-30
43-019-30918

If AMBRA wishes to build a pit, a detailed set of plans, specifications and design criteria for the lined pond must be submitted. This must include a detailed geologic report describing the suitability of the site to contain the produced brine water. If you would like to discuss this matter further please contact Brian Nelson of this office.

Sincerely,

Fred C. Pehrson

Fredrick C. Pehrson, P.E., Chief
Permits and Compliance Section
Bureau of Water Pollution Control

BLN:tf

cc: BLM - Moab District Office
Division of Oil, Gas, and Mining
Southeastern District Health Department

0428

```
****************
*              *
****************
* SCHLUMBERGER *
****************
```

HIGH RESOLUTION

DIPMETER

****

CLUSTER LISTING
****

43-019-30918

MOBIL OIL CORPORATION

WILDCAT

GRAND , UTAH

ELBA FLATS UNIT 1-30

RUN NO. THREE JOB NO. 15477

CLUSTER RESULTS ONLY

4 FT. CORR. - 2 FT. STEP

40 DEG. X2 SEARCH ANGLE

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
13012.0			5.5	88	13.0	9.8	
13014.0			5.5	88	14.3	10.3	
13016.0			5.6	89	16.0	10.7	
13018.0			5.6	89	17.6	11.2	
13020.0			5.7	88	17.5	11.2	
13022.0			5.7	88	16.7	11.1	
13024.0			5.7	88	16.1	10.9	
13026.0			5.7	87	14.8	10.7	
13028.0			5.7	86	13.8	10.5	
13030.0			5.8	88	14.1	10.5	
13032.0			5.9	89	14.9	10.8	
13034.0			5.9	89	15.6	11.1	
13036.0			5.9	90	15.7	11.3	
13038.0			6.0	89	15.1	11.7	
13040.0			6.0	89	15.0	11.7	
13042.0			6.0	88	15.0	11.4	
13044.0			6.0	86	14.6	11.1	
13046.0			6.1	87	14.8	11.1	
13048.0			6.1	88	15.1	11.3	
13050.0			6.1	87	15.0	11.4	
13052.0			6.1	88	15.4	11.3	
13054.0			6.1	89	15.7	11.0	
13056.0			6.1	89	15.6	11.0	
13058.0			6.1	89	14.7	11.1	
13060.0			6.2	88	13.7	10.9	
13062.0			6.2	87	13.1	10.3	
13064.0			6.2	88	13.1	10.0	
13066.0			6.2	88	13.8	10.1	
13068.0			6.2	88	14.7	10.4	
13070.0			6.2	88	14.9	10.7	
13072.0			6.2	88	15.0	10.7	
13074.0			6.2	89	15.1	10.7	
13076.0			6.2	90	15.1	10.8	
13078.0			6.2	91	15.4	10.8	
13080.0			6.2	91	15.2	10.9	
13082.0			6.2	91	15.0	10.8	
13084.0			6.2	92	15.0	10.6	
13086.0			6.2	92	15.4	10.6	
13088.0			6.2	92	15.3	10.9	
13090.0			6.2	91	14.5	11.0	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
13092.0			6.3	91	15.0	11.3	
13094.0			6.4	92	15.9	11.5	
13096.0			6.5	91	15.8	11.3	
13098.0			6.6	91	15.9	11.5	
13100.0			6.6	91	16.0	11.6	
13102.0			6.6	91	15.7	11.1	
13104.0			6.7	90	15.2	10.9	
13106.0			6.7	89	15.3	10.7	
13108.0			6.7	93	16.2	10.6	
13110.0			6.7	95	16.5	10.4	
13112.0			6.7	94	16.0	10.0	
13114.0			6.8	94	16.1	9.9	
13116.0			6.8	94	16.3	9.9	
13118.0			6.8	92	15.5	9.7	
13120.0			6.8	91	15.4	9.6	
13122.0			6.8	93	16.3	9.6	
13124.0			6.8	94	16.5	9.7	
13126.0			6.9	94	16.0	9.6	
13128.0			6.8	94	15.5	9.4	
13130.0			6.8	94	15.3	9.3	
13132.0			6.8	93	15.2	9.3	
13134.0			6.8	94	14.9	9.2	
13136.0			6.8	93	14.2	8.9	
13138.0			6.8	93	14.2	8.8	
13140.0			6.8	95	14.8	9.0	
13142.0			6.9	94	14.4	9.1	
13144.0			6.9	93	14.6	9.2	
13146.0			6.8	93	14.2	9.2	
13148.0			6.8	93	13.3	9.0	
13150.0	65.8	140	6.8	92	13.1	8.9	D
13152.0			6.8	92	12.7	8.9	
13154.0			6.7	91	12.4	8.8	
13156.0			6.7	91	12.5	8.9	
13158.0			6.7	93	12.4	8.9	
13160.0	71.1	137	6.7	94	12.6	9.1	B
13162.0			6.7	94	13.9	9.4	
13164.0			6.7	95	15.1	9.7	
13166.0			6.6	96	15.1	9.8	
13168.0			6.6	93	14.4	9.7	
13170.0			6.6	93	13.1	9.5	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
13172.0			6.6	96	12.8	9.5	
13174.0			6.6	95	13.1	9.5	
13176.0			6.6	94	12.9	9.5	
13178.0			6.5	95	13.1	9.6	
13180.0			6.6	96	13.0	9.6	
13182.0			6.5	97	12.4	9.6	
13184.0			6.5	97	11.9	9.7	
13186.0			6.5	96	11.6	9.6	
13188.0			6.5	96	11.7	9.7	
13190.0			6.5	96	11.7	9.7	
13192.0			6.5	96	11.5	9.6	
13194.0			6.5	95	11.3	9.4	
13196.0			6.4	95	11.7	9.5	
13198.0			6.2	96	12.4	9.4	
13200.0			6.2	95	13.1	9.3	
13202.0			6.2	95	13.3	9.5	
13204.0			6.2	96	13.3	9.7	
13206.0			6.2	96	12.4	9.9	
13208.0			6.2	96	11.0	10.0	
13210.0			6.2	96	10.3	9.9	
13212.0			6.2	95	10.2	9.8	
13214.0			6.2	95	10.0	9.8	
13216.0			6.2	96	9.8	9.9	
13218.0			6.3	97	9.6	10.0	
13220.0			6.3	97	9.5	10.1	
13222.0			6.2	97	9.4	10.3	
13224.0			6.2	97	9.4	10.3	
13226.0			6.3	98	9.6	10.2	
13228.0			6.3	96	9.9	10.4	
13230.0			6.3	96	10.1	10.4	
13232.0			6.2	97	11.0	10.4	
13234.0			6.2	98	13.5	10.8	
13236.0			6.2	97	15.6	11.2	
13238.0			6.1	95	16.2	11.4	
13240.0			6.1	94	13.7	10.9	
13242.0			6.1	94	13.2	10.2	
13244.0			6.1	94	13.2	10.3	
13246.0			6.2	95	11.2	10.4	
13248.0			6.3	95	11.1	10.3	
13250.0			6.4	93	12.1	10.8	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
13252.0			6.3	95	13.9	11.5	
13254.0			6.3	96	15.0	11.9	
13256.0			6.3	95	16.0	12.3	
13258.0	36.0	190	6.2	95	16.1	12.8	D
13260.0	37.4	193	6.2	95	15.2	12.5	D
13262.0			6.2	94	15.6	12.6	
13264.0			6.2	93	16.2	12.7	
13266.0			6.1	94	15.8	12.5	
13268.0			6.0	94	16.4	12.5	
13270.0			6.1	95	17.1	12.7	
13272.0			6.1	95	16.3	12.7	
13274.0			6.1	93	16.1	12.5	
13276.0			6.1	93	17.3	12.2	
13278.0	78.2	57	6.2	92	16.7	11.9	D
13280.0			6.2	91	15.4	11.7	
13282.0	74.9	90	6.1	91	15.3	11.8	D
13284.0			6.0	91	15.1	11.7	
13286.0	29.4	307	6.0	93	15.5	11.9	D
13288.0	30.9	302	5.9	93	15.1	11.8	B
13290.0			5.8	91	14.7	11.1	
13292.0			5.7	93	15.9	10.7	
13294.0			5.8	93	17.3	10.5	
13296.0			5.8	92	17.6	10.5	
13298.0			5.8	91	16.4	10.4	
13300.0			5.8	90	16.0	10.4	
13302.0			5.8	91	16.0	10.6	
13304.0			5.8	92	15.9	10.8	
13306.0			5.9	92	16.2	10.5	
13308.0			5.9	91	16.2	10.0	
13310.0			5.9	91	15.7	9.9	
13312.0			5.9	91	15.8	9.9	
13314.0			5.9	91	16.1	9.9	
13316.0			5.9	91	16.1	9.8	
13318.0			5.9	91	15.6	9.8	
13320.0			5.9	91	14.6	9.7	
13322.0			6.0	91	15.5	9.7	
13324.0			6.0	91	16.1	9.8	
13326.0			6.0	90	15.0	9.7	
13328.0			6.0	89	13.9	9.6	
13330.0			5.9	90	12.3	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 =A
13332.0			5.9	89	11.4	9.2	
13334.0			5.9	86	11.1	9.1	
13336.0			5.9	87	11.0	9.0	
13338.0			6.0	88	10.6	9.1	
13340.0			6.0	89	10.1	9.3	
13342.0			6.0	91	10.0	9.4	
13344.0			6.0	91	10.1	9.4	
13346.0			6.0	92	10.3	9.5	
13348.0			6.0	93	10.4	9.5	
13350.0			6.1	92	10.6	9.5	
13352.0			6.1	92	10.7	9.7	
13354.0			6.1	90	10.8	9.8	
13356.0	30.5	95	6.1	88	10.9	9.9	B
13358.0	31.9	95	6.2	87	10.9	10.0	D
13360.0			6.2	87	11.0	10.1	
13362.0	17.1	9	6.2	86	11.0	10.1	D
13364.0	14.8	360	6.3	86	11.1	10.1	D
13366.0			6.3	85	11.1	10.2	
13368.0			6.3	85	11.1	10.2	
13370.0	16.7	22	6.3	85	11.1	10.2	B
13372.0			6.3	85	11.1	10.1	
13374.0			6.3	86	11.1	10.0	
13376.0			6.3	86	11.0	9.8	
13378.0	15.0	43	6.3	86	11.0	9.7	D
13380.0			6.3	86	10.9	9.6	
13382.0			6.3	86	10.8	9.4	
13384.0			6.3	88	10.8	9.2	
13386.0			6.3	89	10.8	9.0	
13388.0			6.3	88	10.5	8.9	
13390.0			6.3	88	10.4	8.8	
13392.0	32.2	348	6.3	87	10.4	8.8	D
13394.0	31.7	348	6.3	87	10.5	8.9	D
13396.0			6.2	86	10.6	9.0	
13398.0			6.2	86	10.9	9.0	
13400.0			6.2	85	11.0	8.9	
13402.0			6.2	84	11.2	8.8	
13404.0			6.2	84	11.4	8.7	
13406.0			6.1	86	12.5	8.8	
13408.0			6.1	87	12.6	8.8	
13410.0			6.1	86	11.5	8.6	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
13412.0			6.1	85	11.3	8.6	
13414.0			6.2	85	11.4	8.6	
13416.0			6.2	85	11.6	8.5	
13418.0			6.2	86	11.9	8.5	
13420.0			6.2	86	12.0	8.5	
13422.0			6.2	85	12.0	8.6	
13424.0			6.2	86	12.0	8.6	
13426.0			6.2	85	12.0	8.5	
13428.0			6.2	84	13.1	8.8	
13430.0			6.2	85	14.9	9.0	
13432.0			6.2	85	15.1	9.1	
13434.0			6.2	86	14.8	9.1	
13436.0			6.2	86	14.8	9.0	
13438.0			6.2	84	14.4	8.8	
13440.0			6.3	84	14.3	8.8	
13442.0			6.3	83	14.8	9.0	
13444.0			6.2	85	14.8	9.0	
13446.0			6.2	89	14.3	8.8	
13448.0			6.3	89	13.5	8.6	
13450.0			6.3	88	12.9	8.4	
13452.0			6.3	88	12.9	8.4	
13454.0			6.3	88	12.9	8.3	
13456.0			6.3	86	12.9	8.3	
13458.0			6.3	85	12.9	8.4	
13460.0			6.3	85	13.5	8.5	
13462.0			6.3	84	14.8	8.8	
13464.0			6.2	85	15.5	9.1	
13466.0			6.2	86	15.7	9.1	
13468.0			6.2	86	15.3	8.9	
13470.0			6.2	86	15.1	8.7	
13472.0			6.1	87	15.4	8.7	
13474.0			6.1	87	15.1	8.7	
13476.0			6.1	87	14.6	8.6	
13478.0			6.2	87	14.6	8.7	
13480.0			6.2	85	15.3	8.9	
13482.0			6.3	86	16.1	9.0	
13484.0			6.3	87	16.2	8.9	
13486.0			6.3	87	15.2	8.4	
13488.0			6.3	86	14.2	7.9	
13490.0			6.3	84	13.8	7.8	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
13492.0			6.3	85	13.7	7.9	
13494.0			6.3	86	13.9	7.9	
13496.0			6.4	85	13.9	7.9	
13498.0			6.4	84	14.3	7.9	
13500.0			6.2	84	15.1	8.2	
13502.0			6.2	85	14.9	8.1	
13504.0			6.1	85	14.4	7.7	
13506.0			6.1	85	14.7	7.7	
13508.0			6.1	86	14.7	7.8	
13510.0			6.0	85	14.7	8.0	
13512.0			6.0	85	15.1	8.1	
13514.0			6.0	85	15.7	8.3	
13516.0			5.9	85	16.2	8.5	
13518.0			5.9	85	16.5	8.4	
13520.0			5.9	85	16.3	8.3	
13522.0			6.0	85	16.0	8.2	
13524.0	26.7	360	6.0	85	16.4	8.3	D
13526.0	26.8	22	6.0	85	16.3	8.4	D
13528.0			6.1	86	16.2	8.5	
13530.0	28.4	26	6.0	86	16.8	8.6	D
13532.0	27.7	15	6.0	86	16.4	8.5	D
13534.0			6.0	86	15.8	8.2	
13536.0			6.0	85	16.4	8.4	
13538.0			6.0	85	17.2	8.5	
13540.0			6.0	87	17.7	8.5	
13542.0	77.0	328	6.0	86	17.8	8.5	D
13544.0			6.0	86	17.4	8.5	
13546.0			6.0	85	17.4	8.5	
13548.0			6.0	85	17.3	8.5	
13550.0			6.0	84	16.6	8.5	
13552.0			6.0	84	17.0	8.6	
13554.0			5.9	83	17.9	8.7	
13556.0			5.9	83	18.0	8.9	
13558.0			6.0	84	18.3	8.8	
13560.0			6.0	85	18.4	8.7	
13562.0			6.0	84	18.2	8.7	
13564.0			6.0	84	17.9	8.7	
13566.0			6.1	85	17.3	8.5	
13568.0			6.1	84	17.0	8.4	
13570.0	31.8	230	6.1	83	17.2	8.5	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
13572.0	32.9	235	6.1	83	17.5	8.5	D
13574.0			6.1	84	17.5	8.5	
13576.0			6.0	86	17.3	8.4	
13578.0			6.0	86	17.2	8.4	
13580.0			6.0	85	17.1	8.5	
13582.0			6.1	85	16.8	8.5	
13584.0	45.1	39	6.1	84	16.1	8.5	D
13586.0	45.9	37	6.1	83	15.6	8.5	D
13588.0			6.1	84	15.9	8.6	
13590.0			6.0	85	16.0	8.7	
13592.0			6.0	85	16.1	8.8	
13594.0			6.0	85	16.2	8.7	
13596.0			6.0	86	16.1	8.7	
13598.0			6.0	86	16.0	8.7	
13600.0			6.0	85	16.0	8.8	
13602.0			5.9	85	16.0	8.8	
13604.0			5.9	86	16.4	8.9	
13606.0			5.9	86	16.5	8.9	
13608.0			5.9	86	16.1	8.9	
13610.0			5.9	87	15.6	8.9	
13612.0			5.9	86	15.2	8.7	
13614.0			6.0	87	15.2	9.2	
13616.0			6.0	87	15.4	9.3	
13618.0			6.0	87	15.3	8.9	
13620.0			6.0	88	15.2	9.1	
13622.0			5.9	87	15.3	9.1	
13624.0			5.9	88	15.3	9.0	
13626.0			5.9	89	14.9	9.1	
13628.0			5.9	88	14.2	9.1	
13630.0			5.9	86	14.1	9.2	
13632.0			5.9	85	14.8	9.2	
13634.0			5.9	85	14.5	9.2	
13636.0			5.9	85	13.5	9.2	
13638.0			5.9	84	13.7	9.2	
13640.0			5.8	86	14.4	9.0	
13642.0			5.8	86	13.9	8.9	
13644.0			5.7	85	13.9	8.9	
13646.0			5.7	85	13.5	8.9	
13648.0			5.7	82	12.2	8.8	
13650.0			5.7	82	11.7	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 =A
13652.0			5.7	85	12.9	9.0	
13654.0			5.6	88	13.9	9.2	
13656.0			5.5	88	12.8	9.1	
13658.0			5.6	85	11.5	8.9	
13660.0			5.6	84	11.3	8.9	
13662.0			5.5	86	11.1	8.9	
13664.0			5.5	87	11.0	8.9	
13666.0			5.5	87	10.9	9.0	
13668.0			5.5	86	10.9	9.1	
13670.0			5.5	85	10.8	9.1	
13672.0			5.4	85	10.8	9.1	
13674.0			5.4	86	11.0	9.0	
13676.0			5.4	86	11.1	9.1	
13678.0			5.3	86	11.0	9.1	
13680.0			5.3	85	10.9	9.0	
13682.0			5.3	86	10.8	9.0	
13684.0			5.3	86	10.8	9.0	
13686.0			5.3	87	10.8	9.0	
13688.0			5.3	87	10.8	9.0	
13690.0			5.3	87	11.0	8.9	
13692.0			5.3	87	11.1	8.9	
13694.0			5.3	86	11.2	8.9	
13696.0			5.3	86	11.3	8.9	
13698.0			5.2	86	11.2	8.9	
13700.0			5.2	86	11.1	8.9	
13702.0			5.2	86	10.9	9.0	
13704.0			5.2	85	10.8	9.0	
13706.0			5.2	87	11.1	9.0	
13708.0			5.2	90	11.6	9.0	
13710.0			5.1	86	11.3	9.1	
13712.0			5.1	84	10.9	9.0	
13714.0			5.1	84	10.9	9.1	
13716.0			5.1	83	10.9	9.0	
13718.0			5.1	84	11.3	9.0	
13720.0			5.0	87	11.8	9.1	
13722.0			5.0	87	12.8	9.1	
13724.0			5.0	87	14.9	9.2	
13726.0			5.1	86	16.4	9.4	
13728.0			5.2	86	15.4	9.3	
13730.0			5.4	88	14.9	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 =A
13732.0			5.4	89	15.7	9.2	
13734.0			5.2	87	16.1	9.2	
13736.0			5.2	86	15.0	9.2	
13738.0			5.1	87	15.4	9.3	
13740.0			5.0	87	16.7	9.3	
13742.0			5.0	88	16.2	9.3	
13744.0			5.0	89	15.5	9.3	
13746.0			5.0	89	15.0	9.4	
13748.0			5.0	86	14.6	9.3	
13750.0			5.0	84	14.3	9.3	
13752.0			5.0	84	14.1	9.3	
13754.0			5.0	85	13.9	9.2	
13756.0			5.0	85	14.0	9.2	
13758.0			5.0	87	14.3	9.2	
13760.0			5.0	86	14.1	9.2	
13762.0			5.0	83	14.4	9.3	
13764.0			4.9	85	14.5	9.3	
13766.0			5.0	87	14.1	9.3	
13768.0			5.0	87	13.9	9.3	
13770.0			5.0	85	13.7	9.4	
13772.0			5.0	85	14.1	9.2	
13774.0			5.0	85	15.0	9.2	
13776.0			4.9	86	15.3	9.5	
13778.0			4.9	86	14.5	9.4	
13780.0			4.9	86	14.6	9.4	
13782.0			5.1	86	14.5	9.4	
13784.0			5.1	84	14.0	9.3	
13786.0			5.2	84	13.8	9.1	
13788.0			5.2	85	13.9	9.1	
13790.0			5.0	85	14.2	9.1	
13792.0			4.9	86	14.2	9.0	
13794.0			4.8	87	14.4	9.1	
13796.0			4.8	87	14.7	9.2	
13798.0			4.7	87	14.6	9.2	
13800.0			4.6	87	14.2	9.2	
13802.0			4.6	86	14.1	9.2	
13804.0			4.6	86	14.2	9.4	
13806.0			4.6	86	14.2	9.3	
13808.0			4.6	85	14.0	9.3	
13810.0			4.6	85	13.6	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 =A
13812.0			4.6	85	13.5	9.3	
13814.0			4.6	86	13.3	9.3	
13816.0			4.6	86	13.0	9.3	
13818.0			4.5	86	13.1	9.2	
13820.0			4.5	85	13.2	9.1	
13822.0			4.5	85	13.1	9.1	
13824.0			4.4	87	12.6	9.1	
13826.0			4.4	86	12.3	9.1	
13828.0			4.5	86	12.9	9.1	
13830.0			4.5	88	13.4	9.2	
13832.0			4.5	86	12.5	9.2	
13834.0			4.5	84	11.5	9.1	
13836.0			4.5	84	11.2	9.1	
13838.0			4.5	83	11.0	9.2	
13840.0			4.5	83	10.9	9.3	
13842.0			4.5	83	10.8	9.3	
13844.0			4.4	84	10.8	9.2	
13846.0			4.4	85	10.7	9.3	
13848.0			4.4	85	10.7	9.3	
13850.0			4.3	85	10.7	9.2	
13852.0			4.3	84	10.7	9.2	
13854.0			4.3	83	10.7	9.1	
13856.0			4.2	84	10.7	9.2	
13858.0			4.2	84	10.8	9.2	
13860.0			4.2	84	10.8	9.1	
13862.0			4.2	85	10.7	9.1	
13864.0			4.1	85	10.7	9.1	
13866.0			4.1	85	10.7	9.2	
13868.0			4.1	85	10.8	9.2	
13870.0			4.1	85	10.7	9.2	
13872.0			4.1	85	10.7	9.2	
13874.0			4.0	85	10.8	9.3	
13876.0			4.0	85	10.8	9.3	
13878.0			4.0	86	10.8	9.3	
13880.0			4.0	87	10.9	9.3	
13882.0			4.0	87	11.4	9.2	
13884.0			4.0	86	11.7	9.2	
13886.0			4.0	87	11.9	9.2	
13888.0			4.0	87	12.0	9.3	
13890.0			4.0	85	11.8	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 =A
13892.0			4.0	86	11.4	9.2	
13894.0			4.0	86	11.1	9.2	
13896.0			4.0	86	11.1	9.3	
13898.0			4.1	86	11.1	9.3	
13900.0			4.1	86	11.1	9.3	
13902.0			4.1	87	11.2	9.3	
13904.0			4.0	86	11.3	9.4	
13906.0			4.0	87	11.4	9.4	
13908.0			4.0	87	11.6	9.4	
13910.0			4.0	87	12.2	9.5	
13912.0			4.0	87	12.1	9.6	
13914.0			4.0	86	11.5	9.6	
13916.0			4.0	86	11.5	9.6	
13918.0			4.0	85	11.4	9.6	
13920.0			4.0	84	11.7	9.7	
13922.0			4.0	85	13.4	9.8	
13924.0			4.0	87	14.4	9.8	
13926.0			4.1	89	13.9	9.9	
13928.0			4.1	90	12.7	9.9	
13930.0			4.0	88	11.4	9.8	
13932.0			4.0	87	11.3	9.8	
13934.0			4.0	87	11.4	9.8	
13936.0			3.9	86	11.4	9.8	
13938.0			3.9	86	11.5	9.7	
13940.0			3.9	87	12.5	9.7	
13942.0			3.9	88	12.5	9.7	
13944.0			3.9	88	11.5	9.6	
13946.0			3.9	89	11.2	9.7	
13948.0			3.9	88	11.1	9.7	
13950.0			3.9	88	11.1	9.7	
13952.0			3.9	87	11.1	9.7	
13954.0			3.9	86	11.1	9.7	
13956.0			3.9	85	11.1	9.7	
13958.0			3.9	85	11.1	9.8	
13960.0			3.8	88	11.9	9.8	
13962.0			3.8	91	13.5	9.9	
13964.0			3.8	92	14.1	9.9	
13966.0			3.8	89	12.7	9.9	
13968.0			3.8	87	11.4	9.8	
13970.0			3.8	89	11.4	9.7	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
13972.0			3.8	90	11.3	9.5	
13974.0			3.8	90	11.2	9.4	
13976.0			3.8	89	11.0	9.5	
13978.0			3.9	88	10.9	9.4	
13980.0			3.9	88	10.8	9.4	
13982.0	2.7	94	3.8	88	10.7	9.4	D
13984.0	4.0	274	3.9	87	10.7	9.4	B
13986.0	1.3	216	3.9	87	10.8	9.4	D
13988.0	4.2	281	3.9	86	11.0	9.5	B
13990.0	1.6	235	3.9	86	12.2	9.6	B
13992.0			3.8	87	13.7	9.7	
13994.0			3.8	90	14.6	9.9	
13996.0			3.8	91	14.7	9.9	
13998.0			3.7	89	14.1	9.7	
14000.0			3.7	89	13.3	9.6	
14002.0			3.7	89	13.2	9.6	
14004.0			3.6	88	13.7	9.6	
14006.0			3.7	88	13.6	9.6	
14008.0			3.8	89	13.4	9.5	
14010.0			3.8	89	13.4	9.6	
14012.0			3.8	90	13.6	9.6	
14014.0			3.7	90	13.8	9.7	
14016.0			3.8	90	13.8	9.8	
14018.0			3.8	88	14.0	10.0	
14020.0			3.7	88	14.2	10.1	
14022.0			3.7	89	14.6	10.1	
14024.0			3.7	89	14.7	10.0	
14026.0			3.8	89	14.3	9.9	
14028.0			3.8	89	14.0	9.9	
14030.0			3.8	89	13.6	9.8	
14032.0			3.8	90	13.3	9.7	
14034.0			3.8	89	13.3	9.6	
14036.0			3.8	89	13.1	9.7	
14038.0			3.7	90	12.4	9.7	
14040.0			3.8	91	12.0	9.7	
14042.0			3.7	91	12.2	9.7	
14044.0			3.7	90	12.8	9.7	
14046.0			3.6	89	13.1	9.8	
14048.0			3.6	88	13.6	9.9	
14050.0			3.6	87	14.3	9.9	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
14052.0			3.6	87	14.3	10.0	
14054.0			3.6	88	14.3	10.0	
14056.0			3.6	88	14.1	10.1	
14058.0			3.6	88	14.1	10.1	
14060.0			3.7	88	14.3	10.2	
14062.0			3.7	88	14.3	10.2	
14064.0			3.7	87	14.4	10.2	
14066.0	53.3	54	3.7	87	14.5	10.3	D
14068.0	50.4	53	3.8	88	14.5	10.3	D
14070.0			3.8	87	14.4	10.2	
14072.0			3.9	87	14.5	10.2	
14074.0			3.8	88	15.2	10.1	
14076.0			3.8	87	15.3	10.1	
14078.0			3.9	86	14.9	10.2	
14080.0			3.9	86	14.6	10.1	
14082.0			3.9	87	14.2	10.0	
14084.0			3.9	87	14.2	10.0	
14086.0			4.0	87	14.3	10.0	
14088.0			4.0	87	14.1	10.0	
14090.0			4.0	86	14.1	10.0	
14092.0			3.9	87	14.3	10.0	
14094.0			3.9	88	14.5	10.1	
14096.0			3.9	89	14.9	10.1	
14098.0			3.9	90	15.2	10.1	
14100.0			3.8	90	14.8	10.0	
14102.0			3.8	88	14.6	10.0	
14104.0			3.9	88	14.8	10.0	
14106.0			3.9	89	14.7	10.0	
14108.0			3.9	88	14.1	9.9	
14110.0			3.9	89	13.3	9.8	
14112.0			3.9	89	13.4	9.8	
14114.0			3.9	89	14.0	9.9	
14116.0			3.9	88	13.9	10.0	
14118.0			3.9	88	13.3	9.9	
14120.0			3.9	89	13.2	9.8	
14122.0			3.9	89	13.5	9.9	
14124.0			3.9	91	12.4	9.8	
14126.0	37.7	121	4.0	90	11.4	9.7	D
14128.0			3.9	90	11.9	9.6	
14130.0			3.8	90	11.4	9.5	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
14132.0			3.8	90	10.7	9.4	
14134.0			3.8	90	10.5	9.4	
14136.0			3.8	91	10.3	9.4	
14138.0	38.9	118	3.8	91	10.3	9.5	D
14140.0			3.8	92	10.3	9.6	
14142.0			3.8	92	10.4	9.7	
14144.0			3.8	93	10.5	9.8	
14146.0			3.8	93	10.5	9.8	
14148.0			3.8	93	10.5	9.9	
14150.0			3.8	93	10.7	9.9	
14152.0			3.8	93	10.9	10.0	
14154.0			3.8	91	11.0	10.0	
14156.0			3.8	90	10.8	10.1	
14158.0			3.8	89	10.7	10.1	
14160.0			3.9	89	10.6	10.1	
14162.0			3.9	90	10.5	10.1	
14164.0			3.9	90	10.5	10.0	
14166.0			4.0	90	10.5	10.1	
14168.0			4.0	90	10.6	10.2	
14170.0			4.0	91	10.6	10.2	
14172.0			4.0	91	10.6	10.1	
14174.0			4.0	91	10.6	10.1	
14176.0			4.0	91	10.7	10.1	
14178.0			4.0	92	10.7	10.1	
14180.0			4.0	91	10.7	10.1	
14182.0			4.0	89	10.7	10.1	
14184.0			4.0	89	10.5	10.2	
14186.0			4.0	89	10.4	10.2	
14188.0			3.9	90	10.3	10.3	
14190.0			3.9	89	10.3	10.4	
14192.0			3.9	90	10.4	10.4	
14194.0			3.9	89	10.6	10.5	
14196.0			3.9	89	10.8	10.6	
14198.0			3.8	89	11.0	10.7	
14200.0			3.8	89	11.2	10.8	
14202.0	15.0	336	3.8	89	11.3	10.9	D
14204.0			3.8	89	11.4	10.9	
14206.0	13.0	297	3.8	90	11.4	11.0	D
14208.0	13.0	330	3.8	90	11.4	11.0	D
14210.0	15.2	317	3.8	90	11.3	11.0	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
14212.0			3.8	89	11.2	11.0	
14214.0			3.7	89	11.2	11.1	
14216.0			3.7	89	11.3	11.1	
14218.0			3.6	90	11.4	11.0	
14220.0			3.5	91	11.4	10.9	
14222.0			3.4	92	11.4	10.7	
14224.0			3.4	93	11.5	10.6	
14226.0			3.4	92	11.7	10.5	
14228.0			3.4	92	11.8	10.4	
14230.0	82.2	205	3.4	92	11.8	10.4	D
14232.0			3.4	92	11.8	10.4	
14234.0			3.4	91	11.7	10.4	
14236.0			3.4	91	11.7	10.4	
14238.0			3.4	91	11.8	10.4	
14240.0			3.4	91	11.8	10.5	
14242.0			3.4	90	11.9	10.6	
14244.0			3.4	90	11.9	10.6	
14246.0			3.3	90	11.9	10.7	
14248.0			3.3	89	12.0	10.7	
14250.0			3.3	91	13.3	10.5	
14252.0			3.2	95	14.2	10.5	
14254.0			3.1	93	13.5	10.7	
14256.0			3.1	91	13.0	10.8	
14258.0			3.0	91	12.9	10.8	
14260.0			3.0	90	12.8	10.7	
14262.0			3.0	90	12.6	10.6	
14264.0			3.0	90	12.4	10.5	
14266.0			3.0	90	12.2	10.5	
14268.0			3.0	89	11.9	10.5	
14270.0			3.0	87	11.7	10.4	
14272.0			2.9	88	11.7	10.4	
14274.0			2.9	89	11.6	10.4	
14276.0			2.9	89	11.6	10.4	
14278.0			2.9	89	11.5	10.5	
14280.0			2.9	89	11.5	10.5	
14282.0			2.8	89	11.4	10.7	
14284.0			2.8	89	11.4	10.8	
14286.0			2.8	90	11.4	10.9	
14288.0			2.8	91	11.4	11.1	
14290.0			2.8	91	11.4	11.3	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
14292.0			2.8	91	11.4	11.5	
14294.0			2.8	93	11.3	11.8	
14296.0			2.8	94	11.3	12.2	
14298.0			2.8	93	11.3	12.4	
14300.0			2.7	92	11.3	12.5	
14302.0			2.7	92	11.3	12.5	
14304.0			2.7	91	11.3	12.4	
14306.0			2.7	91	11.2	12.2	
14308.0			2.7	91	11.2	12.1	
14310.0			2.7	90	11.2	11.9	
14312.0			2.7	90	11.3	11.7	
14314.0			2.7	90	11.3	11.4	
14316.0			2.7	89	11.3	11.2	
14318.0			2.7	89	11.3	11.0	
14320.0			2.6	90	11.3	10.8	
14322.0			2.6	91	11.3	10.6	
14324.0			2.6	91	11.3	10.5	
14326.0			2.6	89	11.2	10.4	
14328.0			2.6	89	11.0	10.4	
14330.0			2.5	89	10.9	10.4	
14332.0			2.5	90	10.8	10.4	
14334.0			2.5	91	10.6	10.5	
14336.0			2.5	93	10.5	10.5	
14338.0			2.5	94	10.3	10.6	
14340.0			2.5	95	10.2	10.6	
14342.0			2.5	94	10.1	10.6	
14344.0			2.4	93	10.2	10.6	
14346.0			2.4	93	10.3	10.6	
14348.0			2.4	93	10.4	10.5	
14350.0			2.4	93	10.5	10.5	
14352.0			2.4	92	10.5	10.6	
14354.0			2.4	91	10.5	10.7	
14356.0			2.4	90	10.4	10.6	
14358.0			2.3	91	10.5	10.6	
14360.0			2.3	90	10.5	10.6	
14362.0			2.3	90	10.7	10.7	
14364.0			2.3	91	10.9	10.7	
14366.0	7.3	296	2.3	92	10.9	10.7	D
14368.0	7.1	302	2.3	91	10.7	10.6	D
14370.0	8.1	297	2.3	91	10.6	10.6	B

