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 [X] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
UNION TEXAS PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR
14001 E. Iliff Ave., Suite 500, Aurora, Colorado 80014

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
2140' FSL & 605' FEL (NE/4, SE/4)
At proposed prod. zone
Same

5. LEASE DESIGNATION AND SERIAL NO.
ML 29405 (State)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Wildcat Butte Unit

8. FARM OR LEASE NAME

9. WELL NO.
1-2

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 2, T26S-R13E

12. COUNTY OR PARISH
Emery

13. STATE
Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 49 miles southwest of Green River, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
605'

16. NO. OF ACRES IN LEASE
2591.00 Ac in Lease
12,888.84 Ac in Unit

17. NO. OF ACRES ASSIGNED TO THIS WELL
80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
2850'

20. ROTARY OR CABLE TOOLS
Rotary - Surface to TD

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5239' GR

22. APPROX. DATE WORK WILL START*
3/20/1983

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	400'	200 sx
7-7/8"	5-1/2"	15.5#	TD	200 sx

1. Spud 12-1/4" hole w/air mist, foam or mud up as necessary. Drill to 400' ±.
2. Set 8-5/8" 24#, K-55 new casing at 400' & cement w/approx 200 sx. WOC 12 hrs.
3. Install 10", 3000# BOP stack & choke manifold.
4. Drill 7-7/8" hole to TD at 2850' and log.
5. Set 5-1/2", 15.5#, K-55 new casing at TD, if found productive.
6. Cement casing w/approximately 200 sx. WOC 12 hrs.
7. Perforate and treat as needed.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 3-22-83
BY: [signature]

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

24.
SIGNED [signature] TITLE Area Operations Manager DATE 2/8/1983

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

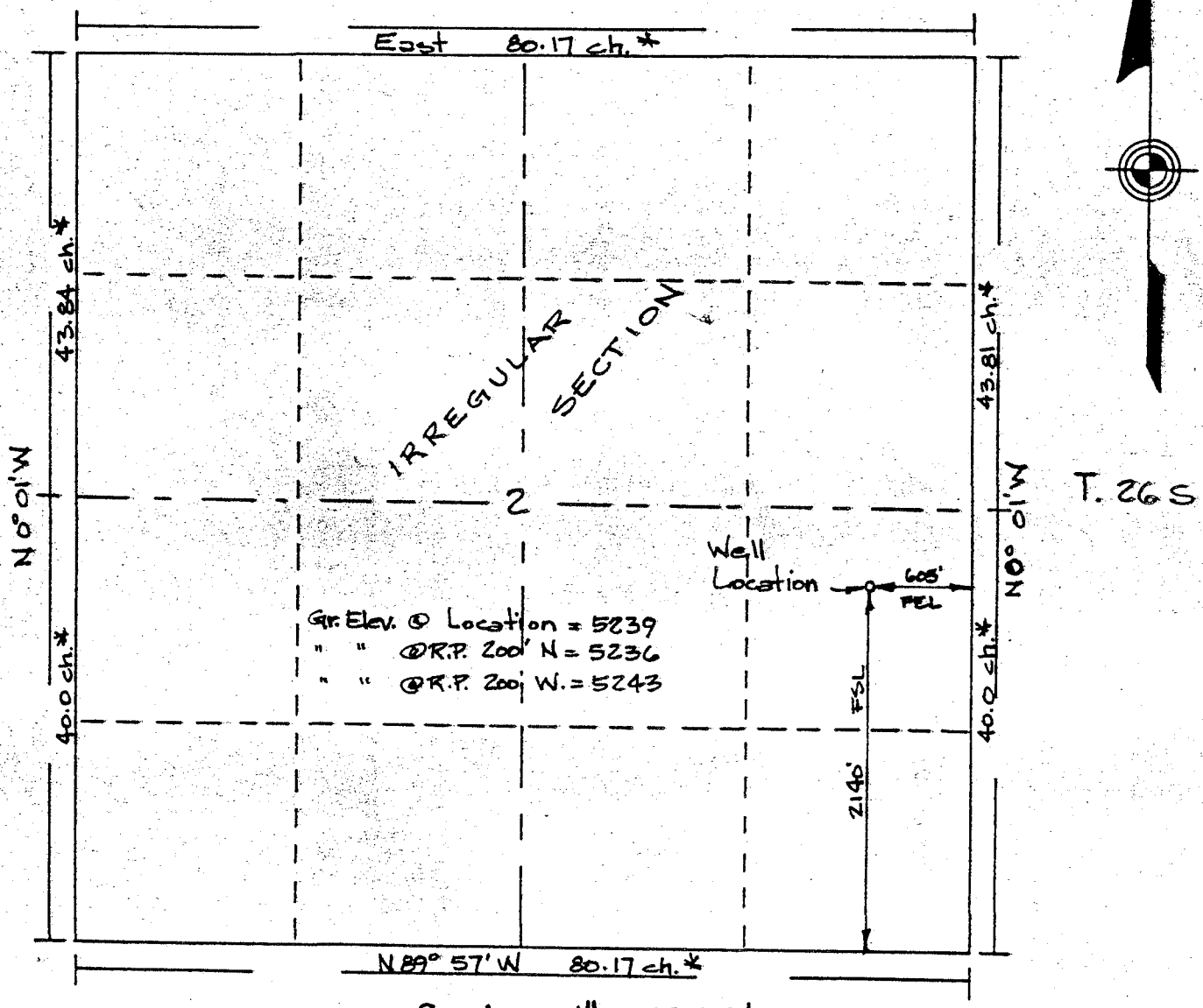
*See Instructions On Reverse Side

FORM F-106

* GLO plat information

EXHIBIT "A"

R. 13 E



Scale··· 1" = 1000'

Powers Elevation of Denver, Colorado
has in accordance with a request from TOM BELSHA
for UNION TEXAS PETROLEUM CORPORATION
determined the location of WILDCAT BUTTE UNIT 1-2
to be 2140' FSL & 605' FEL Section 2 Township 26 South
Range 13 East of the SALT LAKE Meridian
EMERY County, UTAH

I hereby certify that this plat is an accurate representation of a correct survey showing the location of

Date: Dec. 19, 1982

T. Nelson

Licensed Land Surveyor No. 2711
State of UTAH

Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

BLM Report ID No. [ ]

Report Acceptable Yes ___ No ___

Mitigation Acceptable Yes ___ No ___
Comments: ___

1. Report Title NEW ACCESS WILDCAT BUTTE UNITS 1-2 & 2-19

2. Development Company Union Texas Petroleum Corp.

3. Report Date 2 1983 (Month, Year)

4. Antiquities Permit No. 82-UT-218

5. Responsible Institution Powers Elevation County Emery

6. Fieldwork Location: TWN 26S Range 13E Section(s) 1
TWN 25S Range 14E Section(s) 18 19

7. Resource Area SR TWN ___ Range ___ Section(s) ___

PO=PONY EXPRESS, BR=BEAR RIVER, PR=PRICE RIVER, WS=WARM SPRINGS
BC=BOOK CLIFFS, HR=HOUSE RANGE, SE=SEVIER RIVER,
HM=HENRY MOUNTAINS, BE=BEAVER RIVER, DX=DIXIE
KA=KANAB, ES=ESCALANTE, SJ=SAN JUAN, GR=GRAND
SR=SAN RAFAEL, DM=DIAMOND MOUNTAIN,

FH in spaces 65,69,81,85,97,101 Only if:
V=Vernal Meridian
H=Half Township

8. Description of Examination Procedures: On February 3, 1983, Fred P. Frampton surveyed two proposed road realignments during a government on-site project inspection. The 1,000-foot realignment to Wildcat Butte Unit 1-2 was surveyed in two, linear 15-meter wide swaths along an existing road. The proposed alignment was surveyed in one zig-zag, 20-meter wide transect along a flagged route 0.8 miles long.

9. Linear Miles Surveyed and/or 1

Definable Acres Surveyed and/or

*Legally Undefinable Acres Surveyed

(*A parcel hard to cadastrally locate i.e., center of section)

10. Inventory Type I
R=Reconnaissance
I=Intensive
S=Statistical Sample

11. Description of Findings (attach appendices, if appropriate)

No cultural resources were found.

12. Number Sites Found: 0
No sites=0

13. Collection: N Y=Yes, N=No

14. Actual/Potential National Register Properties Affected: There are no sites on or eligible for nomination to the National Register in the project area.

15. Literature Search, Location/Date: December 13, 1982 San Rafael Resource Area, Price

16. Conclusion/Recommendations: Since no sites were found there should be no effect to cultural resources as a result of the realignments to the access routes of the Union Texas Petroleum Corporation Wildcat Butte Units 1-2 and 2-19. Therefore, we recommend that the projects proceed as planned.

TEN-POINT NTL-6 COMPLIANCE PROGRAM

Union Texas Petroleum Corporation
Wildcat Butte Unit #1-2
NE SE Section 2, T26S-R13E
Emery County, Utah

1. Geologic Name of the Surface Formation

The surface formation is the Quaternary, comprised mostly of sand dunes.

2. Estimated Tops of Important Geologic Markers

Entrada	50'
Navajo	360'
Kayentz	860'
Wingate	1060'
Chinle	1310'
Moenkopi	1660'
Coconino	2239'
Estimated TD	2850'

3. Estimated Depths of Water, Oil, Gas, or Minerals

Navajo	360'	possible water
Coconino	2239'	oil

4. Proposed Casing Program

Hole Size	Interval	Section Length	Size (OD)	Weight, Grade Joint	Condition
12-1/4"	0-400'	400'	8-5/8"	24# K-55 ST&C	New
7-7/8"	0-2850'	2850'	5-1/2"	15.5# K-55 ST&C	New

Proposed Cementing Program

8-5/8" Surface Casing - 50 sx 50/50 Pozmix followed by 150 sx Thixotropic Cement
5-1/2" Production Casing - 200 sx Thixotropic Cement

5. Operator's Minimum Specifications for Pressure Control

Exhibit "B" is a schematic diagram of the proposed BOP equipment. The BOP's will be hydraulically tested to 1/2 of the rated working pressure after nippling up and after any use under pressure. The pipe rams will be operationally checked each 24 hour period, as will blind rams and annular preventer each time pipe is pulled. Such checks of the BOP's will be noted on daily drilling reports.

Accessories to the BOP's will include upper Kelly cock, floor safety valve, and a 3000# choke manifold shown as Exhibit "C".