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
14372.0	0.8	97	2.3	92	10.6	10.5	D
14374.0			2.3	93	10.6	10.5	
14376.0	5.5	291	2.3	92	10.7	10.4	D
14378.0			2.3	91	10.7	10.4	
14380.0			2.3	91	10.7	10.4	
14382.0	4.4	278	2.3	89	10.8	10.4	C
14384.0	3.9	278	2.3	90	10.8	10.2	C
14386.0	4.7	266	2.3	91	10.8	10.1	C
14388.0	3.9	246	2.2	90	10.9	10.1	C
14390.0	2.9	241	2.2	89	10.9	10.1	A
14392.0	2.3	236	2.2	89	10.8	10.1	A
14394.0	4.0	348	2.2	89	10.8	10.1	A
14396.0	6.1	127	2.1	89	10.8	10.1	C
14398.0	4.3	186	2.1	89	10.8	10.2	C
14400.0			2.1	89	10.8	10.2	
14402.0			2.2	89	10.8	10.1	
14404.0			2.1	89	10.8	10.1	
14406.0			2.1	89	10.9	10.1	
14408.0	9.7	251	2.1	89	10.8	10.1	D
14410.0	5.5	239	2.1	89	10.9	10.1	D
14412.0	7.5	269	2.1	89	10.9	10.1	D
14414.0			2.1	89	10.8	10.0	
14416.0			2.1	89	10.9	9.9	
14418.0	3.8	261	2.1	90	10.9	9.9	D
14420.0	3.7	271	2.1	90	10.8	9.9	D
14422.0			2.1	89	10.8	9.9	
14424.0	5.7	241	2.1	89	10.8	9.9	D
14426.0	5.7	211	2.1	89	10.8	9.9	B
14428.0	3.8	176	2.1	89	10.9	9.9	D
14430.0			2.1	89	10.9	9.8	
14432.0			2.1	90	11.0	9.8	
14434.0	7.2	193	2.0	89	11.1	9.8	B
14436.0	6.6	199	2.0	89	11.2	9.8	B
14438.0			2.0	89	11.3	9.8	
14440.0			2.0	89	11.3	9.8	
14442.0			2.0	89	11.2	9.8	
14444.0	4.8	177	2.0	88	11.2	9.8	B
14446.0	7.9	182	2.0	89	11.2	9.8	B
14448.0			2.0	89	11.2	9.8	
14450.0			2.0	88	11.4	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 =A
14452.0	6.5	204	2.0	88	11.7	9.7	D
14454.0			2.0	87	11.9	9.7	
14456.0			2.0	88	11.7	9.7	
14458.0			2.0	89	11.6	9.7	
14460.0	8.0	136	2.0	88	11.8	9.7	D
14462.0			2.0	87	11.6	9.7	
14464.0			2.0	88	11.3	9.7	
14466.0			2.0	88	11.3	9.7	
14468.0			2.0	89	11.3	9.7	
14470.0			2.0	88	11.6	9.7	
14472.0			2.0	89	11.8	9.7	
14474.0			2.0	89	12.0	9.7	
14476.0	1.1	53	2.0	88	12.1	9.7	B
14478.0	1.3	22	2.0	88	12.1	9.7	D
14480.0	4.2	263	2.0	89	11.9	9.6	D
14482.0	6.9	298	2.0	90	11.8	9.6	D
14484.0	6.4	299	2.1	89	11.7	9.6	D
14486.0			2.1	89	11.7	9.5	
14488.0	27.4	173	2.1	88	11.7	9.5	D
14490.0			2.1	89	11.6	9.4	
14492.0			2.0	88	11.7	9.4	
14494.0			2.0	88	11.8	9.4	
14496.0	25.5	178	2.0	87	11.7	9.4	D
14498.0	30.4	176	2.0	87	11.4	9.5	D
14500.0			2.0	87	11.3	9.5	
14502.0			2.1	88	11.1	9.5	
14504.0			2.1	88	11.3	9.5	
14506.0	5.0	239	2.0	87	11.8	9.5	D
14508.0	8.6	266	2.0	87	11.4	9.5	B
14510.0	8.1	265	2.0	88	11.2	9.5	D
14512.0	7.0	127	2.0	89	11.5	9.4	B
14514.0	5.7	115	1.9	89	11.4	9.4	B
14516.0	2.1	322	1.8	88	11.4	9.5	D
14518.0			1.8	88	11.2	9.5	
14520.0			1.8	88	11.1	9.4	
14522.0	7.0	162	1.8	88	11.2	9.4	B
14524.0	3.3	167	1.8	87	10.7	9.4	D
14526.0	2.8	171	1.8	87	10.3	9.4	D
14528.0	7.9	173	1.7	88	10.2	9.4	D
14530.0			1.7	88	10.2	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 =A
14532.0	4.6	251	1.7	87	10.2	9.4	D
14534.0	4.6	248	1.7	87	10.2	9.4	D
14536.0	6.5	107	1.7	86	10.1	9.5	D
14538.0	2.8	251	1.7	86	10.1	9.5	D
14540.0	2.2	255	1.7	87	10.1	9.5	D
14542.0	7.3	250	1.7	88	10.1	9.5	A
14544.0	5.8	253	1.7	88	10.2	9.6	A
14546.0	6.6	240	1.7	88	10.2	9.7	A
14548.0	7.3	245	1.7	88	10.3	9.8	A
14550.0	7.3	246	1.7	88	10.4	9.9	A
14552.0			1.7	88	10.5	9.9	
14554.0			1.7	89	10.5	10.0	
14556.0			1.7	89	10.5	10.0	
14558.0			1.7	89	10.5	10.0	
14560.0	15.9	58	1.7	90	10.5	10.0	D
14562.0			1.8	90	10.5	10.1	
14564.0			1.8	90	10.5	10.1	
14566.0	3.7	179	1.8	90	10.6	10.1	B
14568.0	3.9	205	1.8	90	10.6	10.2	B
14570.0	3.9	208	1.7	91	10.5	10.1	B
14572.0	3.7	234	1.7	91	10.5	10.1	B
14574.0	13.8	70	1.7	92	10.5	10.1	D
14576.0	13.4	67	1.7	91	10.5	10.1	D
14578.0			1.7	91	10.5	10.2	
14580.0			1.7	92	10.5	10.3	
14582.0	11.3	244	1.7	93	10.4	10.3	D
14584.0	12.2	258	1.8	94	10.4	10.3	D
14586.0	1.2	303	1.8	94	10.4	10.3	D
14588.0	2.0	228	1.8	93	10.3	10.3	D
14590.0	5.0	177	1.8	93	10.4	10.3	D
14592.0			1.8	94	10.4	10.2	
14594.0	2.7	241	1.8	94	10.5	10.3	B
14596.0	4.5	189	1.8	94	10.5	10.3	D
14598.0			1.8	94	10.5	10.3	
14600.0	5.4	220	1.7	95	10.5	10.3	A
14602.0	3.8	207	1.8	94	10.5	10.4	C
14604.0	5.3	200	1.8	94	10.5	10.5	C
14606.0	5.1	203	1.8	94	10.6	10.6	C
14608.0	2.8	195	1.8	94	10.6	10.6	C
14610.0	3.7	215	1.8	95	10.6	10.7	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
14612.0	4.9	196	1.8	95	10.5	10.7	C
14614.0	4.9	196	1.7	96	10.5	10.7	C
14616.0			1.7	96	10.4	10.8	
14618.0	5.4	215	1.7	96	10.4	10.8	D
14620.0	4.5	164	1.7	96	10.3	10.6	D
14622.0			1.7	96	10.4	10.4	
14624.0			1.7	95	10.4	10.3	
14626.0			1.6	94	10.5	10.2	
14628.0	5.4	221	1.6	94	10.5	10.0	D
14630.0	5.7	224	1.6	96	10.5	9.9	B
14632.0	4.2	203	1.6	96	10.5	9.9	D
14634.0	4.5	232	1.6	95	10.5	9.8	B
14636.0	4.0	208	1.6	93	10.5	9.9	D
14638.0			1.6	92	10.5	9.9	
14640.0	14.2	229	1.6	93	10.5	9.9	D
14642.0			1.6	93	10.5	9.9	
14644.0	10.5	170	1.6	94	10.6	9.7	B
14646.0	10.2	177	1.5	93	10.6	9.6	B
14648.0	15.5	152	1.5	92	10.6	9.5	D
14650.0	16.4	151	1.5	91	10.7	9.6	D
14652.0	11.1	170	1.5	90	10.8	9.6	B
14654.0			1.5	89	10.9	9.6	
14656.0	20.5	178	1.6	89	11.0	9.6	D
14658.0	14.9	163	1.7	89	11.1	9.7	D
14660.0	3.8	275	1.7	89	11.3	9.7	D
14662.0	13.4	259	1.6	89	11.5	9.7	D
14664.0	4.4	231	1.5	89	11.6	9.9	D
14666.0	4.1	210	1.4	88	11.7	10.1	D
14668.0	6.0	193	1.4	88	11.8	10.1	D
14670.0	7.1	169	1.5	88	11.9	10.1	D
14672.0	8.6	138	1.5	88	11.9	10.1	D
14674.0	6.7	145	1.5	88	12.0	10.2	D
14676.0			1.5	88	12.1	10.2	
14678.0	5.3	243	1.5	89	12.2	10.2	D
14680.0	3.1	192	1.5	89	12.4	10.2	B
14682.0			1.6	89	12.5	10.3	
14684.0			1.6	88	12.4	10.3	
14686.0			1.6	89	12.4	10.3	
14688.0	84.3	193	1.6	90	12.4	10.3	D
14690.0			1.7	90	12.4	10.3	

Schlumber

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
14692.0			1.7	90	12.4	10.3	
14694.0			1.7	90	12.4	10.4	
14696.0			1.7	90	12.4	10.4	
14698.0			1.7	90	12.3	10.5	
14700.0			1.6	88	12.2	10.5	
14702.0			1.6	87	12.2	10.4	
14704.0	39.7	308	1.6	87	12.1	10.4	B
14706.0	41.9	298	1.6	88	12.0	10.3	D
14708.0	8.6	109	1.6	90	12.1	10.3	D
14710.0			1.6	91	12.6	10.2	
14712.0	74.9	119	1.6	89	12.4	10.2	D
14714.0	46.6	303	1.6	88	11.9	10.2	D
14716.0	11.8	269	1.6	88	11.8	10.2	D
14718.0	13.9	272	1.6	89	11.8	10.2	D
14720.0	8.7	264	1.6	89	11.8	10.2	D
14722.0	6.6	197	1.6	89	11.8	10.2	D
14724.0	6.2	88	1.6	90	11.8	10.2	D
14726.0	2.2	294	1.6	91	11.8	10.2	D
14728.0	1.9	30	1.6	92	11.7	10.2	D
14730.0	2.1	21	1.6	92	11.7	10.2	B
14732.0	2.4	25	1.6	92	11.6	10.2	B
14734.0	5.1	60	1.6	91	11.5	10.2	D
14736.0			1.6	91	11.4	10.2	
14738.0			1.6	89	11.3	10.2	
14740.0			1.6	86	11.1	10.3	
14742.0	4.5	208	1.6	85	11.0	10.2	D
14744.0	5.5	230	1.6	87	10.9	10.2	D
14746.0	5.2	198	1.6	88	10.7	10.2	B
14748.0	4.6	200	1.6	88	10.6	10.1	B
14750.0	9.9	169	1.7	87	10.5	10.0	D
14752.0	8.0	171	1.7	87	10.5	9.9	D
14754.0	5.6	195	1.7	87	10.4	9.9	B
14756.0	6.2	219	1.7	87	10.4	9.8	D
14758.0	11.3	131	1.7	87	10.3	9.8	D
14760.0			1.7	90	10.7	9.7	
14762.0	5.3	209	1.6	93	10.7	9.6	D
14764.0	6.4	194	1.6	92	10.3	9.6	B
14766.0	3.3	212	1.6	91	10.3	9.6	B
14768.0	7.5	191	1.6	90	10.3	9.6	D
14770.0	7.0	203	1.6	89	10.3	9.7	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
14772.0	4.8	227	1.6	89	10.4	9.7	D
14774.0			1.6	88	10.4	9.7	
14776.0	7.9	225	1.6	89	10.5	9.8	D
14778.0	7.3	219	1.6	89	10.5	9.8	B
14780.0	6.6	202	1.6	89	10.6	9.9	B
14782.0	49.1	316	1.6	89	10.7	9.9	D
14784.0	6.0	224	1.6	88	10.8	10.0	A
14786.0	8.3	202	1.6	89	10.9	10.1	C
14788.0	8.7	207	1.6	89	10.9	10.2	A
14790.0	3.0	200	1.6	89	11.0	10.2	C
14792.0	6.1	220	1.6	89	11.1	10.3	C
14794.0	6.1	241	1.6	89	11.3	10.4	C
14796.0	7.1	231	1.6	88	11.3	10.6	C
14798.0	8.5	186	1.6	86	11.4	10.7	C
14800.0	3.0	237	1.6	85	11.5	10.8	A
14802.0	2.9	237	1.6	85	11.6	10.9	A
14804.0			1.6	86	11.7	11.0	
14806.0			1.6	87	11.9	11.1	
14808.0			1.6	87	12.1	11.3	
14810.0			1.6	87	12.1	11.4	
14812.0			1.6	87	12.1	11.4	
14814.0			1.6	87	12.1	11.4	
14816.0			1.7	86	12.0	11.3	
14818.0			1.6	85	11.9	11.2	
14820.0			1.6	86	11.9	11.1	
14822.0			1.5	87	11.8	11.1	
14824.0	12.1	218	1.6	86	11.7	11.0	B
14826.0	11.9	220	1.6	86	11.6	10.9	D
14828.0	81.2	137	1.6	84	11.5	10.8	D
14830.0	81.4	133	1.5	81	11.3	10.8	D
14832.0			1.5	79	11.2	10.7	
14834.0			1.6	80	11.0	10.7	
14836.0	6.5	251	1.6	81	10.9	10.6	D
14838.0			1.6	80	10.8	10.6	
14840.0	18.6	213	1.6	79	10.7	10.6	D
14842.0			1.6	78	10.6	10.5	
14844.0			1.6	76	10.6	10.5	
14846.0			1.6	76	10.4	10.5	
14848.0			1.5	77	10.3	10.5	
14850.0			1.5	79	10.2	10.6	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
14852.0			1.5	81	10.2	10.7	
14854.0			1.5	81	10.2	10.7	
14856.0			1.6	80	10.2	10.8	
14858.0			1.6	80	10.2	10.9	
14860.0			1.6	79	10.2	11.0	
14862.0			1.6	79	10.2	11.1	
14864.0			1.6	78	10.1	11.2	
14866.0	12.2	210	1.6	78	10.1	11.3	D
14868.0	13.1	208	1.5	78	10.1	11.4	D
14870.0			1.6	79	10.2	11.5	
14872.0			1.5	78	10.2	11.6	
14874.0			1.5	77	10.2	11.7	
14876.0			1.6	77	10.3	11.7	
14878.0	29.9	167	1.6	77	10.3	11.8	D
14880.0	29.9	167	1.6	77	10.3	11.9	D
14882.0	26.5	157	1.6	77	10.3	12.0	D
14884.0			1.6	77	10.3	12.1	
14886.0			1.6	77	10.3	12.2	
14888.0			1.6	76	10.3	12.2	
14890.0			1.7	76	10.3	12.2	
14892.0			1.7	76	10.3	12.3	
14894.0			1.7	74	10.3	12.2	
14896.0			1.7	74	10.3	12.3	
14898.0			1.7	74	10.3	12.2	
14900.0			1.7	75	10.2	12.1	
14902.0			1.7	75	10.2	12.1	
14904.0			1.8	76	10.2	12.1	
14906.0			1.8	76	10.1	12.0	
14908.0			1.8	76	10.2	12.1	
14910.0			1.8	73	10.3	11.5	
14912.0			1.8	72	10.4	10.9	
14914.0			1.8	71	10.4	10.8	
14916.0			1.8	71	10.4	10.9	
14918.0			1.8	74	10.5	10.9	
14920.0	34.1	251	1.8	74	10.5	10.9	D
14922.0	32.6	259	1.9	72	10.6	11.0	B
14924.0	5.3	336	1.9	71	10.6	11.1	C
14926.0	11.9	359	2.0	71	10.7	11.3	A
14928.0	6.6	25	1.9	72	11.0	11.7	A
14930.0	6.9	357	1.8	72	11.0	12.0	C