6. The Type and Characteristics of the Proposed Circulating System

This well will be air drilled, if possible. A mist pump and/or foaming materials will be on site if minor water flows are encountered. Should excessive water be encountered, the hole will be mudded up with a water based system as follows:

Depth	Hole Size	Type Mud	MW	VIS	FL
0-400'	12-1/4"	Water Base w/gel-lime sweep	8.5-9.0	28-33	NC
400-TD	7-7/8"	Water Base, nondispersed	8.5-9.2	28-37	10 cc

Lost circulation materials will be available, if needed.

7. The Auxiliary Equipment to be Used

a) An upper Kelly cock will be kept in the string.

b) A float will not be used at the bit.

c) A mud logging unit will monitor the hole from 400' to TD.

d) A stabbing valve will be on the floor to be stabbed into the drillpipe when Kelly is not in the string.

8. Testing, Logging, and Coring Programs

a) One DST is anticipated in the Coconino Formation.

b) The open hole logging program will be as follows:

Air-Drilled Hole

400' - TD	Dual Induction, Sidewall Neutron, Formation Density, Caliper w/Gamma Ray back to the surface.

Fluid-Drilled Hole

400'-TD	Dual Laterolog, Sherically Focused Log, Compensated Neutron, Formation Density, Caliper w/Gamma Ray back to the surface.

c) No coring is anticipated.

d) Samples will be collected every 50' from surface to 1500' and every 10' thereafter. A mud logging unit will be on the well from 400' to TD.

9. Any Anticipated Abnormal Pressure or Temperatures

No abnormal pressures or temperatures have been reported in wells drilled to this depth in the area and are not anticipated in this well.

Hydrogen Sulfide has not been reported in this area and is not anticipated in this well. Regardless, precautions will be taken to monitor the presence of H_2S.

10. Anticipated Starting Date and Duration of Operations

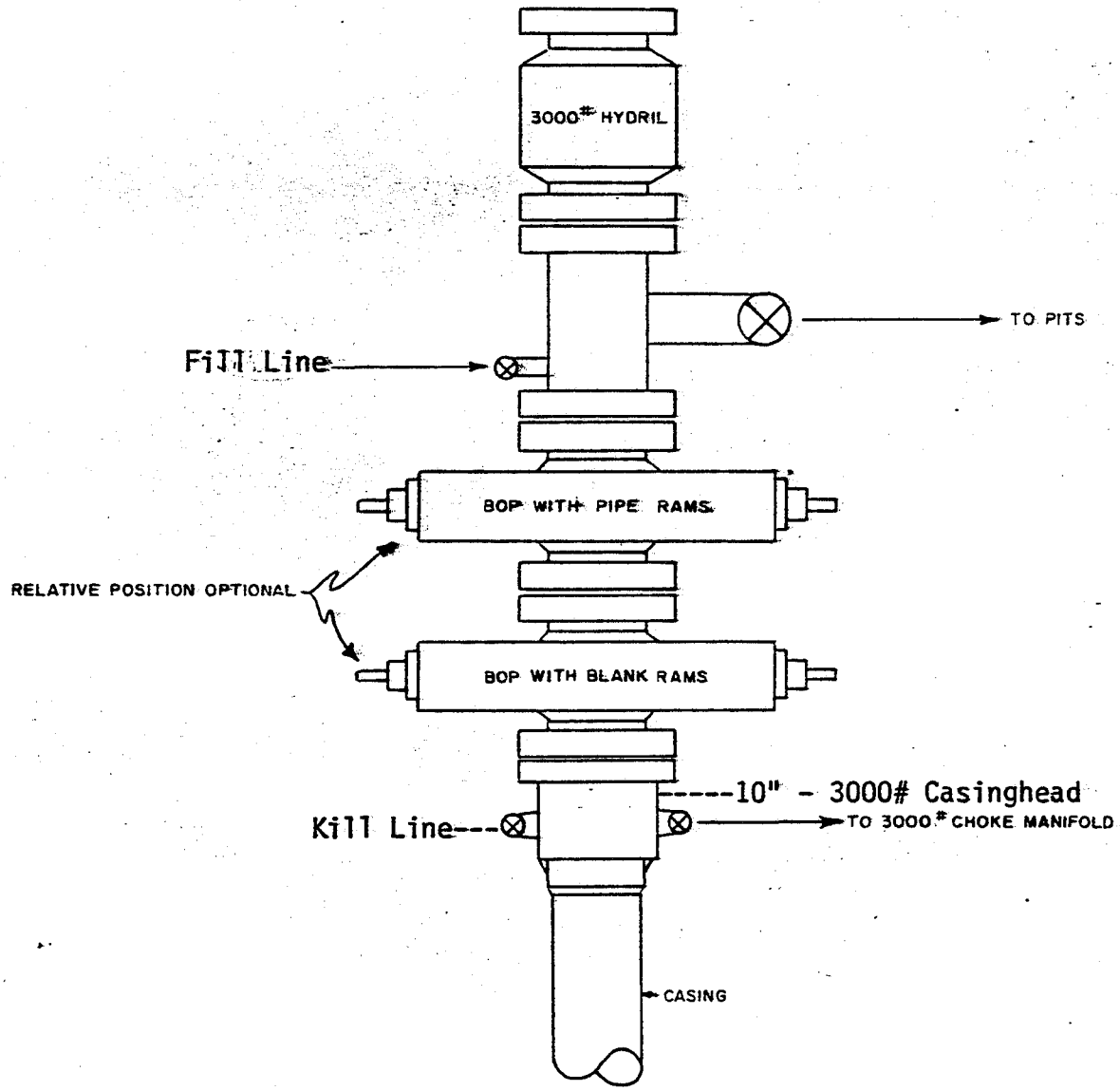
Union Texas has recently formed two Federal Units in this area, the Little Flat Top Unit, and the Wildcat Butte Unit. UTPC has committed to the drilling of two wells per unit, a total of four wells.

Most leases in the Wildcat Butte Unit expire on March 31, 1983. One of the two proposed Wildcat Butte Unit wells must be drilling over the March 31 expiration date. Starting by March 15 will enable both of the proposed Little Flat Top Unit wells to be drilled and to be drilling on either the first or second Wildcat Butte Unit wells.

Portions of two leases that also expire on March 31, 1983 are dedicated to the Little Flat Top Unit. In order to allow for the drilling of both proposed wells in the Little Flat Top Unit, drilling should commence by about March 15. Estimated drilling time is about 4-10 days per well.

WILDCAT BUTTE UNIT #1-2

EXHIBIT "B"

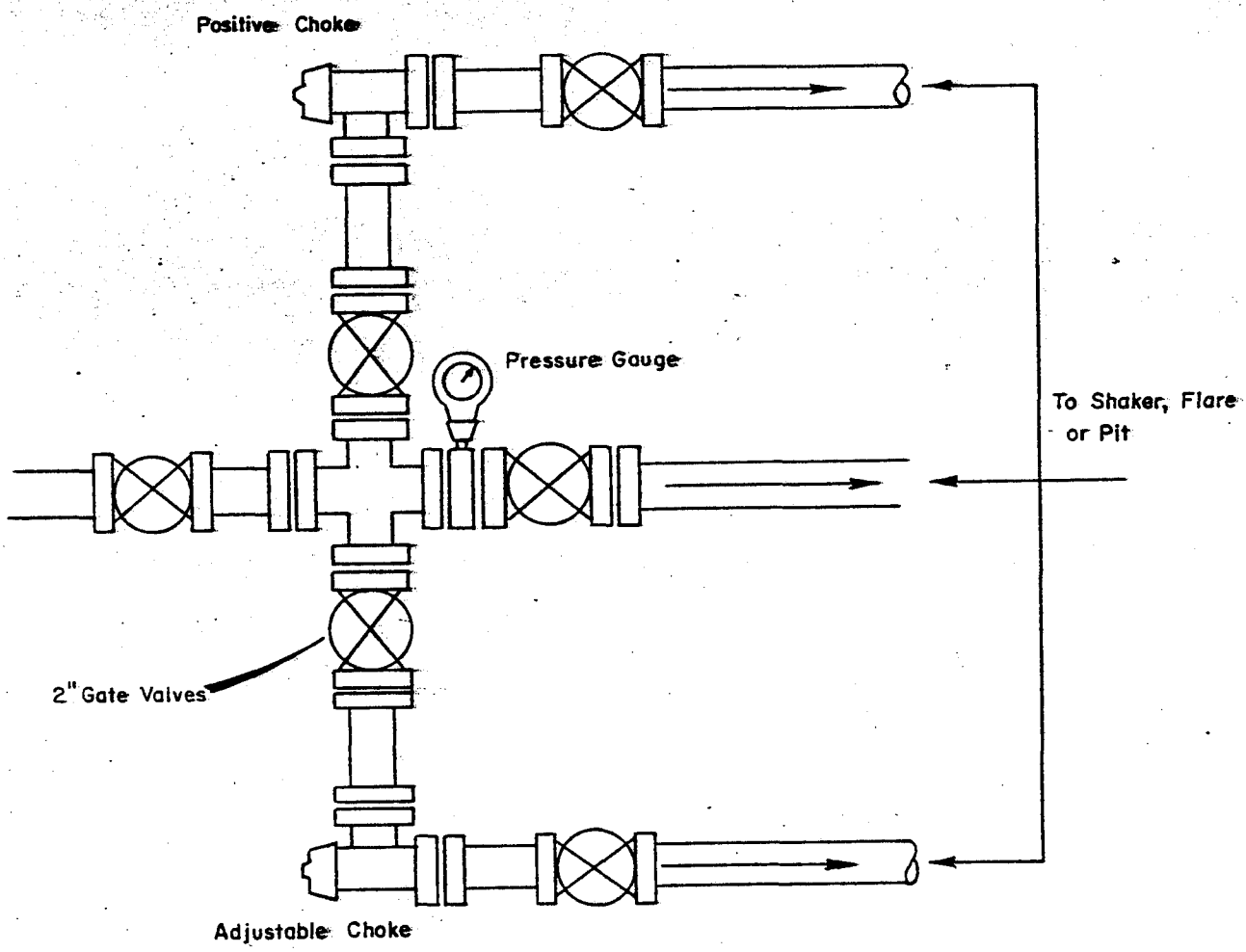


UNION TEXAS PETROLEUM

BLOWOUT PREVENTOR HOOK UP
3000 PSI

WILDCAT BUTTE UNIT #1-2

EXHIBIT "C"



UNION TEXAS PETROLEUM
CHOKE MANIFOLD

API CLASS	WORKING PRESSURE	SERVICE CONDITION
3M	3000 PSI	Low Pressure

MULTIPOINT REQUIREMENTS TO ACCOMPANY APD

Union Texas Petroleum Corporation
Wildcat Butte Unit #1-2
NE SE, Section 2, T26S-R13E
Emery County, Utah

1. Existing Roads

A. The proposed wellsite and elevation plat is shown as Exhibit "A".

B. The distance from Green River, Utah is approximately 49 miles. Proceed southwesterly from Green River on Utah State Highway 24 for 33.5 miles to point equivalent to Mile 136.3. As shown on vicinity map, Exhibit "D", turn left and proceed southeastly on maintained dirt road for 6.7 miles to Jeffery Well. Turn left & proceed east for 4.1 miles to Intersection "A". Turn left & proceed northeast onto maintained road for 2.6 miles to access road. Turn left and proceed west on access road for 1.6 miles to the well location.