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
14932.0	5.2	358	1.8	70	10.9	11.8	A
14934.0	4.0	50	1.7	69	10.9	11.7	C
14936.0	3.4	325	1.7	68	10.9	11.7	C
14938.0	2.2	342	1.7	68	11.0	11.8	C
14940.0	1.4	317	1.7	69	11.0	11.8	A
14942.0	20.0	193	1.7	70	11.0	11.7	D
14944.0			1.7	70	11.0	11.7	
14946.0			1.7	71	11.0	11.7	
14948.0	44.9	60	1.7	71	11.0	11.7	D
14950.0			1.7	70	11.0	11.7	
14952.0			1.7	70	11.0	11.8	
14954.0			1.7	70	10.9	11.8	
14956.0			1.7	69	10.9	11.8	
14958.0			1.6	67	10.9	11.7	
14960.0			1.6	66	10.9	11.7	
14962.0			1.7	67	11.0	11.6	
14964.0	13.4	274	1.7	67	11.0	11.6	D
14966.0	14.0	268	1.6	67	11.1	11.5	D
14968.0			1.7	68	11.1	11.4	
14970.0	17.7	282	1.6	68	11.1	11.3	D
14972.0			1.6	68	11.1	11.2	
14974.0			1.6	66	11.1	11.2	
14976.0			1.6	62	11.1	11.1	
14978.0			1.6	58	11.1	11.0	
14980.0	9.5	292	1.6	58	11.0	10.9	D
14982.0			1.7	59	10.9	10.8	
14984.0	5.2	108	1.7	60	10.9	10.7	C
14986.0	8.4	15	1.6	61	10.8	10.5	C
14988.0	3.6	210	1.6	61	10.7	10.4	A
14990.0	3.2	151	1.6	61	10.6	10.3	A
14992.0	4.3	18	1.6	61	10.6	10.3	C
14994.0	1.0	250	1.6	63	10.6	10.2	A
14996.0	1.0	258	1.5	65	10.6	10.2	A
14998.0	4.9	137	1.5	65	10.6	10.2	C
15000.0			1.5	65	10.6	10.2	
15002.0			1.6	65	10.6	10.1	
15004.0			1.6	67	10.6	10.1	
15006.0	4.8	288	1.6	69	10.6	10.2	D
15008.0			1.5	70	10.7	10.2	
15010.0			1.5	71	10.8	10.2	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15012.0			1.5	72	10.9	10.3	
15014.0			1.5	72	10.9	10.3	
15016.0	0.3	229	1.5	71	11.0	10.3	D
15018.0	2.9	102	1.5	66	11.0	10.3	D
15020.0	0.9	99	1.5	67	11.0	10.4	D
15022.0	2.9	325	1.5	73	11.1	10.4	B
15024.0	3.7	291	1.6	74	11.2	10.4	D
15026.0			1.7	75	11.3	10.5	
15028.0			1.7	74	11.3	10.6	
15030.0			1.7	72	11.4	10.7	
15032.0			1.7	72	11.4	10.8	
15034.0			1.7	73	11.4	10.9	
15036.0	4.2	213	1.7	72	11.4	11.0	B
15038.0	5.4	241	1.7	74	11.3	11.0	D
15040.0			1.8	77	11.3	11.0	
15042.0			1.8	77	11.2	11.1	
15044.0			1.8	78	11.2	11.1	
15046.0			1.8	80	11.1	11.1	
15048.0			1.9	80	11.0	11.1	
15050.0			1.9	79	11.0	11.1	
15052.0			1.9	79	10.9	11.1	
15054.0			1.9	80	10.9	11.0	
15056.0			1.9	81	10.9	10.9	
15058.0			1.9	83	10.9	10.8	
15060.0			1.8	83	10.8	10.7	
15062.0			1.9	84	10.8	10.6	
15064.0	4.1	244	1.9	84	10.8	10.5	A
15066.0	3.4	264	1.9	83	10.7	10.4	C
15068.0	2.9	278	1.9	82	10.5	10.4	C
15070.0	3.5	276	1.9	83	10.4	10.3	C
15072.0	2.4	277	1.9	85	10.3	10.4	D
15074.0			1.9	86	10.4	10.4	
15076.0	4.2	268	1.9	85	10.4	10.5	B
15078.0	4.0	258	1.9	83	10.4	10.5	D
15080.0	5.3	247	1.9	83	10.5	10.6	D
15082.0			1.9	84	10.5	10.7	
15084.0	8.6	296	1.9	85	10.4	10.8	D
15086.0			1.9	86	10.3	10.9	
15088.0	9.4	261	2.0	85	10.3	11.0	B
15090.0			2.0	84	10.3	11.1	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15092.0			2.0	85	10.2	11.1	
15094.0			2.1	85	10.1	11.1	
15096.0			2.1	85	10.1	11.1	
15098.0	6.0	319	2.1	85	10.1	11.1	A
15100.0	6.1	322	2.1	85	10.1	11.0	A
15102.0	8.3	327	2.1	85	10.0	11.0	A
15104.0			2.1	85	10.0	10.9	
15106.0	6.9	312	2.1	85	10.0	10.9	A
15108.0	7.1	314	2.1	86	9.9	10.8	A
15110.0	6.0	282	2.1	86	9.9	10.8	C
15112.0			2.1	86	9.9	10.7	
15114.0	7.1	215	2.1	87	10.0	10.7	C
15116.0			2.1	88	10.0	10.6	
15118.0	5.3	341	2.1	90	9.9	10.6	D
15120.0	6.0	339	2.1	90	9.8	10.5	D
15122.0			2.1	89	9.7	10.5	
15124.0	0.7	103	2.0	89	9.7	10.5	B
15126.0	2.1	41	2.0	89	9.7	10.4	D
15128.0	2.2	308	2.0	90	9.7	10.3	D
15130.0	1.7	312	2.0	89	9.7	10.2	B
15132.0			2.0	89	9.8	10.1	
15134.0			2.0	89	9.8	10.1	
15136.0			2.1	89	9.7	10.1	
15138.0			2.1	90	9.8	10.1	
15140.0			2.1	90	10.0	10.1	
15142.0	61.9	127	2.1	90	10.2	10.0	D
15144.0	60.5	126	2.1	90	10.2	10.0	D
15146.0			2.1	89	10.1	10.1	
15148.0			2.1	89	9.9	10.1	
15150.0	5.4	202	2.1	89	9.8	10.1	D
15152.0	4.3	191	2.1	89	9.7	10.0	D
15154.0			2.1	90	9.6	10.1	
15156.0	14.0	176	2.1	91	9.6	10.1	A
15158.0	13.2	179	2.1	91	9.5	10.2	A
15160.0	4.0	140	2.1	91	9.5	10.2	C
15162.0	8.0	157	2.1	92	9.5	10.2	A
15164.0	6.9	177	2.1	93	9.5	10.3	A
15166.0	3.5	265	2.1	93	9.5	10.4	C
15168.0			2.1	92	9.5	10.5	
15170.0			2.1	91	9.5	10.6	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15172.0	6.3	167	2.1	91	9.5	10.8	A
15174.0	1.2	163	2.1	90	9.5	11.0	A
15176.0	4.9	167	2.1	90	9.6	11.2	B
15178.0	5.9	167	2.1	91	9.6	11.4	B
15180.0			2.2	91	9.6	11.6	
15182.0			2.2	90	9.6	11.8	
15184.0			2.2	91	9.6	11.9	
15186.0			2.2	91	9.7	12.0	
15188.0			2.2	92	9.7	12.0	
15190.0			2.2	93	9.8	12.1	
15192.0			2.2	92	9.8	12.3	
15194.0	5.6	91	2.3	91	9.8	12.5	D
15196.0	21.4	267	2.3	93	9.8	12.2	B
15198.0	21.3	268	2.3	92	9.8	12.1	B
15200.0	27.2	262	2.3	91	9.7	12.0	D
15202.0	6.8	219	2.3	93	9.7	11.7	D
15204.0	5.9	215	2.3	93	9.6	11.5	B
15206.0	0.7	316	2.3	92	9.6	11.4	D
15208.0	0.6	322	2.3	92	9.6	11.4	D
15210.0			2.3	91	9.6	11.3	
15212.0	2.6	218	2.3	91	9.6	11.3	D
15214.0	17.5	257	2.3	92	9.6	11.3	D
15216.0	2.8	347	2.3	92	9.6	11.3	D
15218.0			2.3	91	9.7	11.3	
15220.0			2.3	91	9.8	11.3	
15222.0			2.2	92	10.0	11.5	
15224.0	9.3	321	2.2	93	10.1	11.6	D
15226.0			2.2	93	10.2	11.6	
15228.0			2.3	93	10.3	11.7	
15230.0	5.0	237	2.3	93	10.5	11.7	D
15232.0	2.6	256	2.3	93	10.5	11.7	D
15234.0	2.8	278	2.4	92	10.6	11.7	B
15236.0	2.9	227	2.4	91	10.6	11.7	A
15238.0	2.8	223	2.4	90	10.6	11.6	A
15240.0	1.7	238	2.4	89	10.5	11.6	C
15242.0	1.6	238	2.4	87	10.5	11.6	C
15244.0	3.8	321	2.4	88	10.6	11.6	B
15246.0	2.6	291	2.3	88	10.6	11.6	B
15248.0	2.8	292	2.3	89	10.5	11.5	B
15250.0			2.3	89	10.4	11.4	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15252.0	8.3	354	2.3	90	10.3	11.3	D
15254.0	2.1	322	2.3	91	10.3	11.2	D
15256.0	41.5	307	2.3	91	10.2	11.1	B
15258.0	40.8	306	2.3	91	10.2	11.0	D
15260.0	40.5	304	2.3	91	10.1	10.9	D
15262.0			2.3	92	10.0	10.8	
15264.0			2.3	92	9.9	10.7	
15266.0			2.3	92	9.9	10.6	
15268.0	1.3	312	2.3	91	9.9	10.6	B
15270.0	1.7	267	2.3	91	9.8	10.6	D
15272.0	33.6	145	2.3	92	9.8	10.6	B
15274.0	2.0	290	2.3	94	9.9	10.6	B
15276.0	1.9	279	2.3	96	9.9	10.6	B
15278.0			2.3	98	10.0	10.7	
15280.0			2.3	100	10.0	10.7	
15282.0	11.0	129	2.3	100	10.1	10.7	D
15284.0	12.1	127	2.3	100	10.0	10.8	B
15286.0			2.3	99	10.0	10.8	
15288.0			2.4	98	9.9	10.9	
15290.0	2.3	112	2.4	97	9.9	11.0	B
15292.0	2.2	105	2.4	98	10.0	11.1	B
15294.0	3.3	224	2.4	98	10.0	11.2	B
15296.0	4.0	262	2.4	98	10.1	11.2	D
15298.0			2.4	99	10.1	11.3	
15300.0			2.4	101	10.1	11.3	
15302.0			2.4	102	10.1	11.3	
15304.0			2.4	103	10.1	11.2	
15306.0			2.4	103	10.1	11.2	
15308.0			2.4	103	10.1	11.1	
15310.0			2.4	103	10.1	11.0	
15312.0			2.4	103	10.1	10.9	
15314.0			2.4	104	10.1	10.9	
15316.0	34.6	178	2.4	104	10.1	10.8	D
15318.0			2.4	104	10.1	10.8	
15320.0	6.4	328	2.5	105	10.0	10.7	D
15322.0	3.2	17	2.5	105	9.9	10.7	D
15324.0	1.2	4	2.5	105	9.9	10.6	B
15326.0	32.6	169	2.5	106	9.8	10.6	B
15328.0	34.4	169	2.5	106	9.7	10.5	B
15330.0			2.5	107	9.7	10.5	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15332.0	5.5	290	2.5	107	9.7	10.5	D
15334.0	4.7	100	2.5	109	9.7	10.5	D
15336.0	5.6	98	2.5	110	9.7	10.5	D
15338.0			2.5	106	9.7	10.6	
15340.0	36.1	301	2.5	103	9.7	10.6	D
15342.0			2.6	103	9.8	10.5	
15344.0	40.1	304	2.6	101	9.8	10.4	D
15346.0	4.3	360	2.6	99	9.9	10.2	D
15348.0	5.2	350	2.6	97	10.0	10.0	B
15350.0	4.9	211	2.7	96	10.0	9.9	D
15352.0	7.1	237	2.7	97	9.9	9.8	D
15354.0			2.7	98	10.0	9.8	
15356.0			2.7	98	10.0	9.8	
15358.0	10.3	203	2.7	99	10.1	9.8	B
15360.0	10.5	198	2.7	99	10.1	9.7	B
15362.0	5.6	213	2.7	97	10.2	9.7	D
15364.0	4.5	229	2.7	97	10.2	9.6	D
15366.0	10.3	203	2.7	96	10.2	9.6	D
15368.0	9.7	207	2.7	96	10.3	9.5	B
15370.0	9.2	190	2.7	96	10.3	9.5	A
15372.0	3.1	196	2.7	96	10.3	9.6	A
15374.0	1.9	183	2.7	95	10.3	9.6	A
15376.0	4.3	240	2.7	94	10.3	9.6	A
15378.0	3.6	233	2.7	93	10.4	9.6	A
15380.0	12.6	234	2.7	94	10.5	9.6	A
15382.0	5.6	292	2.7	94	10.5	9.6	A
15384.0	3.1	279	2.7	93	10.5	9.6	A
15386.0	2.2	241	2.7	93	10.6	9.7	C
15388.0	2.7	247	2.7	92	10.7	9.7	C
15390.0	1.9	189	2.7	93	10.8	9.8	A
15392.0	2.4	188	2.7	93	10.9	9.8	A
15394.0	3.3	234	2.7	93	10.9	9.9	C
15396.0	7.3	234	2.7	92	11.0	9.9	A
15398.0	6.9	219	2.8	91	11.0	9.9	A
15400.0	3.9	182	2.8	91	11.2	9.8	A
15402.0	2.7	259	2.8	93	11.2	9.7	A
15404.0	2.1	258	2.8	93	11.0	9.6	C
15406.0			2.8	93	11.0	9.7	
15408.0	8.0	186	2.8	93	11.0	9.7	C
15410.0	8.6	284	2.8	93	11.0	9.6	C

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15412.0	5.3	287	2.8	93	11.0	9.6	A
15414.0	7.7	281	2.8	93	11.0	9.6	C
15416.0	8.4	279	2.8	93	11.0	9.6	A
15418.0	2.2	264	2.8	93	11.0	9.6	C
15420.0	2.6	275	2.8	93	11.0	9.6	C
15422.0	3.0	304	2.8	93	11.1	9.7	C
15424.0	4.6	199	2.8	93	11.1	9.8	C
15426.0	5.1	192	2.8	93	11.2	9.9	A
15428.0	5.4	199	2.8	93	11.3	9.9	C
15430.0	3.9	273	2.8	93	11.3	9.9	C
15432.0	4.7	276	2.8	93	11.3	9.8	A
15434.0	3.9	278	2.8	93	11.3	9.7	C
15436.0	5.8	300	2.8	93	11.3	9.7	C
15438.0	5.9	299	2.8	94	11.4	9.7	C
15440.0	4.8	286	2.8	93	11.4	9.8	C
15442.0	3.5	268	2.8	91	11.4	9.8	A
15444.0	3.4	273	2.8	90	11.5	9.8	A
15446.0	2.7	324	2.8	89	11.5	9.9	C
15448.0	0.8	88	2.8	89	11.6	9.9	A
15450.0	0.1	85	2.8	90	11.6	10.0	D
15452.0	7.9	76	2.8	91	11.6	10.0	D
15454.0			2.8	91	11.6	10.0	
15456.0			2.8	92	11.5	10.1	
15458.0			2.8	93	11.5	10.1	
15460.0			2.8	93	11.4	10.1	
15462.0	2.1	241	2.8	93	11.3	10.2	B
15464.0	2.9	354	2.8	93	11.2	10.2	B
15466.0	7.0	40	2.8	93	11.1	10.1	D
15468.0	6.8	241	2.7	92	11.0	10.0	D
15470.0	16.8	258	2.7	92	10.9	10.0	D
15472.0			2.7	92	10.8	10.0	
15474.0			2.7	91	10.7	10.0	
15476.0	14.9	220	2.7	91	10.6	10.0	D
15478.0	12.5	217	2.7	92	10.5	10.0	D
15480.0	13.1	202	2.7	92	10.4	10.0	B
15482.0			2.7	91	10.4	10.1	
15484.0			2.7	91	10.3	10.2	
15486.0	12.9	261	2.7	90	10.3	10.3	D
15488.0			2.7	90	10.4	10.3	
15490.0	8.5	88	2.6	90	10.4	10.3	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15492.0	8.9	95	2.6	89	10.5	10.2	D
15494.0	8.2	127	2.6	89	10.5	10.2	D
15496.0	9.5	159	2.6	89	10.5	10.2	D
15498.0			2.6	88	10.5	10.2	
15500.0	10.6	105	2.6	87	10.6	10.2	D
15502.0	12.7	133	2.6	87	10.6	10.2	B
15504.0	10.9	133	2.6	86	10.6	10.2	B
15506.0			2.5	86	10.6	10.2	
15508.0			2.5	86	10.7	10.2	
15510.0	4.7	163	2.5	86	10.7	10.2	D
15512.0			2.5	85	10.7	10.3	
15514.0	4.4	51	2.5	85	10.7	10.3	D
15516.0	6.7	132	2.5	84	10.7	10.3	D
15518.0	7.8	138	2.5	83	10.7	10.4	D
15520.0			2.4	83	10.8	10.4	
15522.0	12.1	64	2.4	82	10.8	10.4	B
15524.0	7.9	72	2.4	82	10.8	10.5	B
15526.0			2.4	81	10.8	10.5	
15528.0	11.6	10	2.4	80	10.8	10.5	D
15530.0			2.4	80	10.8	10.4	
15532.0			2.4	80	10.8	10.4	
15534.0			2.4	81	10.8	10.4	
15536.0			2.4	80	10.8	10.5	
15538.0	11.3	226	2.4	80	10.9	10.6	A
15540.0			2.4	80	10.9	10.7	
15542.0	7.2	237	2.4	79	11.0	10.7	A
15544.0	6.9	234	2.3	79	10.9	10.7	A
15546.0	11.1	227	2.3	80	10.8	10.6	A
15548.0			2.3	80	10.8	10.7	
15550.0			2.2	79	10.8	10.7	
15552.0			2.2	79	10.7	10.7	
15554.0			2.1	77	10.6	10.8	
15556.0	16.1	330	2.1	76	10.5	10.9	D
15558.0			2.0	77	10.3	11.1	
15560.0			2.0	78	10.3	11.2	
15562.0			2.0	80	10.3	11.3	
15564.0	14.4	4	2.0	80	10.3	11.3	B
15566.0	14.6	2	2.0	80	10.2	11.4	B
15568.0			2.0	79	10.2	11.4	
15570.0			2.0	79	10.2	11.5	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15572.0	28.7	298	2.0	80	10.2	11.6	D
15574.0			2.0	80	10.3	11.7	
15576.0			2.0	79	10.3	11.7	
15578.0			1.9	78	10.3	11.8	
15580.0			1.9	78	10.4	11.9	
15582.0	32.7	304	1.9	77	10.4	12.0	D
15584.0			1.9	77	10.4	12.0	
15586.0			1.9	78	10.5	12.0	
15588.0			1.9	78	10.5	12.1	
15590.0			1.9	79	10.5	12.1	
15592.0			1.9	79	10.6	12.2	
15594.0			1.8	79	10.6	12.3	
15596.0			1.8	80	10.7	12.3	
15598.0			1.8	81	10.7	12.4	
15600.0	81.0	330	1.8	82	10.7	12.5	B
15602.0	80.8	327	1.8	81	10.7	12.5	D
15604.0			1.8	80	10.8	12.6	
15606.0			1.8	80	10.8	12.6	
15608.0			1.8	81	10.8	12.6	
15610.0			1.8	80	10.8	12.5	
15612.0			1.8	80	10.8	12.4	
15614.0			1.8	79	10.8	12.1	
15616.0			1.8	74	10.9	11.9	
15618.0			1.8	68	10.9	11.7	
15620.0			1.8	68	10.9	11.6	
15622.0			1.8	68	10.8	11.5	
15624.0			1.8	70	10.8	11.4	
15626.0			1.8	71	10.8	11.3	
15628.0			1.7	69	10.8	11.2	
15630.0	4.8	282	1.7	69	10.8	11.1	A
15632.0	5.2	282	1.7	70	10.7	11.0	A
15634.0	5.6	284	1.7	69	10.7	10.9	C
15636.0	4.0	286	1.7	69	10.7	10.8	C
15638.0	1.3	240	1.8	68	10.7	10.8	D
15640.0	10.8	264	1.8	68	10.7	10.8	D
15642.0			1.8	67	10.7	10.8	
15644.0	8.6	143	1.9	67	10.7	10.7	B
15646.0	2.5	124	1.9	69	10.7	10.6	B
15648.0	8.6	201	1.8	71	10.6	10.6	D
15650.0	6.3	4	1.8	71	10.5	10.5	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15652.0	8.3	327	1.7	71	10.5	10.5	D
15654.0	5.7	10	1.7	73	10.5	10.4	B
15656.0	5.2	11	1.7	73	10.5	10.4	B
15658.0	3.7	280	1.7	74	10.5	10.4	B
15660.0	3.5	284	1.6	74	10.6	10.5	D
15662.0	8.7	233	1.6	75	10.6	10.5	C
15664.0	8.6	233	1.6	76	10.6	10.6	C
15666.0	7.2	148	1.6	76	10.6	10.6	C
15668.0	3.3	233	1.6	76	10.6	10.5	A
15670.0	2.5	204	1.6	77	10.7	10.5	A
15672.0			1.6	77	10.7	10.5	
15674.0			1.6	78	10.7	10.5	
15676.0	3.7	35	1.6	78	10.7	10.5	A
15678.0	5.5	31	1.6	78	10.7	10.5	A
15680.0	6.6	37	1.5	80	10.7	10.5	C
15682.0			1.5	82	10.7	10.6	
15684.0			1.5	82	10.7	10.6	
15686.0			1.5	82	10.7	10.6	
15688.0			1.5	82	10.8	10.7	
15690.0			1.5	82	10.8	10.7	
15692.0			1.5	83	10.9	10.8	
15694.0			1.5	83	11.0	10.8	
15696.0			1.6	83	10.9	10.7	
15698.0			1.6	84	10.9	10.7	
15700.0			1.6	84	10.8	10.6	
15702.0	9.2	232	1.5	84	10.7	10.6	D
15704.0	9.3	234	1.5	85	10.7	10.6	D
15706.0			1.5	86	10.7	10.6	
15708.0			1.6	86	10.7	10.5	
15710.0			1.6	88	10.6	10.5	
15712.0	5.0	248	1.6	90	10.6	10.4	B
15714.0	4.1	248	1.6	91	10.6	10.4	D
15716.0			1.6	93	10.6	10.4	
15718.0			1.6	94	10.6	10.4	
15720.0	6.0	328	1.5	95	10.6	10.4	D
15722.0	13.1	344	1.6	97	10.6	10.4	D
15724.0			1.7	99	10.6	10.4	
15726.0			1.7	101	10.6	10.4	
15728.0			1.7	101	10.6	10.4	
15730.0			1.7	102	10.6	10.4	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15732.0			1.7	103	10.6	10.4	
15734.0	14.9	305	1.7	103	10.5	10.3	B
15736.0			1.7	103	10.5	10.3	
15738.0	13.7	331	1.7	103	10.4	10.3	D
15740.0	13.0	338	1.7	103	10.4	10.2	D
15742.0	13.7	334	1.7	104	10.4	10.2	A
15744.0	13.5	335	1.7	104	10.4	10.2	A
15746.0	12.3	328	1.7	104	10.4	10.2	A
15748.0	11.1	333	1.7	104	10.4	10.2	C
15750.0	51.6	94	1.7	105	10.4	10.3	D
15752.0			1.7	106	10.4	10.3	
15754.0			1.7	106	10.4	10.3	
15756.0			1.8	104	10.3	10.2	
15758.0	34.5	181	1.7	101	10.3	10.3	D
15760.0	17.8	51	1.7	104	10.3	10.3	D
15762.0	18.5	42	1.7	107	10.3	10.3	D
15764.0	4.6	326	1.8	110	10.3	10.2	D
15766.0			1.8	113	10.3	10.2	
15768.0	3.2	258	1.9	112	10.3	10.2	D
15770.0	9.1	357	1.9	111	10.3	10.2	D
15772.0			1.9	112	10.4	10.2	
15774.0	2.9	340	2.0	114	10.4	10.3	B
15776.0	2.8	331	2.0	115	10.4	10.3	D
15778.0			2.0	113	10.4	10.4	
15780.0			2.0	110	10.4	10.4	
15782.0			2.0	109	10.4	10.5	
15784.0	2.4	298	2.0	109	10.4	10.6	A
15786.0	3.2	268	2.0	108	10.4	10.6	A
15788.0	3.7	267	2.1	108	10.3	10.6	A
15790.0	4.2	275	2.1	108	10.3	10.6	A
15792.0	1.3	347	2.1	108	10.3	10.6	C
15794.0	2.2	7	2.1	108	10.3	10.6	A
15796.0	2.0	360	2.1	109	10.3	10.5	A
15798.0	3.1	338	2.1	106	10.3	10.5	C
15800.0			2.1	105	10.3	10.4	
15802.0	10.0	340	2.1	108	10.3	10.4	B
15804.0			2.1	110	10.3	10.3	
15806.0			2.0	110	10.4	10.3	
15808.0	8.8	309	2.0	109	10.4	10.3	B
15810.0			2.0	107	10.5	10.2	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15812.0	5.7	248	2.0	107	10.5	10.2	D
15814.0			2.0	108	10.5	10.2	
15816.0	6.9	209	2.0	109	10.5	10.2	D
15818.0			2.0	111	10.6	10.2	
15820.0	2.5	292	2.0	112	10.6	10.2	D
15822.0	2.5	267	2.0	111	10.6	10.2	D
15824.0	5.1	232	2.0	112	10.6	10.2	D
15826.0			2.0	113	10.7	10.3	
15828.0			2.0	114	10.7	10.3	
15830.0	3.7	165	1.9	114	10.7	10.3	D
15832.0	0.8	259	1.9	113	10.8	10.4	B
15834.0	4.4	87	1.9	113	10.8	10.4	B
15836.0	5.2	76	1.9	113	10.7	10.4	D
15838.0	3.9	316	1.9	114	10.7	10.4	D
15840.0	2.2	349	1.9	113	10.7	10.4	D
15842.0			1.8	111	10.7	10.4	
15844.0			1.8	111	10.7	10.4	
15846.0	39.3	139	1.8	112	10.6	10.4	D
15848.0			1.8	110	10.6	10.4	
15850.0			1.7	107	10.5	10.4	
15852.0			1.7	107	10.5	10.5	
15854.0			1.7	109	10.4	10.5	
15856.0			1.7	109	10.4	10.5	
15858.0			1.6	108	10.4	10.6	
15860.0	6.5	207	1.6	109	10.3	10.6	B
15862.0	6.1	224	1.6	110	10.3	10.7	D
15864.0			1.6	110	10.3	10.7	
15866.0	9.4	141	1.5	110	10.3	10.8	D
15868.0			1.5	110	10.3	10.8	
15870.0			1.5	110	10.3	10.8	
15872.0			1.5	111	10.3	10.9	
15874.0			1.5	111	10.3	10.9	
15876.0			1.5	111	10.3	11.0	
15878.0			1.5	112	10.3	11.0	
15880.0			1.5	113	10.3	11.0	
15882.0			1.5	114	10.4	11.1	
15884.0			1.5	116	10.4	11.1	
15886.0	17.9	312	1.5	116	10.4	11.1	D
15888.0			1.5	116	10.4	11.1	
15890.0	78.8	159	1.5	116	10.3	11.0	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15892.0			1.5	116	10.3	10.9	
15894.0			1.5	116	10.3	10.9	
15896.0	2.7	254	1.4	117	10.3	10.9	D
15898.0	2.5	253	1.4	120	10.3	10.8	D
15900.0			1.4	122	10.3	10.8	
15902.0	3.7	229	1.5	119	10.3	10.7	D
15904.0	3.5	31	1.5	113	10.3	10.7	D
15906.0	5.9	228	1.5	110	10.3	10.7	B
15908.0	6.0	232	1.5	110	10.2	10.6	B
15910.0			1.4	110	10.2	10.6	
15912.0			1.4	111	10.2	10.6	
15914.0	1.3	131	1.4	112	10.1	10.6	D
15916.0	3.5	352	1.4	113	10.1	10.6	D
15918.0	5.5	121	1.4	117	10.1	10.7	D
15920.0	8.2	305	1.4	121	10.1	10.7	B
15922.0	30.2	167	1.4	122	10.1	10.7	B
15924.0			1.4	123	10.2	10.7	
15926.0			1.3	125	10.2	10.8	
15928.0			1.3	126	10.2	10.8	
15930.0	11.3	325	1.3	124	10.2	10.7	D
15932.0	9.3	247	1.3	119	10.1	10.7	D
15934.0	16.2	150	1.4	112	10.1	10.7	D
15936.0	14.4	144	1.4	109	10.1	10.6	B
15938.0			1.5	113	10.0	10.6	
15940.0	50.3	215	1.4	114	10.0	10.5	D
15942.0			1.3	114	10.0	10.5	
15944.0			1.3	114	10.0	10.4	
15946.0	51.8	220	1.3	113	10.0	10.4	D
15948.0	52.2	219	1.3	113	9.9	10.3	D
15950.0	27.0	132	1.3	114	9.9	10.2	D
15952.0	11.2	65	1.2	113	9.9	10.2	C
15954.0	5.1	216	1.2	113	9.9	10.1	C
15956.0	11.1	243	1.2	113	9.8	10.1	C
15958.0	5.6	253	1.3	113	9.8	10.1	A
15960.0	7.0	250	1.2	113	9.8	10.0	A
15962.0	5.3	286	1.2	113	9.8	10.0	C
15964.0	4.8	275	1.1	114	9.9	9.9	C
15966.0	2.4	200	1.1	113	10.0	9.9	A
15968.0	3.5	190	1.1	113	10.0	9.9	A
15970.0	6.1	179	1.1	115	9.9	9.9	C