C. Existing roads to be used for access to location are color coded blue on Exhibit "D". Existing trails that need to be upgraded are colored orange. Planned access roads are shown in red.

D. The only other existing roads within a three-mile radius of the proposed well are maintained dirt roads or jeep trails as shown in Exhibit "D".

E. There are no plans for improvement and/or maintenance of existing roads shown in blue. No existing trails need to be upgraded to this location. The Emery County Road Department will be contacted before heavy equipment is used on county roads.

2. Planned Access Roads

1. The maximum width of the 1.6 mile access road will be approximately 16'.

2. The maximum grade will be less than 10%.

3. Turnouts will be flagged by the BLM, as necessary.

4. No drainage design is needed for the road unless production is established.

5. No culverts are anticipated to be needed.

6. Surfacing materials will be native soil.

7. No cattleguards are anticipated to be needed at this time.

8. The road and location will conform to Bureau of Land Management guidelines as set out in "Surface Operating Standards for Oil and Gas Exploration and Development", published by the U.S. Department of the Interior, Second Edition, August 1978.

3. Location of Existing Wells

1. There are no known water wells within a two-mile radius of the proposed exploratory well.

2. There is one known abandoned well, the Odessa Natural Shannon #1, NW NW, Sec 7, T27S-R14E, as shown on Exhibit "E".

3. There are no known temporarily abandoned wells.

4. Thre are no known disposal wells.

5. There are no known wells presently being drilled.

6. There are no known producing wells.

7. There are no known shut in wells.

8. There are no known injection wells.

9. There are no known monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

A. No facilities are owned or controlled by lessee/operator within a 1-mile radius of the proposed locations.

B. In the event of production, the proposed surface facilities are shown as Exhibit "F". A proposed operation and maintenance plan will be submitted prior to any construction.

C. Plan for rehabilitation of disturbed area no longer needed for operations after construction is completed.

1. Land outside the protective fence will be regraded to as close as practical to the original contour.

2. Pit will be leveled & spread as soon as practical.

3. Other stipulations as furnished by the BLM will be adhered to.

5. Location and Type of Water Supply

A. Fresh water will be trucked in from nearby streams. The closest is the San Raphael River, 15 miles to the north.

B. Water will be transported by truck to location via the aforementioned roads.

C. No water well will be drilled on this lease or in this unit.

6. Source of Construction Materials

A. No construction materials will be needed to build the road or location.

B. No construction materials will be taken off Federal or State land.

C. Surface soil materials should be sufficient for construction of access road and location.

7. Methods of Handling Waste Disposal

1. Drilled cuttings will be buried in the reserve pit.

2. Drilling fluids, if needed, will be handled in the reserve pit. Upon completion of the well, water from the reserve pit will be trucked to other drilling locations, or disposed of properly. The residue will be buried and the pit leveled.

3. Any fluids produced during drilling or testing will be collected in a test tank or in the reserve pit. Any spills of oil, salt, water, or other fluids will be cleaned up and removed.

4. Chemical toilet facilities will be provided for human waste.

5. Trash, garbage, & other waste materials will be hauled from the locations and disposed of in local sanitary landfills.

6. After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. Any open pits will be fenced on three sides during drilling operations and on the fourth side after drilling until the pit has dried and can be leveled.

8. Auxiliary Facilities

No airstrip, camp, or other facilities will be built during the drilling of this well.

9. Wellsite Layout

1. Exhibit "G" is a drill pad layout as sketched, with elevations, by Powers Elevation of Richfield, Utah. Exhibit "H" has been drafted to show the cuts & fills needed to build the drilling pad. Twelve inches of top soil will be removed from the well pad & stockpiled on three sides separate from other dirt removed.

2. Exhibit "I" is a typical plan diagram of the drilling rig reserve pit, pipe racks, mud tanks, and other rig equipment. No permanent living facilities are planned. There will be a trailer on site. Minor variations in the rig layout and location dimensions will depend on the rig chosen.

3. Rig orientation, parking area, & access roads are also indicated on Exhibit "I".

4. The reserve pit will be constructed with at least 2/3 of the pit below natural ground level, and dirt removed will be stockpiled on the three sides not facing the rig. The pit will be lined only if sufficient clay material is not encountered when digging the pit.

10. Plans for Restoration of Surface

1. Immediately upon completion of drilling operations, the location and surrounding area will be cleared of all debris and waste material resulting from the operation. All trash will be hauled to a local sanitary landfill. At least 48 hours prior to commencing rehabilitation dirt work, the

operator will contact the State and the San Raphael Resource Area BLM office in Price, Utah, telephone number (801) 637-4584. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area and will be scarified with the contour to a depth of 4 inches.

2. The stockpiled topsoil will be evenly distributed over the disturbed area. Revegetation will be accomplished by planting mixed grasses as specified by the BLM, 1 lb/acre Indian rice grass and 1 lb/acre Mormon Tea.

3. Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped. The fencing will be maintained until leveling and cleanup are accomplished.

4. If any oil or other adverse substances is on the pit and is not immediately removable, the pit will be flagged overhead or covered with wire mesh.

5. Restoration operations will commence as soon as practical after operations cease. The BLM in Price will be notified prior to any dirt work. Revegetation is recommended in the fall, unless requested otherwise.

11. Other Information

1. The topography of the area is gently rolling. The soil is mostly sand, in small stabilized dunes. Cattle are grazed in the area. Vegetation is primarily Indian rice grass and Mormon tea.

2. The surface is managed by the Bureau of Land Management and is used for grazing of cattle.

3. The nearest water is the San Raphael River approximately 15 miles to the north. No occupied dwellings are in the immediate area. As evidenced by the attached Cultural Resource Management Report, Exhibit "J", no archaelogical, historical, or cultural sites have been found in the immediate area.

12. Lessee's or Operator's Representative

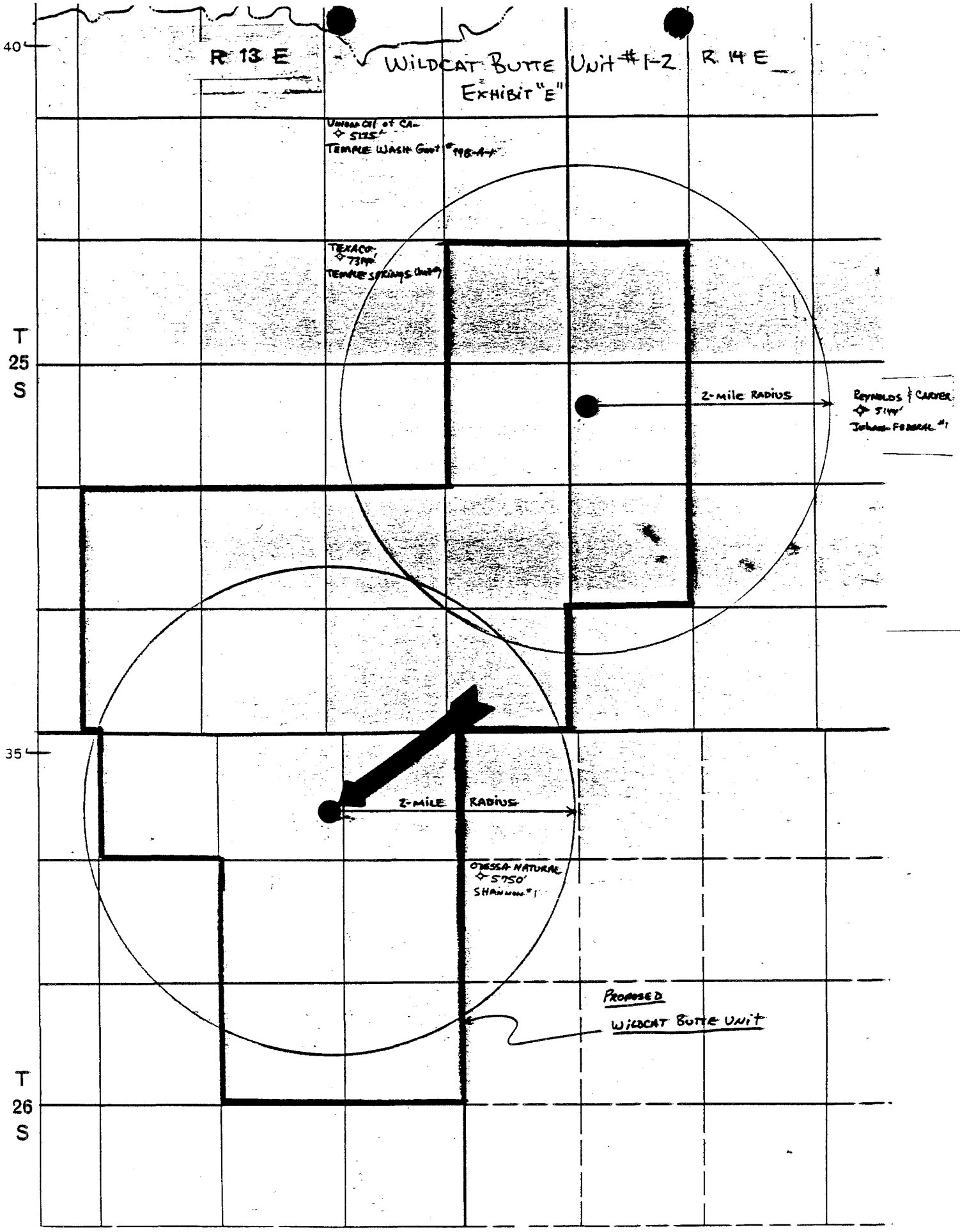
Thomas C. Belsha
Area Operations Manager
Union Texas Petroleum Corporation
14001 E. Iliff Avenue, Suite 500
Aurora, Colorado 80014

(303) 695-8778 (office)
(303) 979-1978 (home)

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Union Texas Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Thomas C. Belsha Area Operations Manager

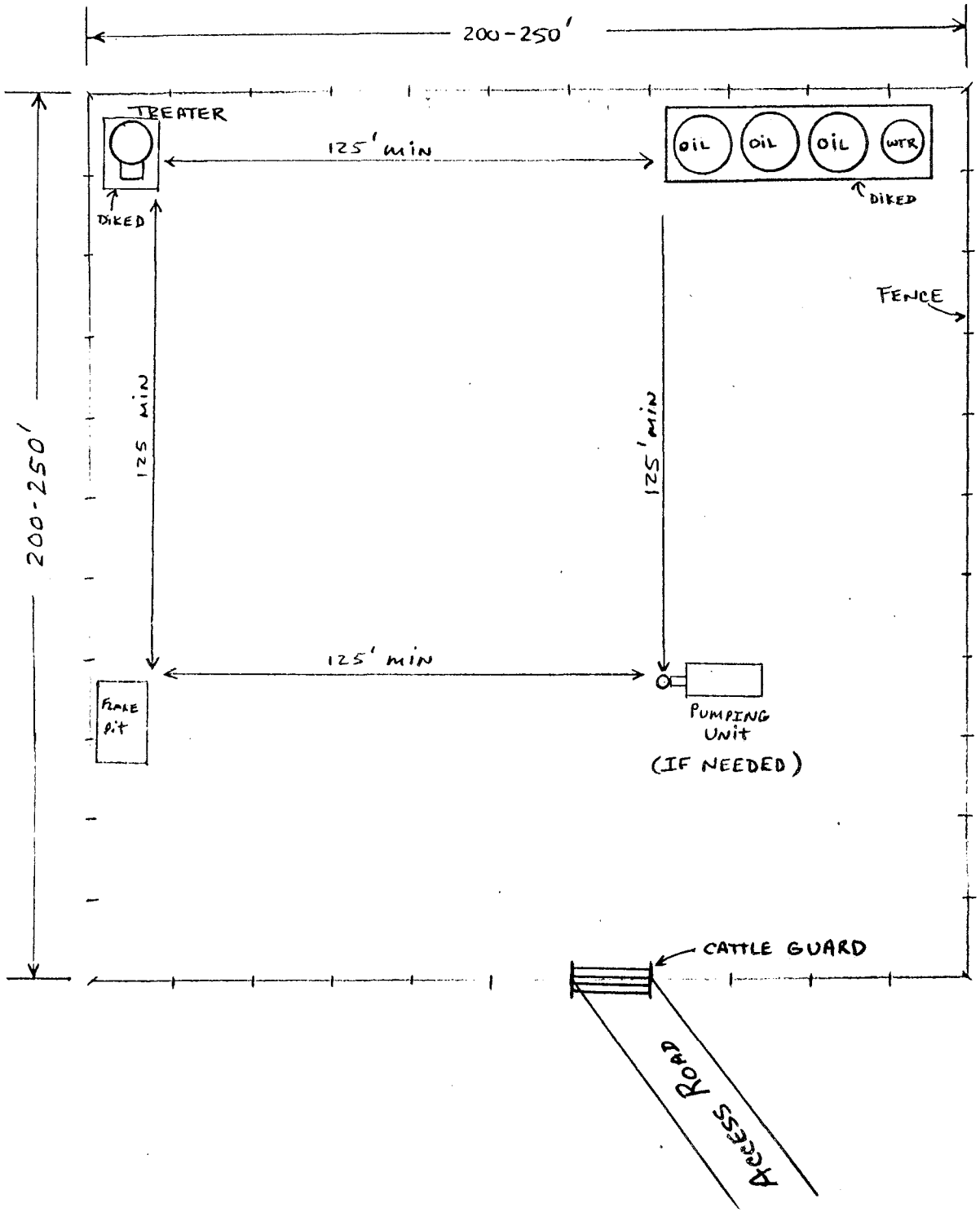

R 13 E
WILDCAT BUTTE UNIT #1-2
R 14 E
EXHIBIT "E"
40
Union Oil of Ca.
5125'
TEMPLE WASH Govt #118-A-4
TEXACO
7394'
TEMPLE SPRINGS Unit #1
T
25
S
2-mile RADIUS
REYNOLDS & CARVER
5144'
Johnson-Federal #1
35
2-MILE RADIUS
OTESSA NATURAL
5750'
SHANNON #1
PROPOSED
WILDCAT BUTTE UNIT
T
26
S

CALCULATIONS AND DESIGN DATA

SUBJECT

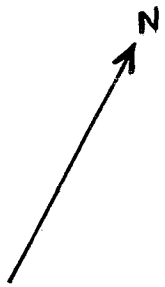
DATE

SHEET



WILDCAT BUTTE UNIT #1-2

EXHIBIT "F"



UNION TEXAS PETROLEUM CORP.

TYPICAL TANK BATTERY

FOOTAGES & CONFIGURATIONS MAY VARY SLIGHTLY, DEPENDING UPON INDIVIDUAL SITUATIONS

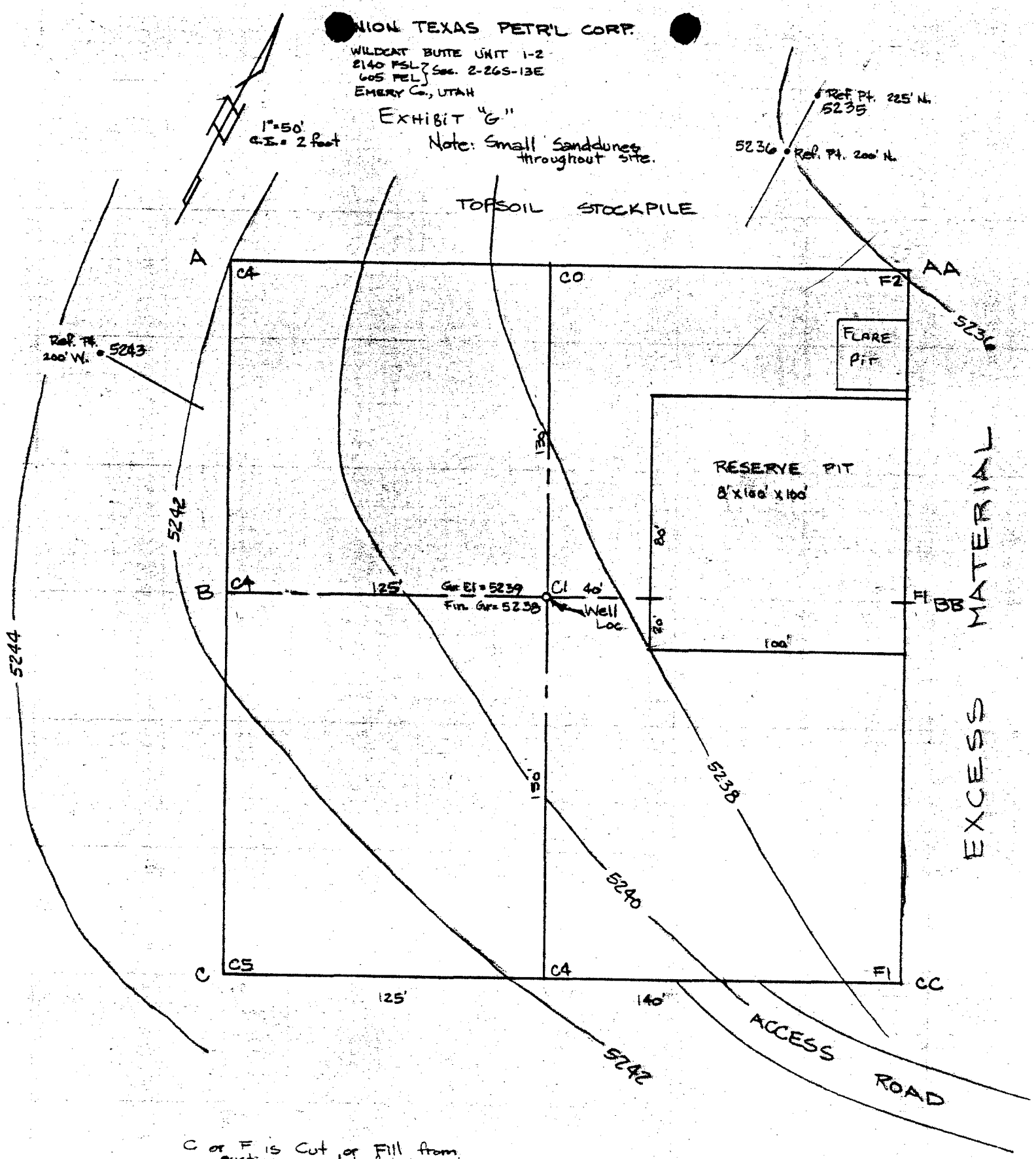
UNION TEXAS PETR'L CORP.

WILDCAT BUTTE UNIT 1-2
2140 FSL } Sec. 2-26S-13E
605 FEL
EMERY Co., UTAH

EXHIBIT "G"

1"=50'
C.I. = 2 feet

Note: Small Sanddunes throughout site.