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
15972.0			1.1	116	9.9	9.9	
15974.0			1.1	117	9.8	9.9	
15976.0			1.2	117	9.8	9.9	
15978.0			1.2	117	9.8	9.9	
15980.0			1.2	117	9.8	9.9	
15982.0			1.2	118	9.8	9.9	
15984.0			1.3	116	9.8	9.9	
15986.0			1.4	115	9.9	9.9	
15988.0			1.6	114	9.9	9.9	
15990.0			1.8	112	9.9	9.9	
15992.0	6.5	316	1.6	113	9.9	9.7	D
15994.0	6.9	334	1.4	116	9.9	9.5	D
15996.0			1.4	116	9.9	9.4	
15998.0	38.7	118	1.3	116	10.0	9.6	D
16000.0	1.9	125	1.2	116	10.0	9.8	D
16002.0	6.6	313	1.2	120	10.0	9.8	D
16004.0	34.3	267	1.3	123	10.1	9.9	D
16006.0	0.8	289	1.3	123	10.2	9.9	D
16008.0	0.9	308	1.3	122	10.2	9.9	D
16010.0	3.1	311	1.3	121	10.2	9.9	D
16012.0	1.8	340	1.3	122	10.3	9.9	B
16014.0	2.0	347	1.4	125	10.3	10.0	B
16016.0	6.4	242	1.3	126	10.4	10.0	D
16018.0			1.3	126	10.4	10.0	
16020.0	2.9	328	1.3	125	10.5	10.1	D
16022.0	4.7	297	1.3	123	10.6	10.1	D
16024.0	5.3	221	1.3	123	10.6	10.1	D
16026.0	2.4	241	1.4	122	10.7	10.2	D
16028.0			1.4	123	10.8	10.2	
16030.0			1.5	125	10.8	10.3	
16032.0	2.8	297	1.5	125	10.8	10.3	D
16034.0	3.2	277	1.5	124	10.9	10.3	B
16036.0	3.0	289	1.5	121	10.9	10.4	B
16038.0	2.4	279	1.5	121	10.9	10.4	D
16040.0			1.5	120	10.8	10.4	
16042.0	8.7	242	1.6	122	10.8	10.4	D
16044.0	5.9	248	1.7	130	10.8	10.4	D
16046.0	5.2	285	1.7	133	10.7	10.5	B
16048.0	7.0	285	1.6	131	10.7	10.5	B
16050.0	14.6	123	1.5	129	10.7	10.5	B

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16052.0	8.0	357	1.5	127	10.6	10.6	B
16054.0	1.2	185	1.5	127	10.6	10.6	B
16056.0	7.0	297	1.5	127	10.6	10.6	D
16058.0	6.1	360	1.5	126	10.5	10.7	D
16060.0			1.5	126	10.5	10.7	
16062.0			1.6	128	10.5	10.7	
16064.0	1.5	150	1.6	128	10.5	10.8	D
16066.0	2.2	295	1.7	127	10.5	10.8	B
16068.0	2.2	288	1.7	127	10.4	10.9	D
16070.0	4.5	305	1.6	127	10.3	10.9	A
16072.0	3.3	304	1.6	127	10.3	10.9	A
16074.0	3.8	306	1.7	128	10.4	10.9	A
16076.0	3.6	309	1.7	126	10.4	11.0	A
16078.0			1.7	123	10.4	11.0	
16080.0			1.7	122	10.4	11.0	
16082.0			1.7	122	10.4	11.0	
16084.0			1.7	122	10.5	11.0	
16086.0			1.7	124	10.5	11.0	
16088.0			1.7	124	10.5	11.0	
16090.0			1.7	124	10.5	11.0	
16092.0			1.7	124	10.6	11.0	
16094.0			1.7	123	10.6	11.0	
16096.0			1.7	123	10.6	11.0	
16098.0	0.9	321	1.7	123	10.7	11.0	B
16100.0	0.9	298	1.7	123	10.7	11.0	B
16102.0			1.7	123	10.7	11.0	
16104.0			1.7	123	10.7	11.0	
16106.0	4.1	322	1.7	124	10.8	11.0	D
16108.0	2.9	313	1.7	124	10.8	11.0	D
16110.0			1.7	123	10.8	10.9	
16112.0			1.7	122	10.8	10.9	
16114.0	3.7	67	1.7	120	10.8	10.9	D
16116.0			1.7	120	10.9	10.9	
16118.0			1.7	121	10.9	10.9	
16120.0			1.7	121	11.0	10.9	
16122.0			1.7	121	11.0	10.9	
16124.0			1.7	122	11.0	11.0	
16126.0			1.7	123	11.0	11.0	
16128.0	6.7	214	1.6	123	11.0	11.0	D
16130.0	6.2	222	1.6	125	11.1	11.0	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16132.0	2.8	285	1.6	123	11.2	11.0	B
16134.0	3.1	279	1.6	122	11.3	11.0	B
16136.0			1.6	123	11.4	11.0	
16138.0			1.6	122	11.4	11.0	
16140.0			1.6	121	11.4	11.0	
16142.0			1.6	119	11.4	11.0	
16144.0			1.6	119	11.4	11.0	
16146.0			1.6	119	11.4	10.9	
16148.0			1.6	119	11.5	10.9	
16150.0			1.6	117	11.5	10.9	
16152.0			1.6	118	11.5	10.9	
16154.0			1.6	118	11.5	10.9	
16156.0			1.6	119	11.5	10.9	
16158.0	6.1	196	1.5	120	11.5	10.8	D
16160.0			1.5	119	11.5	10.8	
16162.0			1.4	119	11.5	10.8	
16164.0			1.4	120	11.5	10.8	
16166.0			1.3	119	11.4	10.7	
16168.0			1.3	118	11.4	10.7	
16170.0			1.2	120	11.2	10.7	
16172.0			1.2	121	11.0	10.8	
16174.0	2.3	281	1.2	120	10.9	10.9	D
16176.0	1.3	264	1.2	121	10.7	10.9	B
16178.0	7.3	252	1.2	120	10.7	10.9	A
16180.0	7.0	246	1.2	115	10.6	10.9	A
16182.0	7.8	220	1.2	114	10.6	11.0	C
16184.0	7.3	242	1.2	116	10.6	10.9	C
16186.0	5.9	330	1.3	118	10.5	10.9	C
16188.0	3.5	244	1.3	118	10.5	10.8	A
16190.0	4.2	233	1.3	120	10.5	10.8	A
16192.0	2.4	304	1.3	121	10.5	10.7	A
16194.0	2.2	308	1.3	121	10.5	10.7	A
16196.0	3.8	302	1.3	122	10.5	10.6	A
16198.0	4.4	311	1.2	124	10.4	10.5	A
16200.0	8.2	320	1.3	125	10.4	10.5	A
16202.0	8.2	315	1.3	124	10.3	10.4	A
16204.0	7.6	43	1.3	126	10.4	10.4	C
16206.0			1.4	127	10.4	10.4	
16208.0			1.4	129	10.4	10.4	
16210.0	2.4	329	1.5	132	10.4	10.4	B