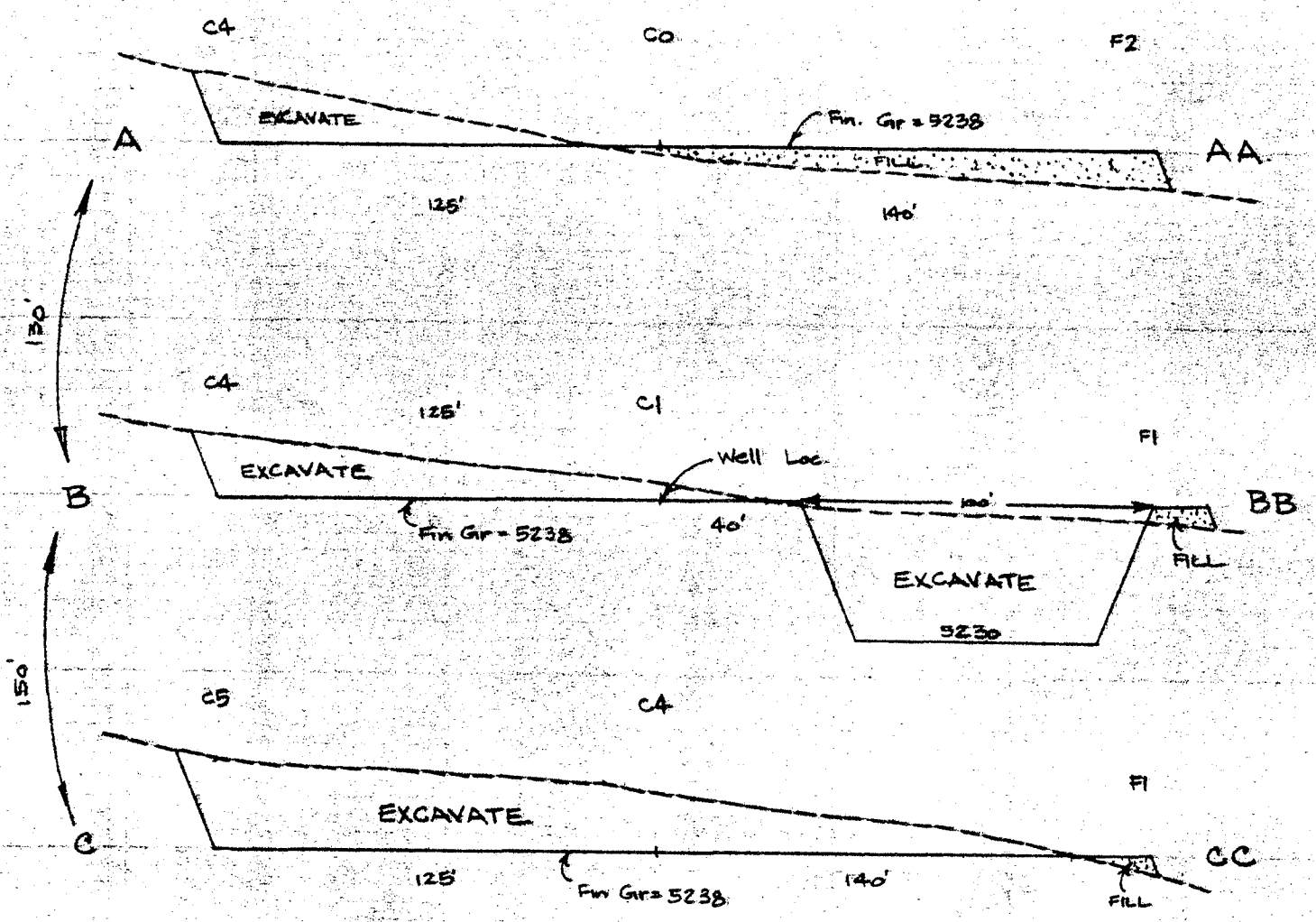


C or F is Cut or Fill from existing ground to finish grade.

Dec. 10, 1982
E. S. STEGNEMAN

POWERS ELEVATION CO.
RICHFIELD, UTAH

EXHIBIT "H"



---- Existing ground
—— Proposed grade

C or F is Cut or Fill from existing ground to finish grade

Scales: 1" = 50' Horiz.
1" = 10' Vert.

All sideslopes @ 2:1.

± 750 yd³ Fill

± 4,550 yd³ Cut

UNION TEXAS PETR'L CORP.

WILDCAT BUTTE UNIT 1-2
NE-SE Sec. 2-26S-13E
EMERY Co, UTAH

Dec. 10, 1982
E.S.S.

POWERS ELEVATION CO.
RICHFIELD, UTAH

UNION TEXAS PETROLEUM

RIG LAYOUT

WILDCAT BUTTE UNIT #1-2

EXHIBIT "I"

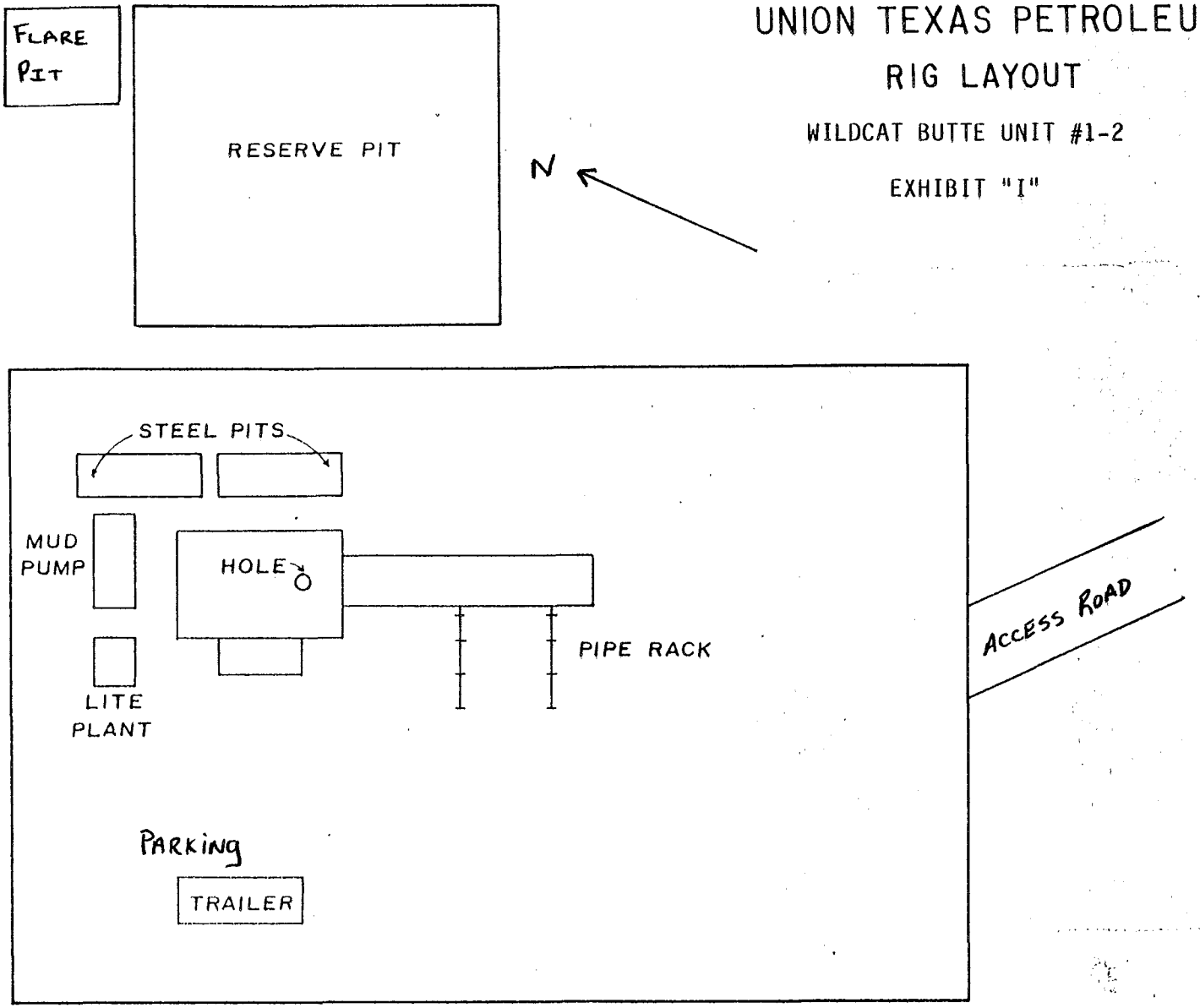


EXHIBIT J

Cultural Resource Management Report

Union Texas Petroleum Corporation
Wild Cat Butte Unit 1-2
Emery County, Utah

Lead Field Investigator Fred Frampton, M.A.

Principal Investigator Bruce E. Rippeteau, Ph.D. and Marcia J. Tate

Date Dec. 21, 1982 **For** Union Texas Petroleum Corporation

POWERS ELEVATION

CHERRY CREEK PLAZA, SUITE 1201
600 SOUTH CHERRY ST., DENVER, COLORADO 80222
(303) 321-2217

Archæology Division

A DIVISION OF PETROLEUM INFORMATION CORPORATION/A SUBSIDIARY OF A.C. NIELSEN COMPANY

POWERS ELEVATION

OIL WELL ELEVATIONS — LOCATIONS
ENVIRONMENTAL — ARCHAEOLOGICAL SERVICES
600 SOUTH CHERRY STREET, SUITE 1201
DENVER, COLORADO 80222
PHONE NO. 303/321-2217

PROJECT IDENTIFICATION: A cultural resource survey for Union Texas Petroleum Corporation, Wild Cat Butte Unit 1-2, well pad, Emery County, Utah.

UTAH ANTIQUITIES PERMIT NO.: 829

FILE SEARCH: A file search conducted December 12, 1982, with the Bureau of Land Management, Price River Resource Area Office and a file search conducted December 15, 1982, with Jim Dykeman of the Division of State History revealed no previously recorded sites or surveys within the project area.

LOCATION: 2,140 feet FSL, & 605 feet FEL; NE¼NE¼SE¼, Section 2, T.26S., R.13E.

MAP REFERENCE: The Flat Tops, 15', 1963

DATE OF INVESTIGATION: December 15, 1982

PERSONNEL: Fred Frampton, Field Investigator; Bruce Rippeteau and Marcia Tate, Principal Investigators.

PROPOSED ACTION: At the request of Union Texas Petroleum Corporation. Fred P. Frampton surveyed a ten acre area (660 by 660 feet) surrounding the centerstake of a proposed two acre well.

In addition, 1.6 mile long access road was surveyed. Approximately 0.1 mile of this access is on State land and 1.5 miles on land administered by the San Rafael Resource Area, Moab District, Bureau of Land Management.

ENVIRONMENT: The proposed well pad is in the San Rafael Desert. The well pad and access road are situated on partially stabilized aeolian sands. This area is best characterized as being gently rugged due to the hummocky nature of the aeolian deposits.