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16212.0	4.1	291	1.5	132	10.4	10.5	B
16214.0	3.4	303	1.5	132	10.4	10.5	D
16216.0			1.6	133	10.4	10.5	
16218.0			1.6	133	10.5	10.6	
16220.0			1.6	132	10.5	10.6	
16222.0			1.6	131	10.5	10.5	
16224.0			1.6	128	10.5	10.5	
16226.0			1.6	127	10.4	10.5	
16228.0			1.6	129	10.5	10.5	
16230.0			1.5	129	10.5	10.5	
16232.0			1.5	128	10.5	10.5	
16234.0	13.6	77	1.5	125	10.5	10.5	D
16236.0	13.5	72	1.4	125	10.5	10.5	D
16238.0	11.4	110	1.4	125	10.5	10.5	D
16240.0			1.4	123	10.5	10.5	
16242.0			1.4	123	10.5	10.5	
16244.0			1.3	123	10.5	10.5	
16246.0			1.3	123	10.5	10.5	
16248.0			1.3	124	10.5	10.5	
16250.0			1.3	123	10.5	10.5	
16252.0			1.3	123	10.5	10.5	
16254.0			1.3	125	10.5	10.6	
16256.0			1.3	126	10.5	10.6	
16258.0			1.3	130	10.4	10.6	
16260.0			1.3	128	10.4	10.6	
16262.0			1.3	127	10.4	10.5	
16264.0	16.6	277	1.3	130	10.4	10.5	D
16266.0	15.5	273	1.2	133	10.3	10.4	D
16268.0	15.3	298	1.2	133	10.3	10.4	D
16270.0	4.8	125	1.1	131	10.3	10.3	B
16272.0	1.1	10	1.1	131	10.3	10.3	B
16274.0	1.8	341	1.1	132	10.2	10.2	B
16276.0	2.6	96	1.2	135	10.2	10.1	D
16278.0	7.5	215	1.2	136	10.1	10.1	D
16280.0	4.4	96	1.2	138	10.1	10.1	D
16282.0	2.4	285	1.2	139	10.0	10.1	B
16284.0			1.3	140	10.0	10.0	
16286.0	5.1	307	1.3	143	9.9	10.0	D
16288.0	2.4	359	1.3	145	9.9	10.0	B
16290.0	0.2	28	1.3	146	9.8	9.9	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16292.0	0.2	14	1.3	149	9.8	9.8	A
16294.0	0.8	290	1.3	152	9.7	9.8	A
16296.0	0.7	279	1.3	155	9.7	9.8	A
16298.0	0.5	310	1.3	154	9.8	9.8	A
16300.0	1.0	325	1.3	150	9.8	9.8	A
16302.0	0.2	157	1.3	146	9.8	9.8	A
16304.0	2.5	278	1.3	140	9.8	9.8	C
16306.0	3.9	227	1.2	137	9.8	9.8	B
16308.0			1.2	136	9.7	9.8	
16310.0			1.2	135	9.6	9.8	
16312.0			1.2	134	9.7	9.8	
16314.0			1.1	131	9.7	9.8	
16316.0	2.5	304	1.1	129	9.7	9.7	D
16318.0	1.5	159	1.0	130	9.6	9.6	D
16320.0	0.7	155	1.0	128	9.6	9.5	D
16322.0	0.4	223	1.0	125	9.7	9.6	B
16324.0	2.6	36	1.0	126	9.7	9.6	B
16326.0	2.7	23	1.0	133	9.6	9.6	B
16328.0	0.4	260	1.0	137	9.6	9.6	B
16330.0	0.6	40	0.9	136	9.6	9.7	B
16332.0	26.1	180	0.8	135	9.7	9.8	B
16334.0			0.9	137	9.7	9.8	
16336.0	4.5	65	1.0	136	9.7	9.8	D
16338.0	5.3	284	1.0	135	9.7	9.8	D
16340.0			1.0	134	9.7	9.8	
16342.0			1.0	133	9.8	9.8	
16344.0	4.1	313	1.0	133	9.8	9.7	B
16346.0	4.7	113	1.1	136	9.8	9.7	D
16348.0	4.5	112	1.2	141	9.8	9.7	D
16350.0			1.1	144	9.8	9.7	
16352.0	3.8	20	1.1	145	9.8	9.6	D
16354.0	2.7	343	1.1	147	9.7	9.6	D
16356.0	1.4	146	1.1	147	9.7	9.6	D
16358.0	1.2	126	1.2	146	9.7	9.7	D
16360.0	3.0	35	1.2	148	9.7	9.8	D
16362.0	2.7	87	1.2	150	9.7	9.8	B
16364.0	2.2	92	1.3	150	9.6	9.8	D
16366.0	1.9	99	1.3	152	9.6	9.7	A
16368.0	1.9	86	1.3	155	9.5	9.7	A
16370.0	0.3	149	1.3	154	9.5	9.7	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16372.0	0.5	143	1.3	150	9.5	9.7	A
16374.0	2.8	168	1.3	147	9.6	9.7	A
16376.0	2.8	244	1.3	145	9.7	9.7	A
16378.0	5.2	257	1.3	141	9.7	9.7	A
16380.0	10.9	313	1.2	140	9.8	9.7	C
16382.0	11.2	300	1.2	137	9.7	9.4	C
16384.0	1.7	209	1.1	136	9.5	9.4	A
16386.0	0.5	243	1.1	136	9.5	9.5	A
16388.0	0.6	14	1.1	136	9.4	9.5	A
16390.0	2.8	106	1.1	137	9.4	9.5	A
16392.0	2.6	248	1.1	139	9.4	9.5	A
16394.0	1.1	67	1.0	138	9.5	9.5	A
16396.0	1.5	43	1.0	138	9.5	9.5	C
16398.0	0.7	127	0.9	141	9.5	9.5	C
16400.0	1.6	108	0.9	144	9.5	9.4	A
16402.0	1.8	68	0.8	144	9.6	9.4	C
16404.0	1.0	74	0.8	145	9.6	9.5	A
16406.0	1.2	65	0.9	150	9.7	9.6	A
16408.0	2.2	49	0.9	154	9.8	9.7	A
16410.0	4.6	13	0.9	158	9.9	9.8	D
16412.0	4.4	2	0.9	158	9.9	9.9	D
16414.0			0.9	153	10.0	10.1	
16416.0	4.4	178	1.0	151	10.0	10.2	D
16418.0	6.8	217	1.0	150	10.1	10.3	D
16420.0			1.0	149	10.1	10.4	
16422.0	4.0	255	1.0	151	10.2	10.4	D
16424.0	2.7	207	1.2	153	11.2	11.7	D
16426.0			1.2	156	14.6	15.3	
16428.0	2.5	325	1.2	156	14.3	14.7	D
16430.0	2.6	340	1.1	151	10.7	10.7	A
16432.0	2.1	333	1.1	147	10.0	9.9	A
16434.0	1.9	349	1.1	150	9.9	9.7	A
16436.0	2.7	326	1.1	152	9.8	9.7	A
16438.0	3.3	302	1.1	149	9.7	9.6	A
16440.0	1.5	314	1.1	146	9.6	9.5	C
16442.0	0.9	305	1.2	146	9.5	9.4	A
16444.0	0.5	315	1.2	147	9.4	9.4	A
16446.0	1.3	301	1.2	148	9.4	9.4	A
16448.0	1.7	306	1.2	148	9.4	9.5	A
16450.0			1.2	145	9.5	9.5	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16452.0			1.2	141	9.4	9.6	
16454.0			1.1	139	9.3	9.5	
16456.0	2.9	327	1.1	137	9.3	9.5	B
16458.0	3.5	338	1.1	136	9.4	9.4	B
16460.0	2.7	79	1.1	135	9.5	9.4	D
16462.0	8.8	61	1.0	136	9.6	9.3	D
16464.0	6.6	322	1.0	138	9.6	9.3	B
16466.0	4.4	325	1.0	141	9.7	9.4	B
16468.0	5.1	346	1.0	142	9.7	9.4	A
16470.0	5.1	332	1.0	143	9.7	9.5	A
16472.0	5.2	333	1.1	145	9.7	9.6	A
16474.0	5.5	333	1.1	145	9.7	9.7	A
16476.0	9.7	10	1.1	146	9.8	9.8	C
16478.0	9.6	38	1.1	147	9.8	9.8	C
16480.0	5.3	47	1.2	151	9.6	9.8	A
16482.0	18.3	1	1.1	154	9.5	9.7	C
16484.0	22.9	6	1.1	156	9.5	9.7	A
16486.0	22.6	357	1.1	156	9.5	9.6	A
16488.0	26.0	359	1.2	156	9.6	9.6	A
16490.0	24.7	354	1.2	157	9.6	9.6	A
16492.0	19.3	359	1.2	157	9.6	9.6	A
16494.0	29.9	353	1.2	156	9.7	9.6	A
16496.0	25.5	352	1.2	156	9.8	9.6	C
16498.0			1.2	158	9.8	9.6	
16500.0			1.2	158	9.7	9.6	
16502.0			1.2	158	9.6	9.5	
16504.0	2.5	260	1.2	158	9.5	9.4	C
16506.0	0.8	248	1.2	161	9.4	9.3	A
16508.0	1.0	26	1.2	163	9.4	9.3	A
16510.0	0.3	331	1.2	161	9.4	9.3	A
16512.0	1.6	338	1.1	158	9.4	9.4	A
16514.0	4.0	14	1.1	153	9.4	9.4	A
16516.0	5.8	356	1.1	150	9.4	9.5	A
16518.0	8.9	341	1.1	150	9.3	9.5	A
16520.0	10.3	329	1.1	150	9.3	9.4	C
16522.0	6.7	325	1.0	150	9.3	9.4	A
16524.0	2.5	298	1.0	149	9.3	9.3	A
16526.0	1.0	192	1.0	148	9.3	9.3	A
16528.0	1.2	272	1.0	150	9.3	9.3	A
16530.0	3.1	272	0.9	152	9.4	9.4	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16532.0	3.3	266	1.0	150	9.4	9.3	A
16534.0	2.3	261	1.0	147	9.6	9.3	A
16536.0	1.7	235	1.0	145	9.7	9.4	A
16538.0	1.6	244	1.0	144	10.0	9.6	A
16540.0	2.1	248	1.1	145	10.3	9.8	A
16542.0	3.5	257	1.1	145	10.7	10.1	A
16544.0	3.4	259	1.1	144	11.1	10.4	A
16546.0	2.2	288	1.1	144	11.6	10.7	A
16548.0	3.0	249	1.2	145	12.0	11.0	D
16550.0	1.8	297	1.2	144	12.6	11.4	B
16552.0	3.3	349	1.2	144	14.1	12.9	B
16554.0			1.2	144	16.9	16.7	
16556.0			1.1	146	18.1	18.8	
16558.0	5.7	28	1.1	151	18.1	18.8	D
16560.0			1.1	147	18.1	18.9	
16562.0			1.1	141	18.1	18.9	
16564.0			1.2	144	18.1	18.9	
16566.0	34.8	9	1.1	144	17.6	18.8	B
16568.0			1.1	146	17.3	18.7	
16570.0			1.1	152	17.8	18.8	
16572.0			1.2	152	18.1	18.8	
16574.0			1.2	149	18.1	18.8	
16576.0			1.2	149	18.1	18.8	
16578.0			1.2	149	18.1	18.8	
16580.0			1.2	148	18.1	18.7	
16582.0	36.8	8	1.3	148	18.1	18.7	D
16584.0			1.3	149	18.1	18.8	
16586.0			1.2	149	18.1	18.8	
16588.0			1.2	150	18.1	18.8	
16590.0			1.2	149	18.1	18.8	
16592.0			1.2	148	18.1	18.8	
16594.0			1.2	146	18.1	18.8	
16596.0			1.2	145	18.1	18.8	
16598.0			1.2	144	18.1	18.8	
16600.0			1.2	143	18.1	18.8	
16602.0			1.3	143	18.1	18.8	
16604.0			1.3	141	18.1	18.8	
16606.0			1.4	140	18.1	18.8	
16608.0			1.4	141	17.9	18.7	
16610.0			1.4	141	17.7	18.4	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16612.0			1.4	142	17.5	18.2	
16614.0			1.5	144	17.0	18.5	
16616.0			1.5	144	16.6	18.8	
16618.0			1.5	148	16.2	18.8	
16620.0			1.6	152	16.0	18.8	
16622.0			1.6	153	15.7	18.7	
16624.0			1.7	154	15.4	18.6	
16626.0			1.6	158	15.1	18.4	
16628.0			1.6	161	14.9	17.6	
16630.0			1.6	161	14.5	16.6	
16632.0			1.6	160	14.4	16.4	
16634.0			1.6	160	14.3	16.0	
16636.0			1.7	162	14.1	15.3	
16638.0			1.7	166	13.9	14.3	
16640.0			1.6	168	13.8	13.5	
16642.0			1.6	167	14.3	14.1	
16644.0			1.5	164	15.2	15.7	
16646.0			1.5	160	15.8	17.0	
16648.0			1.6	155	15.5	17.3	
16650.0			1.6	151	15.1	17.1	
16652.0			1.6	153	15.6	16.7	
16654.0			1.7	153	16.8	16.7	
16656.0			1.7	151	17.7	17.3	
16658.0			1.7	151	18.0	17.7	
16660.0			1.8	154	18.0	18.2	
16662.0			1.8	155	18.1	18.7	
16664.0			1.9	154	17.2	18.3	
16666.0			1.9	156	15.3	16.9	
16668.0	37.5	103	2.0	158	14.5	16.2	B
16670.0	38.4	100	2.1	158	14.4	16.1	D
16672.0	29.9	96	2.1	160	14.0	16.0	D
16674.0			2.1	161	13.9	15.5	
16676.0			2.0	163	14.0	15.3	
16678.0			1.9	165	14.4	15.4	
16680.0			1.9	164	14.8	15.2	
16682.0			1.9	165	14.9	14.8	
16684.0			1.9	166	14.6	14.7	
16686.0			2.0	167	14.4	14.4	
16688.0			2.1	168	14.4	14.0	
16690.0			2.1	168	14.3	14.2	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16692.0			2.1	169	14.4	14.4	
16694.0			2.1	169	14.2	14.1	
16696.0			2.1	170	14.0	13.7	
16698.0	83.8	40	2.1	171	13.9	13.4	D
16700.0	83.4	41	2.2	172	13.7	13.3	D
16702.0			2.3	174	13.8	13.4	
16704.0			2.3	175	14.2	13.4	
16706.0			2.3	176	14.3	13.3	
16708.0			2.3	177	14.4	13.4	
16710.0	68.7	302	2.3	177	14.6	13.7	D
16712.0			2.3	177	14.7	14.2	
16714.0			2.4	179	14.9	14.5	
16716.0			2.3	180	13.6	13.8	
16718.0			2.3	179	11.7	12.3	
16720.0			2.3	181	11.4	11.8	
16722.0			2.3	182	10.6	10.6	
16724.0			2.2	180	9.3	8.6	
16726.0			2.2	179	7.8	6.8	
16728.0			2.2	181	7.1	6.2	
16730.0			2.2	189	8.6	8.4	
16732.0			2.1	192	11.7	11.0	
16734.0			2.0	191	13.9	12.9	
16736.0			2.0	188	14.2	13.7	
16738.0			1.9	185	13.6	12.7	
16740.0			1.8	188	11.8	10.8	
16742.0			1.6	193	9.1	7.8	
16744.0			1.5	190	8.8	7.0	
16746.0			1.5	187	9.3	7.9	
16748.0			1.5	187	9.1	8.0	
16750.0			1.5	185	8.4	7.3	
16752.0			1.6	188	7.7	6.4	
16754.0			1.7	193	8.0	6.7	
16756.0			1.9	193	8.9	7.6	
16758.0			2.1	193	10.0	8.6	
16760.0			2.2	195	10.3	9.3	
16762.0			2.2	191	9.1	9.4	
16764.0			2.4	186	8.5	9.4	
16766.0			2.4	190	10.0	10.8	
16768.0			2.2	194	11.2	11.9	
16770.0			2.1	192	11.3	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 =A
16772.0	3.2	356	2.1	188	11.2	11.8	B
16774.0	3.0	354	2.1	186	11.0	11.7	B
16776.0	0.9	92	2.0	188	11.0	11.7	D
16778.0	0.4	75	2.1	189	10.9	11.6	D
16780.0	5.0	322	2.1	189	10.9	11.4	D
16782.0	5.1	17	2.2	189	10.7	11.1	B
16784.0	3.8	55	2.3	188	10.6	10.9	A
16786.0	3.0	26	2.4	189	10.6	10.7	A
16788.0	3.4	22	2.4	189	10.5	10.6	A
16790.0	3.7	16	2.4	190	10.6	10.6	A
16792.0	4.5	360	2.5	189	10.8	10.7	A
16794.0	5.3	8	2.5	189	10.7	10.7	A
16796.0	3.1	14	2.5	190	10.5	10.4	A
16798.0	10.1	8	2.5	193	10.5	10.2	C
16800.0			2.5	195	10.4	10.3	
16802.0	5.7	4	2.5	195	10.3	10.4	A
16804.0	8.5	8	2.5	196	10.3	10.4	A
16806.0	15.0	20	2.4	196	10.2	10.4	A
16808.0	2.6	356	2.4	194	10.1	10.5	A
16810.0	3.3	3	2.4	194	10.1	10.5	A
16812.0	3.6	6	2.3	194	10.2	10.6	A
16814.0	3.7	7	2.3	195	10.2	10.7	A
16816.0	3.9	2	2.3	195	10.4	10.7	A
16818.0	4.0	359	2.2	194	10.4	10.7	A
16820.0	4.1	358	2.2	192	10.5	10.8	A
16822.0	3.7	1	2.2	190	10.6	10.9	A
16824.0	3.5	359	2.2	187	10.5	10.8	A
16826.0	3.7	352	2.2	184	10.5	10.7	A
16828.0	4.4	61	2.1	184	10.4	10.6	A
16830.0	5.3	59	2.0	183	10.3	10.5	A
16832.0	5.4	45	2.0	184	10.3	10.3	A
16834.0	3.4	193	2.0	186	10.4	10.2	A
16836.0	5.4	178	2.0	186	10.4	10.2	A
16838.0	3.1	2	2.0	189	10.4	10.2	A
16840.0	2.4	23	1.9	190	10.4	10.2	A
16842.0	3.8	13	1.8	188	10.5	10.2	A
16844.0	4.3	345	1.9	185	10.5	10.0	A
16846.0	2.2	305	1.9	180	10.4	10.0	A
16848.0	1.9	357	2.0	180	10.5	10.2	A
16850.0	3.1	349	2.1	181	10.5	10.4	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16852.0	2.3	13	2.1	182	10.4	10.5	A
16854.0	1.0	40	2.0	185	10.4	10.5	A
16856.0	0.9	86	1.9	188	10.3	10.5	A
16858.0	1.0	89	1.9	188	10.3	10.6	A
16860.0	1.3	54	2.0	187	10.3	10.6	A
16862.0	0.9	62	2.1	188	10.1	10.4	A
16864.0	1.2	32	2.1	188	9.9	10.3	A
16866.0	1.2	38	2.1	187	9.8	10.3	A
16868.0	1.6	21	2.2	185	9.8	10.3	A
16870.0	2.2	21	2.2	186	9.9	10.2	A
16872.0	1.9	66	2.2	188	9.9	10.1	A
16874.0			2.2	189	9.8	9.9	
16876.0			2.3	189	9.7	9.8	
16878.0			2.3	189	9.7	9.4	
16880.0			2.3	190	9.8	9.2	
16882.0	19.0	44	2.3	190	10.1	9.5	D
16884.0			2.3	189	10.5	9.8	
16886.0			2.3	185	10.5	10.0	
16888.0	13.1	62	2.4	184	10.2	9.9	D
16890.0	13.6	53	2.3	184	10.3	9.9	B
16892.0	19.3	52	2.2	184	10.5	9.9	D
16894.0	10.3	20	2.2	183	10.3	9.7	C
16896.0	6.6	24	2.3	185	10.2	9.8	C
16898.0	7.5	19	2.3	188	10.3	9.8	C
16900.0	2.9	360	2.3	190	10.2	9.8	A
16902.0	2.9	30	2.3	191	9.9	9.8	A
16904.0	3.2	27	2.3	190	9.9	10.0	A
16906.0	3.1	319	2.2	189	10.0	10.2	A
16908.0	5.2	295	2.2	189	9.9	9.9	A
16910.0	4.2	336	2.1	190	9.7	9.7	A
16912.0	5.4	321	2.0	189	9.7	9.8	A
16914.0	2.4	3	2.0	188	9.6	9.9	A
16916.0	3.4	27	2.0	186	9.5	9.9	A
16918.0	2.0	27	1.9	183	9.5	9.8	A
16920.0	2.2	15	1.9	182	9.6	9.7	A
16922.0	4.2	357	1.8	181	9.6	9.6	A
16924.0	1.8	292	1.7	181	9.6	9.6	A
16926.0	1.1	244	1.6	182	9.6	9.6	A
16928.0	2.5	348	1.6	184	9.7	9.4	A
16930.0	2.4	343	1.6	185	9.9	9.5	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16932.0	3.1	356	1.6	185	10.0	9.7	A
16934.0	3.7	337	1.6	186	9.9	9.6	A
16936.0	3.4	318	1.6	188	9.8	9.6	A
16938.0	3.1	281	1.6	189	9.7	9.4	A
16940.0	4.0	284	1.6	183	9.6	9.4	A
16942.0	5.2	261	1.6	178	9.5	9.4	A
16944.0	2.6	312	1.6	179	9.5	9.4	A
16946.0	2.4	256	1.6	179	9.5	9.6	C
16948.0	4.4	264	1.7	181	9.5	9.7	A
16950.0	2.3	252	1.7	183	9.5	9.6	A
16952.0			1.7	185	9.5	9.7	
16954.0	9.6	4	1.6	188	9.5	9.7	C
16956.0	0.4	48	1.6	189	9.5	9.7	A
16958.0	0.4	318	1.6	188	9.5	9.7	A
16960.0	2.9	354	1.7	187	9.5	9.6	A
16962.0	2.7	342	1.8	188	9.6	9.9	A
16964.0	2.9	352	1.8	189	9.7	9.9	A
16966.0	3.4	3	1.8	192	9.5	9.7	A
16968.0	3.9	334	1.8	191	9.3	9.6	C
16970.0	7.8	31	1.9	187	9.3	9.7	A
16972.0	8.1	21	1.9	186	9.2	9.5	A
16974.0	5.4	39	2.0	188	9.2	9.3	A
16976.0	4.2	3	2.0	189	9.2	9.3	A
16978.0	3.8	20	2.0	188	9.3	9.2	A
16980.0	3.8	26	2.0	186	9.4	9.2	A
16982.0	3.2	339	2.0	188	9.4	9.2	A
16984.0	2.8	304	2.0	191	9.3	9.3	A
16986.0	3.7	349	1.9	188	9.3	9.3	A
16988.0	8.3	20	1.9	186	9.3	9.4	D
16990.0	4.2	339	1.9	184	9.4	9.6	B
16992.0	3.9	268	1.9	183	9.5	9.6	D
16994.0			1.8	181	9.5	9.6	
16996.0	3.5	103	1.7	179	9.4	9.6	D
16998.0	3.2	42	1.7	177	9.4	9.6	D
17000.0	4.0	26	1.6	173	9.4	9.4	D
17002.0			1.5	172	9.3	9.4	
17004.0	2.8	330	1.5	170	9.3	9.4	D
17006.0			1.4	172	9.3	9.4	
17008.0			1.4	176	9.2	9.2	
17010.0	1.4	355	1.4	178	9.1	9.1	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
17012.0	36.9	220	1.4	179	9.0	9.1	D
17014.0	3.0	2	1.4	182	9.1	9.2	D
17016.0	2.2	294	1.4	180	9.1	9.2	B
17018.0	32.8	222	1.4	176	9.1	9.2	D
17020.0	32.6	220	1.4	175	9.2	9.3	D
17022.0	4.0	310	1.5	175	9.4	9.3	B
17024.0	4.4	299	1.5	176	9.4	9.4	B
17026.0			1.5	177	9.4	9.5	
17028.0	1.1	109	1.6	178	9.3	9.5	B
17030.0	1.5	38	1.7	181	9.2	9.5	B
17032.0	3.6	352	1.7	183	9.2	10.5	D
17034.0			1.5	185	9.2	11.4	
17036.0			1.4	186	9.2	11.0	
17038.0			1.5	186	9.2	9.9	
17040.0	2.0	247	1.6	186	9.1	9.3	D
17042.0	9.2	24	1.7	186	9.1	9.2	D
17044.0	1.3	19	1.7	185	9.2	9.4	B
17046.0	2.0	3	1.7	184	9.2	9.5	B
17048.0	6.7	337	1.7	184	9.2	9.4	B
17050.0			1.8	185	9.1	9.3	
17052.0	2.4	96	1.9	185	9.0	9.1	D
17054.0	3.4	44	1.9	181	9.3	9.2	B
17056.0	2.1	29	1.9	179	10.4	9.3	D
17058.0			1.9	186	10.6	9.3	
17060.0			1.9	190	9.6	9.3	
17062.0	17.7	52	1.8	188	9.4	9.4	B
17064.0	20.2	53	1.8	186	9.3	9.3	D
17066.0			1.8	185	9.2	9.2	
17068.0	1.0	81	1.7	185	9.2	9.3	A
17070.0	1.6	77	1.7	183	9.2	9.3	A
17072.0			1.7	181	9.2	9.3	
17074.0	3.3	34	1.6	177	9.2	9.3	C
17076.0	3.7	9	1.6	175	9.3	9.4	C
17078.0			1.4	174	9.5	9.5	
17080.0	4.4	30	1.4	175	9.4	9.4	A
17082.0	3.5	14	1.3	176	9.2	9.3	A
17084.0			1.3	178	9.2	9.1	
17086.0			1.3	182	9.2	9.0	
17088.0	6.3	156	1.3	185	9.2	9.1	D
17090.0			1.3	182	9.2	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 =A
17092.0	9.5	233	1.3	177	9.2	9.1	D
17094.0	8.4	229	1.3	178	9.3	9.1	D
17096.0			1.4	181	9.3	9.2	
17098.0			1.4	183	9.2	9.2	
17100.0			1.4	186	9.2	9.2	
17102.0	11.2	237	1.5	188	9.2	9.3	D
17104.0	6.7	228	1.5	188	9.2	9.3	D
17106.0			1.6	188	9.2	9.5	
17108.0			1.6	187	9.3	9.5	
17110.0			1.6	185	9.2	9.3	
17112.0			1.7	185	9.2	9.2	
17114.0	5.8	2	1.7	186	9.2	9.2	B
17116.0	5.8	3	1.7	184	9.2	9.2	B
17118.0			1.7	185	9.1	8.9	
17120.0	7.5	277	1.7	188	9.1	8.8	D
17122.0			1.7	187	9.1	9.1	
17124.0			1.6	187	9.1	9.1	
17126.0	76.3	238	1.6	186	9.2	9.1	B
17128.0			1.6	181	9.2	9.2	
17130.0			1.5	178	9.1	9.2	
17132.0			1.4	177	9.1	9.2	
17134.0			1.4	176	9.2	9.3	
17136.0			1.4	173	9.2	9.2	
17138.0	14.1	319	1.4	174	9.0	9.1	D
17140.0	15.5	305	1.3	178	9.1	9.0	D
17142.0	16.2	291	1.3	184	9.1	9.0	D
17144.0			1.3	183	9.1	9.0	
17146.0	13.4	327	1.5	181	9.2	9.1	D
17148.0			1.6	182	9.2	9.1	
17150.0			1.6	184	9.2	9.1	
17152.0	35.6	134	1.5	188	9.2	9.2	D
17154.0	34.3	115	1.5	190	9.1	9.3	D
17156.0			1.5	189	9.0	9.2	
17158.0			1.5	188	9.0	9.2	
17160.0	43.3	141	1.6	186	9.2	9.2	D
17162.0	43.6	126	1.6	186	9.2	9.2	D
17164.0			1.6	188	9.1	9.2	
17166.0			1.7	192	9.1	9.1	
17168.0			1.7	193	9.1	9.0	
17170.0			1.6	189	9.1	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 =A
17172.0	8.7	35	1.6	188	9.0	9.1	D
17174.0	8.5	176	1.6	186	9.0	9.1	D
17176.0	8.1	151	1.6	185	9.0	9.1	D
17178.0	2.1	44	1.5	182	9.0	9.0	D
17180.0	2.2	119	1.4	179	9.0	9.0	B
17182.0	3.7	80	1.4	177	9.0	9.0	D
17184.0			1.3	175	9.0	9.1	
17186.0			1.3	175	9.1	9.1	
17188.0			1.3	178	9.1	9.0	
17190.0			1.3	181	9.1	9.0	
17192.0			1.3	182	9.1	9.0	
17194.0			1.3	180	9.1	9.1	
17196.0			1.2	179	9.1	9.1	
17198.0			1.3	179	9.0	9.1	
17200.0			1.3	179	9.0	9.0	
17202.0			1.4	181	9.0	9.0	
17204.0			1.5	185	9.0	9.1	
17206.0			1.6	189	9.2	9.3	
17208.0	2.6	335	1.7	189	9.4	9.5	D
17210.0	3.5	332	1.6	189	9.4	9.5	B
17212.0	9.3	319	1.6	192	9.3	9.4	D
17214.0	6.9	279	1.7	194	9.3	9.3	D
17216.0			1.7	195	9.9	9.2	
17218.0			1.7	196	9.9	9.1	
17220.0			1.8	196	9.2	9.0	
17222.0	7.4	41	1.8	197	9.1	9.0	D
17224.0			1.8	195	9.1	9.0	
17226.0			1.7	192	9.1	9.0	
17228.0			1.7	190	9.1	9.1	
17230.0			1.7	188	9.0	9.1	
17232.0			1.7	186	9.0	9.1	
17234.0			1.6	180	9.0	9.2	
17236.0			1.4	176	9.0	9.2	
17238.0			1.3	173	9.0	8.9	
17240.0			1.3	174	9.0	8.9	
17242.0			1.2	178	9.0	9.0	
17244.0			1.2	179	9.0	8.9	
17246.0			1.3	180	9.0	8.9	
17248.0			1.3	183	9.0	8.9	
17250.0			1.3	179	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 =A
17252.0			1.3	174	9.3	9.4	
17254.0	5.6	102	1.4	175	9.5	9.6	D
17256.0	8.2	94	1.4	177	9.1	9.2	D
17258.0			1.3	179	8.9	9.0	
17260.0	8.4	74	1.3	182	8.9	9.0	B
17262.0	7.7	132	1.4	186	8.9	9.0	D
17264.0	7.5	105	1.5	188	8.9	8.9	D
17266.0			1.6	189	8.9	8.9	
17268.0			1.7	189	8.9	8.9	
17270.0			1.7	189	8.9	9.0	
17272.0			1.7	187	8.9	9.0	
17274.0			1.8	186	9.0	9.0	
17276.0			1.8	187	9.0	9.1	
17278.0			1.8	185	9.2	9.0	
17280.0			1.8	184	9.8	9.0	
17282.0			1.8	185	10.6	9.0	
17284.0			1.7	186	10.5	9.0	
17286.0			1.6	188	10.2	9.0	
17288.0			1.6	187	10.4	9.2	
17290.0			1.6	186	9.7	9.2	
17292.0			1.6	186	8.9	8.9	
17294.0			1.7	186	8.9	8.9	
17296.0			1.7	189	8.9	8.9	
17298.0			1.7	193	8.9	8.9	
17300.0			1.8	193	8.9	8.9	
17302.0	5.9	31	1.7	192	8.9	8.9	D
17304.0	7.5	35	1.7	188	8.9	8.9	D
17306.0			1.6	183	9.0	9.0	
17308.0			1.6	182	9.0	9.8	
17310.0			1.5	180	8.9	11.1	
17312.0			1.5	176	8.9	10.2	
17314.0			1.5	174	8.9	8.9	
17316.0			1.5	175	8.9	8.9	
17318.0			1.5	174	8.8	8.7	
17320.0			1.4	173	8.8	8.6	
17322.0	16.9	16	1.3	172	8.9	8.7	B
17324.0			1.3	174	8.9	8.9	
17326.0			1.3	178	9.0	8.8	
17328.0			1.2	179	9.1	8.9	
17332.0			1.2	184	8.5	11.8	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
17334.0			1.1	185	8.5	12.1	
17336.0			1.1	186	8.6	12.5	
17338.0			1.1	185	8.7	12.8	
17340.0			1.2	185	8.8	13.0	
17342.0			1.4	184	8.8	13.1	
17344.0			1.6	183	8.8	12.7	
17346.0	40.1	125	1.7	182	8.8	11.5	D
17348.0	30.2	308	1.7	185	9.1	12.9	D
17350.0			1.5	189	9.2	13.5	
17352.0			1.4	190	9.0	10.7	
17354.0			1.5	189	8.9	9.2	
17356.0			1.6	189	9.0	9.0	
17358.0			1.7	185	8.9	9.0	
17360.0			1.7	182	9.0	9.0	
17362.0			1.8	182	9.1	9.0	
17364.0			1.8	182	9.1	9.0	
17366.0			1.9	183	9.0	9.0	
17368.0			1.9	183	8.9	8.9	
17370.0			1.9	179	8.9	8.9	
17372.0			1.9	177	9.0	9.0	
17374.0			1.9	177	8.9	9.0	
17376.0			1.8	179	8.7	8.9	
17378.0			1.8	181	8.6	9.0	
17380.0			1.8	180	8.7	9.1	
17382.0			1.7	176	8.8	9.1	
17384.0			1.6	172	8.9	9.1	
17386.0			1.5	168	8.9	9.1	
17388.0			1.5	165	8.8	9.0	
17390.0			1.5	165	8.9	8.9	
17392.0			1.5	167	8.9	8.9	
17394.0			1.5	165	9.0	8.9	
17396.0	20.5	320	1.6	167	9.1	9.0	D
17398.0	20.1	312	1.6	170	9.2	8.9	D
17400.0	26.9	301	1.6	170	9.4	8.9	D
17402.0			1.5	169	10.1	9.0	
17404.0			1.5	169	10.7	8.9	
17406.0			1.5	169	10.5	9.0	
17408.0			1.5	168	10.1	9.0	
17410.0			1.5	168	10.1	9.1	
17412.0			1.5	167	10.2	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 =A
17414.0			1.5	168	9.8	9.1	
17416.0			1.6	171	9.4	9.1	
17418.0			1.6	170	9.2	9.1	
17420.0			1.6	169	9.1	9.0	
17422.0			1.6	170	9.4	8.9	
17424.0			1.7	171	9.5	9.1	
17426.0			1.7	174	9.9	9.2	
17428.0			1.7	176	9.8	9.2	
17430.0			1.6	177	9.0	9.2	
17432.0			1.6	177	8.8	9.0	
17434.0			1.6	176	8.8	8.8	
17436.0			1.5	176	8.8	8.9	
17438.0			1.5	178	8.8	9.0	
17440.0			1.5	178	8.8	9.1	
17442.0			1.7	179	8.9	9.0	
17444.0			1.7	180	8.9	9.0	
17446.0			1.7	181	9.0	8.9	
17448.0			1.6	180	8.9	9.3	
17450.0	15.3	250	1.6	179	8.6	9.6	B
17452.0	20.8	235	1.6	174	8.5	9.2	D
17454.0			1.5	170	8.1	8.4	
17456.0	22.6	246	1.5	168	7.5	7.8	D
17458.0			1.5	164	7.6	7.7	
17460.0	74.6	245	1.6	162	7.9	7.8	D
17462.0			1.7	162	8.0	7.9	
17464.0			1.7	163	8.1	7.9	
17466.0			1.7	166	8.4	8.2	
17468.0			1.7	169	9.6	8.6	
17470.0			1.7	171	11.0	8.7	
17472.0			1.8	170	11.6	8.6	
17474.0			2.0	167	12.1	8.5	
17476.0			2.0	167	12.9	8.5	
17478.0			2.0	165	12.4	8.5	
17480.0			1.9	165	10.8	8.6	
17482.0			2.0	163	9.7	8.7	
17484.0			2.0	160	9.3	8.8	
17486.0			2.0	162	9.1	8.9	
17488.0			2.0	166	8.9	9.0	
17490.0			2.0	168	8.9	9.0	
17492.0			2.0	168	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 =A
17494.0			2.0	165	9.0	9.0	
17496.0			2.0	164	9.0	9.0	
17498.0			1.9	163	8.8	8.8	
17500.0			1.9	163	8.4	8.5	
17502.0			1.8	163	8.1	8.3	
17504.0			1.8	161	7.9	8.1	
17506.0			1.7	158	8.2	8.3	
17508.0			1.7	155	8.8	8.7	
17510.0			1.7	156	9.1	8.8	
17512.0			1.7	159	9.0	8.7	
17514.0			1.6	160	9.1	8.5	
17516.0			1.6	158	9.8	8.6	
17518.0			1.7	157	9.7	8.7	
17520.0	81.3	358	1.7	156	9.1	8.9	D
17522.0			1.7	157	8.9	8.9	
17524.0			1.7	160	9.3	8.9	
17526.0	83.9	354	1.8	160	10.6	8.8	D
17528.0			1.8	161	11.1	8.7	
17530.0			1.7	162	11.1	8.5	
17532.0			1.7	161	10.7	8.5	
17534.0			1.6	159	10.2	8.7	
17536.0			1.6	159	11.9	8.7	
17538.0			1.7	163	13.5	8.6	
17540.0			1.7	164	13.7	8.6	
17542.0			1.7	163	13.4	8.5	
17544.0			1.7	162	13.2	8.3	
17546.0			1.8	164	12.5	8.6	
17548.0			1.8	168	11.4	8.7	
17550.0			1.7	172	10.1	8.6	
17552.0			1.6	177	9.1	8.7	
17554.0			1.6	179	8.7	8.7	
17556.0			1.5	174	8.7	8.4	
17558.0			1.5	173	8.5	8.3	
17560.0			1.6	176	8.3	8.4	
17562.0			1.7	176	8.4	8.7	
17564.0			1.8	178	8.8	9.0	
17566.0			1.7	181	8.8	9.1	
17568.0			1.7	180	8.8	9.2	
17570.0			1.6	179	8.7	9.3	
17572.0			1.6	180	8.6	9.4	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	DIAM 1-3	DIAM 2-4	QUAL. INDEX BEST =A
17574.0			1.7	180	8.8	9.3	
17576.0			1.8	180	8.9	9.2	
17578.0			1.9	179	9.0	9.1	
17580.0			1.9	177	9.0	9.1	
17582.0			2.0	176	8.2	8.8	
17584.0			1.9	175	8.1	8.7	
17586.0			1.9	175	9.0	8.9	
17588.0			1.9	176	9.2	9.0	
17590.0			1.9	177	9.3	9.0	
17592.0			1.9	174	9.2	9.0	
17594.0			1.9	171	9.2	9.0	
17596.0			1.9	173	9.1	8.9	
17598.0			1.9	175	9.1	8.8	
17600.0			1.9	176	9.0	8.9	
17602.0			1.9	175	9.0	8.8	
17604.0			1.9	174	8.9	9.0	
17606.0			1.9	174	8.9	9.2	
17608.0			1.9	173	8.8	9.2	
17610.0			1.9	173	8.7	9.3	
17612.0			1.8	171	8.7	9.2	
17614.0			1.7	169	8.3	8.8	
17616.0			1.6	170	7.1	8.3	
17618.0			1.5	172	6.8	8.0	
17620.0			1.5	171	7.7	7.8	
17622.0	53.1	5	1.5	169	7.9	7.7	B
17624.0	52.5	360	1.4	170	8.0	7.9	B
17626.0			1.4	173	8.3	7.9	
17628.0			1.3	175	8.8	8.0	
17630.0			1.3	177	9.0	8.1	
17632.0			1.2	178	8.8	8.2	
17634.0			1.2	178	8.2	8.1	
17636.0			1.3	177	8.0	8.0	
17638.0			1.4	176	8.2	8.0	
17640.0			1.4	176	8.3	8.3	
17642.0	11.3	263	1.4	178	7.9	8.2	D
17644.0	9.5	248	1.4	179	7.7	8.1	D
17646.0			1.4	178	7.9	8.2	
17648.0			1.5	179	8.0	8.3	
17650.0			1.4	181	8.2	8.4	
17652.0			1.4	183	8.5	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 =A
17654.0			1.4	184	8.4	8.7	
17656.0			1.5	183	8.0	8.4	
17658.0			1.5	183	8.2	8.5	
17660.0			1.5	184	8.6	8.6	
17662.0			1.5	184	8.4	8.3	
17664.0			1.5	185	8.1	8.0	
17666.0	78.9	257	1.6	185	8.1	8.0	D
17668.0			1.7	181	8.3	8.1	
17670.0			1.7	179	8.4	8.0	
17672.0			1.7	180	8.1	7.7	
17674.0			1.7	180	8.2	7.8	
17676.0			1.8	181	8.4	8.1	
17678.0			1.8	181	8.6	8.6	
17680.0			1.7	182	8.8	8.8	
17682.0			1.7	181	8.8	8.7	
17684.0			1.6	179	8.8	8.7	
17686.0			1.6	176	8.8	8.9	
17688.0			1.6	174	8.8	8.9	
17690.0			1.6	171	8.9	8.9	
17692.0			1.6	171	8.9	8.9	
17694.0			1.5	170	9.0	8.8	
17696.0			1.5	170	9.0	8.8	
17698.0			1.5	170	8.9	8.9	
17700.0			1.5	167	8.8	8.9	
17702.0			1.4	168	8.7	8.6	
17704.0			1.4	174	8.1	8.0	
17706.0			1.3	178	7.5	7.7	
17708.0	4.5	16	1.3	181	7.5	7.9	B
17710.0	4.1	352	1.3	183	7.7	7.9	D
17712.0	3.4	352	1.3	181	7.8	7.9	D
17714.0			1.3	178	7.9	7.9	
17716.0	8.3	167	1.4	178	7.8	7.8	B
17718.0	8.0	200	1.4	180	7.7	7.7	B
17720.0	10.5	217	1.4	184	7.7	7.8	B
17722.0			1.5	185	7.7	7.9	
17724.0			1.5	183	7.7	7.9	
17726.0			1.5	183	7.8	7.9	
17728.0			1.5	183	7.9	7.7	
17730.0			1.7	184	7.9	7.6	
17732.0			1.7	185	7.8	8.0	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
17734.0			1.8	184	7.9	8.4	
17736.0			1.8	182	8.1	8.5	
17738.0			1.8	182	8.4	8.7	
17740.0			1.8	183	8.6	8.8	
17742.0			1.8	181	8.6	8.8	
17744.0	7.8	332	1.9	179	7.9	8.3	B
17746.0	6.4	326	1.9	180	7.3	7.6	B
17748.0			1.9	181	7.5	7.6	
17750.0			2.0	182	7.7	7.7	
17752.0			2.0	180	7.8	7.7	
17754.0			2.0	181	7.9	7.8	
17756.0			2.0	183	8.0	8.0	
17758.0			2.0	182	8.3	8.2	
17760.0			2.0	182	8.3	8.2	
17762.0			1.9	184	8.0	7.9	
17764.0			1.9	184	7.7	7.9	
17766.0			1.9	185	7.8	8.0	
17768.0			1.9	187	8.1	8.2	
17770.0			1.9	185	8.0	8.3	
17772.0			1.9	184	8.0	8.1	
17774.0			1.9	185	7.9	8.0	
17776.0			1.8	185	7.7	8.1	
17778.0			1.8	184	7.7	8.1	
17780.0			1.8	183	7.6	8.0	
17782.0			1.8	182	7.5	8.0	
17784.0			1.8	181	7.7	7.9	
17786.0			1.7	182	7.8	7.7	
17788.0			1.7	184	7.6	7.5	
17790.0			1.7	184	7.5	7.4	
17792.0			1.7	183	7.4	7.4	
17794.0			1.7	184	7.4	7.3	
17796.0			1.7	186	7.4	7.3	
17798.0			1.7	185	7.3	7.2	
17800.0			1.7	186	7.2	7.3	
17802.0			1.6	189	7.2	7.3	
17804.0			1.6	190	7.4	7.2	
17806.0			1.6	189	7.4	7.2	
17808.0			1.6	189	7.4	7.2	
17810.0	4.2	354	1.6	190	7.4	7.3	D
17812.0	5.1	17	1.6	189	7.5	7.4	B