In this immediate area drainages are scarce with most water, except from the most violent of storms, being absorbed into the sands. Permanent water can be found at Dugout Spring five miles to the northeast and the San Rafael River 14 miles to the northeast.

ENVIRONMENT CONTINUED: Vegetation cover is five percent with excellent visibility. Growing primarily on aeolian hummocks were noted scrub oak, Mormon tea, prickly pear cactus, Indian rice grass, and rabbitbrush.

The soil consists of a reddish sand, which is quite deep in this area.

FIELD METHODS: The survey was conducted by walking across a 660 by 660 foot area surrounding a center-stake in a series of 15 meter wide, parallel east/west transects. The access road was examined in two 15-meter wide linear transects.

ADDITIONAL OBSERVATION: The area was covered by a slight snow cover which amounted to about ten percent. It was very thin and patchy and would not affect the ground visibility.

RESULTS: No cultural resources were found.

NATIONAL REGISTER EVALUATION: As no sites were found either during the survey or the initial file search there are no National Register recommendations.

RECOMMENDATIONS: As no sites were found there will be no effect to cultural resources by this project. We recommend that construction of the Union Texas Petroleum Corporation, Wild Cat Butte 1-2, well pad and access proceed as planned.

Union Texas Petroleum Corp.
Wild Cat Butte Unit 1-2
Sections 1 and 2,
T.26S., R.13E.
Emery County, Utah

Center stake
Looking north

Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

BLM Report ID No. [ ]

Report Acceptable Yes ___ No ___

Mitigation Acceptable Yes ___ No ___
Comments: ___

1. Report Title WILDCAT BUTTE 1-2 ACCESS ROUTE (11–40)

2. Development Company Union Texas Petroleum Corporation

3. Report Date 12 (Month, 41–42) 1982 (Year, 43–46)

4. Antiquities Permit No. 82-UT-218

5. Responsible Institution POWER ELEVATION (47–61) County Emery

6. Fieldwork Location: TWN 26S (62–65) Range 13E (66–69) Section(s) 1 (70 71), 2 (72 73)
TWN (78–81) Range (82–85) Section(s) (86 87) (88 89) (90 91) (92 93)

7. Resource Area SR (110 111) TWN (94–97) Range (98–101) Section(s) (102 103) (104 105) (106 107) (108 109)

PO=PONY EXPRESS, BR=BEAR RIVER, PR=PRICE RIVER, WS=WARM SPRINGS
BC=BOOK CLIFFS, HR=HOUSE RANGE, SE=SEVIER RIVER
HM=HENRY MOUNTAINS, BE=BEAVER RIVER, DX=DIXIE
KA=KANAB, ES=ESCALANTE, SJ=SAN JUAN, GR=GRAND
SR=SAN RAFAEL, DM=DIAMOND MOUNTAIN,

Fill in spaces 65, 69, 81, 85, 97, 101 Only if:
V=Vernal Meridian
H=Half Township

8. Description of Examination Procedures: On December 15, 1982, Fred P. Frampton surveyed 1.6 miles of access to a well pad situated on state land. The survey was conducted by walking along the route in two parallel 15-meter wide transects. A total of 18.1 acres was examined.

9. Linear Miles Surveyed and/or 1.5 (112–117)
Definable Acres Surveyed and/or (118–123)
*Legally Undefinable Acres Surveyed 18 (124–129)
(*A parcel hard to cadastrally locate i.e., Center of section)

10. Inventory Type I (130)
R=Reconnaissance
I=Intensive
S=Statistical Sample

11. Description of Findings (attach appendices, if appropriate)
No cultural resources were found.

12. Number Sites Found: 0 (131–135)
No sites=0

13. Collection: N (136) Y=Yes, N=No

14. Actual/Potential National Register Properties Affected: As no sites were found and none have been previously recorded, there will be no National Register properties affected.

15. Literature Search, Location/Date: December 13, 1982, Price River Resource Area

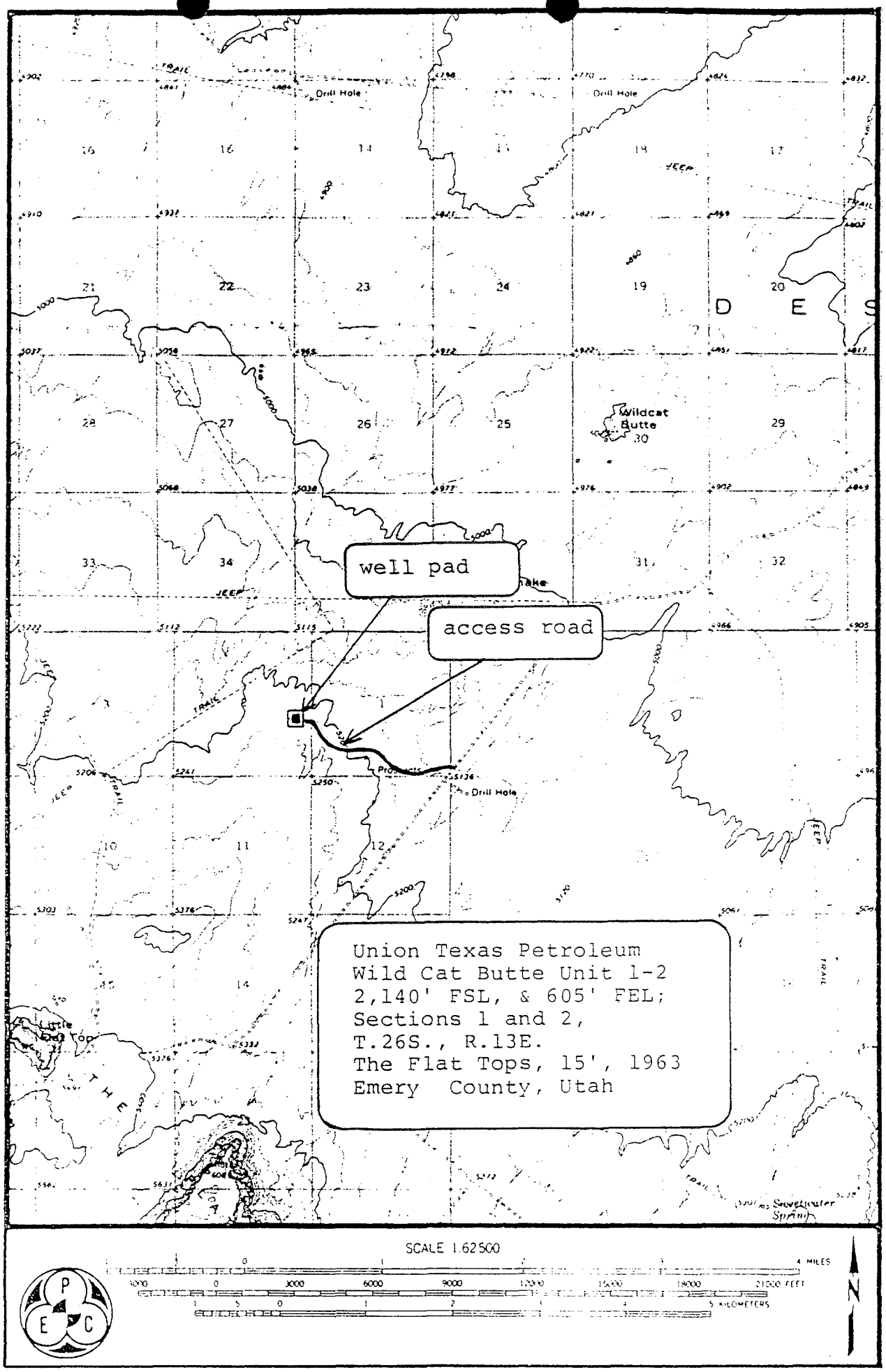
16. Conclusion/Recommendations: As no sites were found there will be no effect to cultural resources by this project. We recommend that construction of the Union Texas Petroleum Corporation access to Wildcat Butte 1-2 proceed as planned.

17. Signature Fred P. Frampton

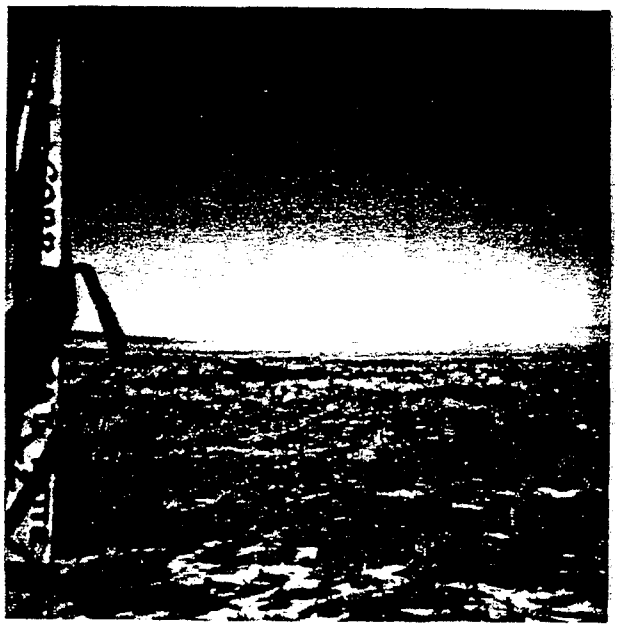
8100-3

Union Texas Petroleum
Wild Cat Butte 1-2
Continuation Sheet

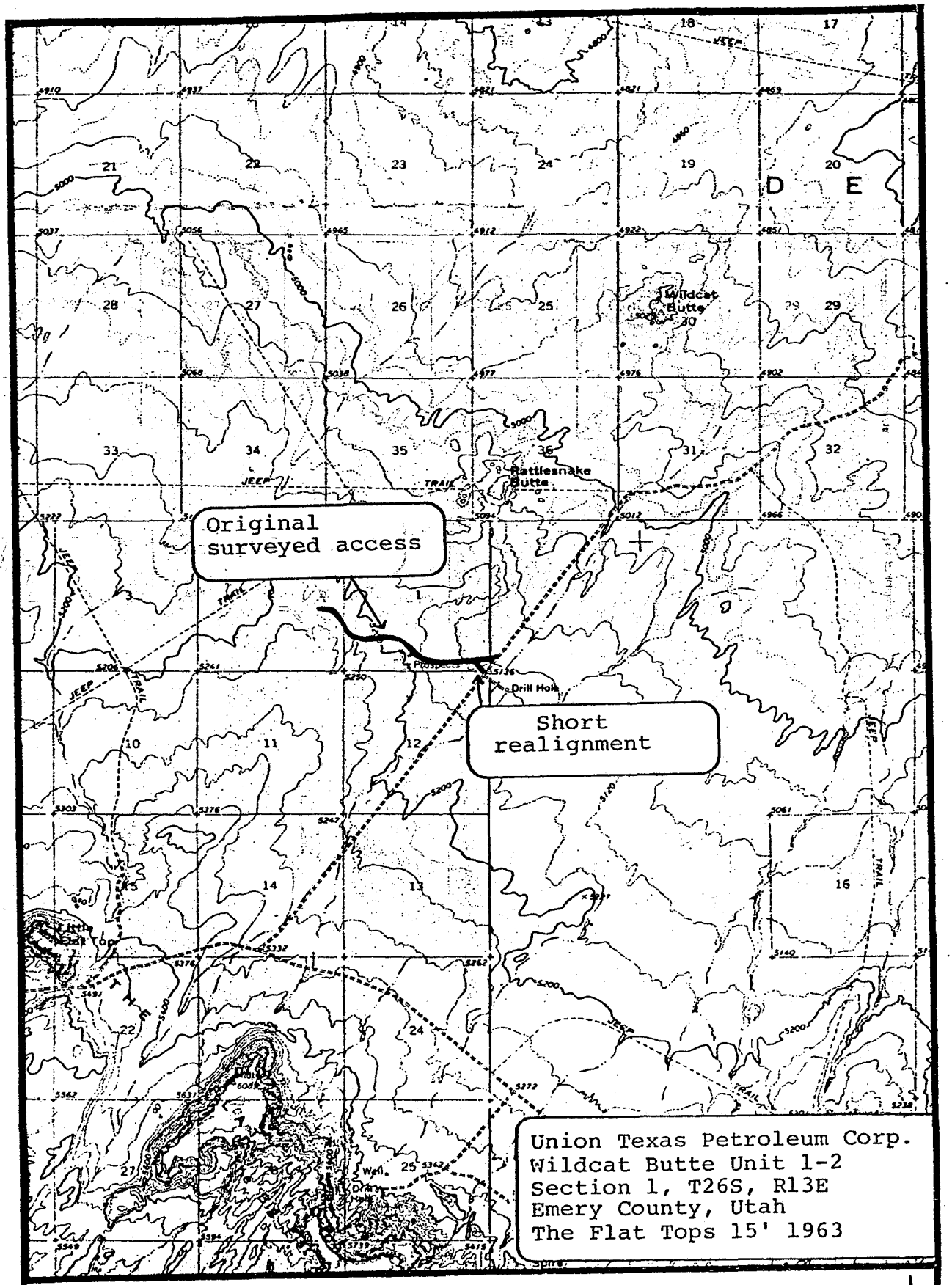
File Search: A file search conducted with Jim Dykeman of the Division of State History, revealed no previously recorded sites or surveys for the project area.


well pad
access road
Union Texas Petroleum
Wild Cat Butte Unit 1-2
2,140' FSL, & 605' FEL;
Sections 1 and 2,
T.26S., R.13E.
The Flat Tops, 15', 1963
Emery County, Utah
Wildcat Butte
Drill Hole
SCALE 1:62500
4 MILES
5 KILOMETERS
N

Union Texas Petroleum Corp.
Wild Cat Butte Unit 1-2
Sections 1 and 2,
T.26S., R.13E.
Emergy County, Utah



Center stake
Looking northwest



SCALE 1:62500

4 MILES

21000 FEET

5 KILOMETERS

N

OPERATOR UNION TEXAS PETROLEUM CORP DATE 2-22-83

WELL NAME WILDCAT BUTTE UNIT # 1-2

SEC NE SE 2 T 26S R 13E COUNTY EMERY

43-015-30162	STATE
API NUMBER	TYPE OF LEASE

POSTING CHECK OFF:

[ ] INDEX	[✓] HL	[/]
[ ] NID	[✓] PI	[ ]
[✓] MAP	[/]	[ ]

PROCESSING COMMENTS:

no wells within 1000'

PJF ✓

APPROVAL LETTER:

SPACING: [X] A-3 WILDCAT BUTTE UNIT [ ] c-3-a _____ CAUSE NO. & DATE

[ ] c-3-b [ ] c-3-c

SPECIAL LANGUAGE:

- [x] RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
- [x] AUTHENTICATE LEASE AND OPERATOR INFORMATION
- [ ] VERIFY ADEQUATE AND PROPER BONDING
- [x] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- [ ] APPLY SPACING CONSIDERATION
  - [ ] ORDER _____
  - [x] UNIT _____
  - [ ] c-3-b
  - [ ] c-3-c
- [x] OUTSTANDING OR OVERDUE REPORTS FOR OTHER WELLS OF THE OPERATOR.
- [x] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

No bond on file yet as per Ed - 2-23-83

OK - D G ARINCE 3-22-83

Ruthie -

asked for copy of approved units or omission of "unit" from well names. She said Tom Belsha would return call.

Tom
2/22/83

Tom Belsha advised that they wanted to hold processing until they could insure we received copies of the approved units in question.

Tom
2-22-83

To Norm

Date 3-14 Time 11:06

WHILE YOU WERE OUT

M Tom Belsha

of

Phone 303-695-8778

TELEPHONED		PLEASE CALL	✓
CALLED TO SEE YOU		WILL CALL AGAIN	
RETURNED YOUR CALL		URGENT	
CALLING LONG DISTANCE			

tried 1:45

Message

Operator

Reminded Tom Belsha
of the need for a State Bond.

Tom
3-15-83

March 22, 1983

Union Texas Petroleum Corporation
14001 E. Iliff Avenue, Suite 500
Aurora, Colorado 80014

RE: Wildcat Butte Unit #1-2
NESE Sec. 2, T.26S, R.13E
2140' FSL, 605' FEL
Emery County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

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

RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

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 43-015-30162.

Sincerely,

Norman C. Stout
Administrative Assistant

NCS/as
cc: State Lands
Enclosure

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Union Texas Petroleum Corp.

WELL NAME: Wildcat Butte #1-2

SECTION NESE 2 TOWNSHIP 26S RANGE 13E COUNTY Emery

DRILLING CONTRACTOR Richardson Drilling Company

RIG # 1

SPUDDED: DATE 3-30-83

TIME 4:30 PM

HOW Rotary

DRILLING WILL COMMENCE _____

REPORTED BY Tom Belsha

TELEPHONE # 303-695-8778

DATE 4-5-83 SIGNED Norm

NOTICE OF SPUD

Company: UNION TEXAS PETROLEUM CORP.

Caller: TOM BELSHA

Phone: 303 695 8778

Well Number: 1-2

Location: sec. 2, 26S, 13E

County: EMERY State: UTAH

Lease Number: fee lease

Lease Expiration Date:

Unit Name (If Applicable): Wildcat Butte Unit.

Date & Time Spudded: 4:30 PM March 30, 1983

Dry Hole Spudder/Rotary: Rotary

Details of Spud (Hole, Casing, Cement, etc.) 12 1/4" hole 8 5/8" @ 369' cemented 360 SX - presently @ 1619' 7 7/8" hole.

Rotary Rig Name & Number: Richardson rig #1

Approximate Date Rotary Moves In:

FOLLOW WITH SUNDRY NOTICE

Call Received By: Pascal Caffrey

Date: 4-6-83

Form OGC-1b

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Union Texas Petroleum Corporation

3. ADDRESS OF OPERATOR: 14001 East Iliff Ave., Suite 500, Aurora, CO 80014

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2140' FSL & 605' FEL (NE/4, SE/4)

5. LEASE DESIGNATION AND SERIAL NO.: ML 29405 (State)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Wildcat Butte

8. FARM OR LEASE NAME:

9. WELL NO.: 1-2

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 2, T26S-R13E

12. COUNTY OR PARISH: Emery

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5239' GR

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) Spudding & drilling			[X]
(Other)			[ ]				

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

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

1. MI & RU Richardson Rig #1. Spudded 12-1/4" hole at 4:30 p.m. on 3/30/1983.
2. Drilled to 376' w/mist. Moved off Richardson Rig #1 & moved on Gushco Rig #1.
3. Set 8-5/8", 23#, K-42 casing at 369' & cemented w/360 sx, circ to surface.
4. Waited on cement 4 hr, nipple up 3000# BOP stack & tested BOP's & casing to 850#, held ok.
5. Drilled 7-7/8" hole w/mist to 2590'. Per telephone conversation w/A. M. Raffoul on 4/8/83, obtained permission to stop at this point & still fulfill Unit obligations. Encountered water flows as per attached Utah State Form "OGC-8-X".
6. Ran DIL-SFL, CNL-FDC, sonic & dipmeter from TD to surface casing.
7. Set 5-1/2", 15.5#, K-55 casing at 2551' & cemented w/534 sx cement flash set, leaving additional 166 sx in casing. Finished job at 11:30 a.m. on 4/10/1983.
8. Moved off Gushco Rig #1 & waiting on completion unit.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 4-25-83
BY: [signature]

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

SIGNED [signature] TITLE Area Operations Manager DATE 4/12/1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form OGC-1b

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

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

3

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Union Texas Petroleum Corporation

3. ADDRESS OF OPERATOR: 14001 E Iliff Ave., Suite 500, Aurora, CO 80014

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2140' FSL & 605' FEL (NE/4, SE/4)

5. LEASE DESIGNATION AND SERIAL NO.: ML 29405 (State)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Wildcat Butte Unit

8. FARM OR LEASE NAME:

9. WELL NO.: 1-2

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 2, T26S-R13W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5239' GR

12. COUNTY OR PARISH: Emery Co

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	[X]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[X]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]				

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

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

1. Drilled out cement to 2509'.
2. Perforated 2430-42' w/4 SPF & pumped 24 bbl xylene into formation. Swabbed 18-1/2 bbl xylene with a trace of oil & no water.
3. Stressfrac'd same interval. Swabbed 19-1/2 bbl formation water with 2% xylene & a trace of oil.
4. Perforated & stressfrac'd 2316-24 w/4 SPF. Set bridge plug at 2375'. Swabbed dry.
5. Perforated & stressfrac'd 1906-12' w/4 SPF. Moved bridge plug up to 2000'.
6. Swabbed 10 bbl formation water, 10-15% BS & trace oil.
7. Pulled bridge plug, installed tubing head & ran 1 jt 2-3/8" tubing.
8. Well SI, pending further evaluation.