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
17814.0	5.6	7	1.6	186	7.8	7.6	D
17816.0			1.7	182	8.1	7.8	
17818.0			1.7	183	8.6	8.1	
17820.0			1.7	184	8.9	8.6	
17822.0			1.7	187	9.0	9.0	
17824.0			1.7	189	8.8	8.9	
17826.0	10.6	318	1.7	190	8.4	8.4	D
17828.0			1.7	189	8.1	8.1	
17830.0			1.7	189	8.1	8.1	
17832.0	82.0	249	1.7	189	8.3	8.4	D
17834.0			1.8	189	8.5	8.7	
17836.0			1.8	188	8.6	8.9	
17838.0	83.7	250	1.8	188	8.7	9.0	D
17840.0			1.9	188	8.7	9.2	
17842.0			1.9	188	8.6	9.9	
17844.0	80.5	247	2.0	187	8.6	10.9	D
17846.0			2.0	188	8.5	11.5	
17848.0			1.9	189	8.4	11.7	
17850.0			1.9	190	8.4	11.4	
17852.0			1.9	193	8.4	10.8	
17854.0			1.9	196	8.4	10.1	
17856.0			1.9	194	8.4	9.5	
17858.0			2.0	190	8.6	9.5	
17860.0			2.1	189	8.8	9.6	
17862.0			2.2	189	9.0	9.2	
17864.0			2.2	191	9.0	9.0	
17866.0			2.2	191	9.1	9.1	
17868.0			2.2	191	9.0	9.3	
17870.0			2.2	192	8.7	10.0	
17872.0			2.3	192	8.8	10.2	
17874.0			2.4	189	8.8	9.9	
17876.0			2.4	189	8.8	9.6	
17878.0			2.4	191	9.0	9.3	
17880.0			2.4	191	9.0	9.1	
17882.0			2.5	189	9.1	9.1	
17884.0			2.5	188	9.0	9.0	
17886.0			2.5	190	8.9	8.8	
17888.0			2.5	191	8.9	8.6	
17890.0			2.5	189	9.2	8.8	
17892.0			2.6	189	9.5	8.8	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
17894.0			2.6	185	9.5	8.8	
17896.0			2.6	182	9.2	8.9	
17898.0			2.6	182	9.1	9.2	
17900.0			2.6	183	8.9	9.2	
17902.0			2.6	184	8.7	8.9	
17904.0			2.6	183	8.7	8.8	
17906.0			2.6	179	8.9	9.1	
17908.0			2.6	177	8.8	10.2	
17910.0			2.6	179	8.8	10.6	
17912.0	21.3	204	2.6	182	8.9	10.1	D
17914.0	14.0	191	2.6	183	8.7	10.7	D
17916.0			2.7	182	8.7	10.5	
17918.0			2.7	180	8.9	9.7	
17920.0			2.7	178	9.0	9.5	
17922.0			2.7	177	9.0	9.7	
17924.0			2.8	179	8.9	9.7	
17926.0			2.8	178	8.8	9.7	
17928.0			2.8	178	8.7	10.2	
17930.0			2.8	176	8.7	10.3	
17932.0			2.8	177	8.8	10.3	
17934.0			2.8	179	8.8	10.7	
17936.0			2.8	178	8.7	10.4	
17938.0			2.7	176	8.7	9.9	
17940.0			2.7	177	8.7	10.3	
17942.0			2.6	178	8.6	11.6	
17944.0			2.6	177	8.5	12.3	
17946.0			2.6	179	8.6	11.5	
17948.0			2.6	180	8.7	11.3	
17950.0			2.5	178	8.7	11.1	
17952.0			2.5	176	8.8	10.6	
17954.0			2.4	173	8.7	9.7	
17956.0			2.2	168	8.3	8.8	
17958.0			2.1	159	6.5	6.6	
17960.0			2.1	159	5.1	4.9	
17962.0			2.1	170	5.0	4.7	
17964.0			2.2	172	5.0	4.7	
17966.0			2.2	166	5.0	4.7	
17968.0			2.2	166	8.4	6.5	
17970.0			2.2	168	12.3	8.5	
17972.0			2.2	168	12.4	8.5	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
17974.0			2.2	168	12.5	8.6	
17976.0			2.2	168	12.6	8.6	
17978.0			2.3	168	12.6	8.6	
17980.0			2.3	168	12.6	8.6	
17982.0			2.3	168	12.6	8.6	
17984.0			2.3	168	11.5	8.7	
17986.0			2.2	166	9.4	8.8	
17988.0			2.3	165	8.7	8.8	
17990.0			2.3	166	8.7	8.7	
17992.0			2.3	166	10.2	8.7	
17994.0			2.2	163	13.1	8.0	
17996.0			2.2	168	14.1	7.8	
17998.0			2.2	166	14.6	8.4	
18000.0			2.1	162	14.6	8.6	
18002.0			2.1	165	14.0	8.7	
18004.0			2.2	164	14.4	8.7	
18006.0			2.2	166	13.8	8.7	
18008.0			2.2	167	11.5	8.8	
18010.0			2.3	167	9.6	8.9	
18012.0			2.4	168	9.1	8.9	
18014.0			2.4	173	9.1	8.8	
18016.0			2.4	177	9.0	8.8	
18018.0			2.4	178	9.0	8.8	
18020.0			2.4	178	9.0	8.8	
18022.0			2.4	175	9.0	8.8	
18024.0			2.4	172	9.0	8.8	
18026.0			2.4	170	9.0	8.8	
18028.0			2.4	167	9.0	8.8	
18030.0			2.4	165	9.0	8.8	
18032.0			2.4	161	8.8	8.9	
18034.0			2.4	157	8.7	8.9	
18036.0			2.4	156	8.8	8.9	
18038.0			2.3	154	9.0	8.9	
18040.0			2.3	153	9.1	8.9	
18042.0			2.3	152	9.1	8.9	
18044.0	83.9	309	2.3	151	9.3	8.9	D
18046.0			2.4	151	10.5	8.9	
18048.0			2.4	151	12.9	9.2	
18050.0			2.4	150	16.4	10.6	
18052.0			2.3	149	18.0	10.9	

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
18054.0	37.8	113	2.3	150	18.1	9.9	D
18056.0			2.4	153	17.6	9.1	
18058.0			2.4	155	17.3	9.0	
18060.0			2.4	151	16.7	9.2	
18062.0			2.4	150	15.9	8.9	
18064.0	37.4	104	2.5	154	16.2	8.6	D
18066.0	33.9	115	2.4	158	16.2	8.5	D
18068.0			2.3	159	15.1	8.5	
18070.0			2.3	160	12.1	8.5	
18072.0			2.3	160	9.6	8.6	
18074.0			2.3	160	9.0	8.7	
18076.0			2.3	159	9.2	8.7	
18078.0			2.2	157	9.1	8.9	
18080.0			2.2	156	9.4	9.1	
18082.0			2.1	155	10.0	9.2	
18084.0			2.1	154	9.9	9.1	
18086.0			2.1	155	9.3	9.1	
18088.0			2.1	157	9.2	9.1	
18090.0			2.1	157	9.2	9.0	
18092.0			2.1	156	9.1	8.9	
18094.0			2.1	156	9.1	8.9	
18096.0			2.1	152	9.1	8.9	
18098.0			2.1	147	8.8	8.8	
18100.0			2.2	150	8.6	9.6	
18102.0			2.2	153	8.6	11.2	
18104.0			2.2	154	8.5	11.9	
18106.0			2.2	153	8.4	12.3	
18108.0			2.3	155	8.3	12.0	
18110.0			2.3	156	8.4	10.6	
18112.0			2.3	156	8.5	9.6	
18114.0			2.4	159	8.7	9.4	
18116.0			2.4	162	8.8	9.3	
18118.0			2.4	163	8.8	9.3	
18120.0			2.4	163	8.8	9.6	
18122.0			2.5	164	8.7	10.6	
18124.0			2.4	166	8.5	11.0	
18126.0			2.4	168	8.6	10.8	
18128.0			2.5	167	8.6	10.3	
18130.0			2.5	166	8.7	9.4	
18132.0			2.6	164	8.7	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 =A
18134.0			2.7	161	8.6	8.8	
18136.0			2.8	162	8.4	8.6	
18138.0			3.0	162	8.3	8.3	
18140.0			3.2	162	8.2	7.8	
18142.0			3.4	172	7.8	7.7	
18144.0			3.6	179	7.8	8.1	
18146.0			3.7	178	8.2	8.6	
18148.0			3.8	178	8.2	8.7	
18150.0	83.3	4	3.9	176	7.9	8.6	D
18152.0			3.9	179	7.8	8.2	
18154.0	73.8	50	4.0	182	7.8	8.1	D
18156.0			4.1	181	7.8	8.2	
18158.0			4.1	181	7.9	8.2	
18160.0			4.2	183	7.9	7.9	
18162.0			4.2	184	7.8	7.5	
18164.0			4.2	186	7.8	7.5	
18166.0			4.3	188	8.0	7.8	
18168.0			4.3	193	8.0	7.7	
18170.0			4.4	198	7.7	7.5	
18172.0			4.5	198	7.7	7.6	
18174.0			4.5	196	7.7	7.8	
18176.0			4.6	198	7.7	7.9	
18178.0			4.8	200	7.6	7.9	
18180.0			5.0	202	7.4	7.9	
18182.0			5.2	205	7.4	8.0	
18184.0			5.4	206	7.4	8.2	
18186.0			5.6	207	7.4	7.9	
18188.0			5.7	208	7.4	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 =A
16782.0			2.3	189	10.7	11.1	
16784.0	5.5	16	2.4	187	10.5	11.0	B
16786.0	3.4	24	2.4	186	10.4	11.0	A
16788.0	3.5	20	2.3	189	10.4	10.8	A
16790.0	4.5	357	2.3	189	10.6	10.7	A
16792.0	4.4	1	2.3	188	10.7	10.8	A
16794.0	4.2	1	2.4	188	10.7	10.8	A
16796.0	2.5	357	2.4	191	10.7	10.5	A
16798.0	4.4	339	2.4	194	10.6	10.4	A
16800.0	6.0	6	2.3	196	10.4	10.5	A
16802.0	7.3	8	2.3	196	10.4	10.7	A
16804.0	6.8	348	2.2	193	10.4	10.8	A
16806.0	5.2	312	2.2	189	10.0	10.6	A
16808.0	2.8	348	2.1	188	10.0	10.4	A
16810.0	3.3	355	2.0	187	10.4	10.3	A
16812.0	3.3	354	2.0	186	10.7	10.3	A
16814.0	3.3	354	1.9	187	10.8	10.4	A
16816.0	3.3	348	2.0	185	10.8	10.4	A
16818.0	3.2	335	2.0	180	10.7	10.4	A
16820.0	3.0	332	2.1	180	10.4	10.6	A
16822.0	2.9	348	2.2	184	10.4	10.9	A
16824.0	2.7	346	2.2	185	10.5	10.8	A
16826.0	3.5	350	2.4	186	10.3	10.4	A
16828.0	5.1	64	2.4	188	10.4	10.4	A
16830.0	6.3	54	2.4	190	10.4	9.9	A
16832.0	5.8	56	2.4	190	10.4	9.7	A
16834.0	1.1	296	2.5	192	10.4	10.2	A
16836.0	3.3	2	2.5	193	10.4	10.3	A
16838.0	3.3	3	2.4	194	10.3	10.4	A
16840.0	3.2	22	2.3	191	10.4	10.5	A
16842.0	4.4	3	2.3	185	10.5	10.6	A
16844.0	4.2	306	2.2	183	10.6	10.6	A
16846.0	2.5	348	2.2	184	10.7	10.7	A
16848.0	2.6	41	2.1	184	10.6	10.7	A
16850.0	1.3	360	2.2	185	10.6	10.4	A
16852.0	2.2	35	2.2	185	10.7	10.4	A
16854.0	1.0	35	2.3	184	10.7	10.5	A
16856.0	0.8	69	2.3	185	10.4	10.6	A
16858.0	1.6	24	2.2	187	10.3	10.7	A
16860.0	1.5	45	2.3	188	10.4	10.6	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16862.0	2.0	39	2.3	189	10.2	10.5	A
16864.0	2.0	26	2.4	187	10.1	10.4	A
16866.0	1.9	26	2.5	187	10.1	10.3	A
16868.0	2.5	24	2.6	189	10.1	10.3	A
16870.0			2.6	188	10.3	10.2	
16872.0	11.4	201	2.6	185	10.3	10.0	D
16874.0	16.3	167	2.6	183	10.1	9.9	D
16876.0			2.5	184	10.0	9.9	
16878.0			2.4	187	9.9	9.9	
16880.0	17.2	184	2.4	190	9.8	10.0	B
16882.0	15.2	195	2.4	191	9.8	10.6	D
16884.0			2.4	190	9.9	11.1	
16886.0	26.3	22	2.3	185	9.9	10.9	D
16888.0	20.3	38	2.2	181	10.1	10.5	B
16890.0	9.8	22	2.2	181	10.2	10.4	D
16892.0	12.5	357	2.1	181	10.3	10.1	D
16894.0	2.4	332	2.1	183	10.3	10.0	D
16896.0	5.9	21	2.2	185	10.4	9.9	D
16898.0			2.2	186	11.0	9.8	
16900.0	2.1	28	2.2	186	10.7	9.8	B
16902.0	2.2	22	2.2	186	10.1	9.9	B
16904.0	2.4	11	2.2	186	10.3	10.3	B
16906.0	5.1	301	2.2	187	10.3	10.3	A
16908.0	4.1	288	2.2	188	10.0	10.1	A
16910.0	3.7	319	2.2	190	9.9	10.1	A
16912.0	3.0	330	2.3	188	9.8	10.2	A
16914.0	2.8	7	2.3	187	9.8	10.0	A
16916.0	3.3	33	2.3	187	9.8	9.8	A
16918.0	3.1	37	2.3	186	9.9	9.9	A
16920.0	3.5	30	2.3	185	9.9	9.9	A
16922.0	4.5	360	2.3	183	9.8	9.8	A
16924.0	2.2	244	2.3	185	9.7	9.8	A
16926.0	0.2	183	2.2	185	9.7	9.9	A
16928.0	3.3	351	2.1	182	9.6	9.9	A
16930.0	2.5	348	1.9	178	9.8	10.0	A
16932.0	3.1	3	1.9	178	10.0	10.0	A
16934.0	3.8	341	1.8	181	9.9	9.8	A
16936.0	3.4	326	1.8	184	9.8	9.7	A
16938.0	3.7	292	1.8	184	9.8	9.6	A
16940.0	3.9	279	1.9	182	9.8	9.6	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
16942.0	3.8	255	1.9	182	9.7	9.7	A
16944.0	1.6	295	2.0	184	9.6	9.7	A
16946.0			2.1	186	9.7	9.7	
16948.0	6.5	300	2.2	187	9.8	9.8	A
16950.0	6.1	265	2.2	186	9.8	9.7	A
16952.0			2.3	185	9.8	9.8	
16954.0	4.7	53	2.4	184	9.8	9.8	A
16956.0	2.0	39	2.4	183	9.8	9.7	A
16958.0	2.5	33	2.4	179	9.9	9.6	A
16960.0	4.1	351	2.4	179	9.7	9.6	A
16962.0	3.6	346	2.4	181	9.8	9.9	A
16964.0	3.8	350	2.3	182	9.9	10.1	A
16966.0	4.0	345	2.1	181	9.8	9.9	A
16968.0	4.1	327	2.0	179	9.6	9.8	A
16970.0	7.5	24	1.9	181	9.5	9.7	A
16972.0	7.9	13	1.9	184	9.4	9.6	A
16974.0	32.9	297	1.9	185	9.6	9.4	B
16976.0	4.0	353	2.0	184	9.7	9.4	A
16978.0	2.9	8	2.0	183	9.6	9.6	A
16980.0	3.2	9	2.0	183	9.5	9.5	A
16982.0	3.8	7	2.0	184	9.5	9.1	A
16984.0	4.2	1	2.1	186	9.3	9.0	A
16986.0	3.3	356	2.2	185	9.2	9.2	C
16988.0	4.0	310	2.2	183	9.4	9.4	A
16990.0	3.9	336	2.1	182	9.7	9.7	B
16992.0	3.4	349	2.1	180	9.8	9.7	B
16994.0			2.1	180	9.9	9.7	
16996.0			2.0	181	9.9	9.8	
16998.0			2.0	181	9.8	9.8	
17000.0	1.6	12	2.0	178	9.7	9.7	B
17002.0	0.9	27	1.9	175	9.6	9.6	B
17004.0			1.8	172	9.6	9.7	
17006.0			1.8	173	9.5	9.7	
17008.0			1.8	176	9.4	9.6	
17010.0			1.8	178	9.3	9.3	
17012.0	2.9	341	1.8	178	9.4	9.2	D
17014.0			1.8	180	9.4	9.3	
17016.0	1.6	338	1.9	183	9.4	9.3	D
17018.0	2.0	151	2.0	184	9.4	9.4	D
17020.0	2.6	41	2.0	183	9.4	9.5	D

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
17022.0			2.1	182	9.4	9.5	
17024.0	1.9	314	2.1	178	9.5	9.5	D
17026.0			2.1	177	9.9	9.5	
17028.0	1.8	11	2.1	178	10.0	9.6	D
17030.0	0.7	9	2.1	178	9.4	9.5	B
17032.0	1.9	77	2.1	179	9.3	10.3	D
17034.0	24.3	247	2.0	180	9.3	11.4	D
17036.0	3.5	295	2.0	179	9.2	11.3	D
17038.0	34.5	240	1.9	176	9.2	10.3	B
17040.0	3.8	303	1.9	174	9.2	9.5	C
17042.0			1.8	178	9.3	9.4	
17044.0	4.2	5	1.8	180	9.5	9.4	A
17046.0	5.4	346	1.7	180	9.6	9.5	A
17048.0	3.0	10	1.7	181	9.5	9.5	A
17050.0			1.7	180	9.4	9.3	
17052.0			1.7	182	9.2	9.3	
17054.0	3.2	96	1.8	185	9.2	9.3	A
17056.0	2.8	74	1.9	189	9.4	9.9	A
17058.0			1.8	190	9.5	10.7	
17060.0	6.2	303	1.8	185	9.5	10.2	D
17062.0	4.2	308	1.9	185	9.4	9.8	B
17064.0	5.6	49	1.9	186	9.3	9.7	B
17066.0			1.9	184	9.1	9.5	
17068.0	2.8	187	1.9	184	9.3	9.5	D
17070.0	2.7	188	1.9	186	9.5	9.4	B
17072.0			2.0	185	9.5	9.4	
17074.0	3.0	42	2.0	180	9.5	9.4	D
17076.0	4.1	34	2.0	179	9.6	9.4	D
17078.0			2.0	176	9.7	9.6	

Schlumberger

MOBIL OIL CORPORATION ELBA FLATS UNIT 1-30 SUMMARY

DEPTH	DIP	DIP AZM	DEV	DEV AZM	DIAM 1-3	DIAM 2-4	QUAL
TOP							
13012.0	81.0	308.	5.5	88.	13.0	9.8	*
BOTTOM							
18188.0	58.9	35.	5.7	208.	7.4	7.4	*
TOP							
16782.0	31.3	359.	2.3	189.	10.7	11.1	*
BOTTOM							
17078.0	34.8	115.	2.0	176.	9.7	9.6	*

Schlumberger