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

SIGNED Thomas C. Delgha TITLE Area Operations Manager DATE April 19, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED ~~APPROVED~~ BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 4/27/83
BY: [signature]

*See Instructions on Reverse Side

Union Texas Petroleum

14001 E Iliff Aven
Suite 500
Aurora, Colorado 80014
(303) 695-8778

May 13, 1983

State of Utah
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Gentlemen:

Please hold all information confidential concerning the following wells recently drilled by Union Texas Petroleum Corporation in Emery County, Utah:

Little Flat Top Unit #1-25, Section 25, T25S-R14E

Wildcat Butte Unit #1-2, Section 2, T26S-R13E

If you have any questions, please call me at (303) 695-8778.

Thomas C. Belsha
Area Operations Manager

TCB:dkc

RECEIVED
MAY 16 1983
DIVISION OF
OIL, GAS & MINING

Union Texas Petroleum

14001 E Iliff Avenue
Suite 500
Aurora, Colorado 80014
(303) 695-8778

July 20, 1983

State of Utah
Natural Resources and Energy
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, UT 84114

ATTN: Mr. Norm Stout

Dear Mr. Stout:

I have recently replaced Tom Belsha as Area Operations Manager for Union Texas Petroleum Corporation.

I am enclosing triplicate copies of the Completion Notice for our Wildcat Butte #1-2. Also enclosed is a complete set of logs run on this well.

As you can see, this well is not a commercial success; therefore, Union Texas requests permission to plug and abandon this well. I will appreciate you furnishing plugging instructions to us. I will be in contact with you when we are ready to plug.

Thank you.

Sincerely yours,

UNION TEXAS PETROLEUM CORPORATION

J. B. Stewart
Area Operations Manager

JBS:dkc

Joe

I left a msg for Joe, that it would be appropriate for them to submit a plugging program, rather than asking us to develop the program. Typing with his rec. Dictate.
Norm
7-22-83

RECEIVED
JUL 22 1983
DIVISION OF
OIL, GAS & MINING

Form OGCC-3

CONFIDENTIAL

2
9

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR: UNION TEXAS PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR: 14001 E Iliff Ave., Suite 500, Aurora, CO 80014

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 2140' FSL & 605' FEL Sec 2, T26S-R13W
At top prod. interval reported below Same
At total depth Same

NESE

5. LEASE DESIGNATION AND SERIAL NO.: ML 29405 (State)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Wildcat Butte Unit

8. FARM OR LEASE NAME:

9. WELL NO.: 1-2

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec 2, T26S-R13~~W~~E

14. PERMIT NO.: 43-015-30162 DATE ISSUED: 3/22/1983

12. COUNTY OR PARISH: Emery

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
3/30/1983	4/8/1983		5239 GL	5239 GL

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
2590	2509	N/A	→	0-2590	0

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None: Zones will not produce, ~~temporarily abandoned~~ PLUGGED + ABANDONED

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Schlumberger DIL-SFL, CNL-FDC, BHC Sonic & Dipmeter CBL CP

27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	23	369	12-1/4"	360 sx Class "G"	0
5-1/2"	15.5	2551	7-7/8"	534 sx Thixotropic	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A		

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

2430-42	4 SPF	0.43"
2316-24	4 SPF	0.43"
1906-12	4 SPF	0.43"

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2430-42	Stress Frac
2316-24	Stress Frac
1906-12	Stress Frac

33.* PRODUCTION

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

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

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
N/A		→				

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

RECEIVED JUL 22 1983 DIV. OF OIL, GAS & MINING

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

SIGNED [signature] TITLE Area Operations Manager DATE 7/19/1983

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

CONFIDENTIAL

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.
Navajo	360'	906'	Encountered fresh water flows
Lower Moenkopi	2242'	2410'	Noted minor shows of high viscosity hydrocarbons while drilling. Did not recover any hydrocarbons from test (2314-25').

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Navajo	360'	
Kayenta	997'	
Wingate	1152'	
Upper Moenkopi	1749'	
Middle Moenkopi (Sinbad)	2209'	
Lower Moenkopi	2242'	
Kaibab	2410'	
Coconino	2419'	

BEST COPY AVAILABLE

****
*
* CONFIDENTIAL
*
****

-----SCHLUMBERGER------

****

SCHLUMBERGER DIRECTIONAL SURVEY

UNION TEXAS PETRO. CORP.

WILDCAT BUTTE UNIT #1-2

WILDCAT

EMERY COUNTY,UTAH

RUN NO. 1 658 - 2578

APRIL 09, 1983

START OF SURVEY IS AT 658 FT.

EXACT RADIUS OF CURVATURE METHOD

REFERENCE JOB 16155.

RECEIVED
JUL 22 1983
DIV. OF OIL, GAS & MINING

Schlumberger

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
658.0	1.9	204	658.0	0.0	0.0	0.0
660.0	1.9	203	660.0	-0.1	0.0	0.1
680.0	1.9	206	680.0	-0.7	-0.3	0.7
700.0	1.9	212	700.0	-1.2	-0.6	1.4
720.0	1.6	215	720.0	-1.8	-0.9	2.0
740.0	1.6	218	740.0	-2.2	-1.3	2.5
760.0	1.4	223	760.0	-2.6	-1.6	3.1
780.0	1.5	231	779.9	-2.9	-2.0	3.5
800.0	1.5	232	799.9	-3.2	-2.4	4.0
820.0	1.6	238	819.9	-3.6	-2.8	4.6
840.0	1.6	245	839.9	-3.8	-3.3	5.1
860.0	1.6	247	859.9	-4.1	-3.8	5.6
880.0	1.6	248	879.9	-4.3	-4.4	6.1
900.0	1.6	253	899.9	-4.5	-4.9	6.6
920.0	1.6	261	919.9	-4.6	-5.4	7.1
940.0	1.6	263	939.9	-4.7	-6.0	7.6
960.0	1.6	266	959.9	-4.7	-6.5	8.1
980.0	1.8	261	979.9	-4.8	-7.1	8.6
1000.0	1.6	259	999.9	-4.9	-7.7	9.1
1020.0	1.5	263	1019.9	-5.0	-8.3	9.6
1040.0	1.5	263	1039.8	-5.0	-8.8	10.1
1060.0	1.6	264	1059.8	-5.1	-9.3	10.6
1080.0	1.4	262	1079.8	-5.2	-9.9	11.1
1100.0	1.4	258	1099.8	-5.2	-10.3	11.6
1120.0	1.3	254	1119.8	-5.4	-10.8	12.1
1140.0	1.3	251	1139.8	-5.5	-11.2	12.5
1160.0	1.2	251	1159.8	-5.6	-11.7	12.9
1180.0	1.0	252	1179.8	-5.8	-12.0	13.3
1200.0	1.0	249	1199.8	-5.9	-12.3	13.7
1220.0	1.0	231	1219.8	-6.0	-12.6	14.0
1240.0	1.0	211	1239.8	-6.3	-12.8	14.3
1260.0	1.0	206	1259.8	-6.6	-13.0	14.6
1280.0	1.0	226	1279.8	-6.9	-13.2	14.9
1300.0	1.0	234	1299.8	-7.1	-13.5	15.2
1320.0	0.9	236	1319.8	-7.3	-13.8	15.6
1340.0	0.8	240	1339.8	-7.4	-14.0	15.8
1360.0	0.6	251	1359.8	-7.5	-14.2	16.1
1380.0	0.6	246	1379.8	-7.6	-14.4	16.3
1400.0	0.7	244	1399.8	-7.7	-14.6	16.5
1420.0	0.7	248	1419.8	-7.8	-14.8	16.8
1440.0	0.6	257	1439.8	-7.9	-15.0	17.0
1460.0	0.8	267	1459.8	-7.9	-15.3	17.2
1480.0	1.0	265	1479.8	-7.9	-15.6	17.5
1500.0	1.0	263	1499.8	-8.0	-15.9	17.8
1520.0	1.0	256	1519.8	-8.0	-16.3	18.2
1540.0	0.7	254	1539.8	-8.1	-16.6	18.5

Schlumberger

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	CO-ORDINATES + EAST - WEST	COURSE LENGTH FT
1560.0	0.5	277	1559.8	-8.1	-16.8	18.7
1580.0	0.4	282	1579.8	-8.1	-17.0	18.8
1600.0	0.9	299	1599.8	-8.0	-17.1	18.9
1620.0	0.6	322	1619.8	-7.8	-17.3	19.0
1640.0	0.8	316	1639.8	-7.7	-17.5	19.1
1660.0	0.9	283	1659.8	-7.6	-17.8	19.4
1680.0	0.7	283	1679.8	-7.5	-18.1	19.6
1700.0	0.7	305	1699.8	-7.4	-18.2	19.7
1720.0	0.7	296	1719.8	-7.3	-18.4	19.8
1740.0	0.8	280	1739.8	-7.2	-18.7	20.0
1760.0	0.6	254	1759.7	-7.2	-19.0	20.3
1780.0	0.4	205	1779.7	-7.3	-19.1	20.4
1800.0	0.7	168	1799.7	-7.5	-19.1	20.5
1820.0	1.1	149	1819.7	-7.8	-18.9	20.5
1840.0	1.4	141	1839.7	-8.1	-18.7	20.4
1860.0	1.6	136	1859.7	-8.5	-18.3	20.2
1880.0	1.8	128	1879.7	-8.9	-17.8	19.9
1900.0	1.7	133	1899.7	-9.3	-17.4	19.7
1920.0	1.9	131	1919.7	-9.7	-16.9	19.5
1940.0	1.9	136	1939.7	-10.1	-16.4	19.3
1960.0	1.8	137	1959.7	-10.6	-15.9	19.1
1980.0	1.9	135	1979.7	-11.1	-15.5	19.0
2000.0	1.9	136	1999.7	-11.5	-15.0	18.9
2020.0	2.1	136	2019.6	-12.0	-14.5	18.9
2040.0	2.1	134	2039.6	-12.6	-14.0	18.8
2060.0	2.2	131	2059.6	-13.1	-13.5	18.8
2080.0	2.2	128	2079.6	-13.6	-12.9	18.7
2100.0	2.2	130	2099.6	-14.1	-12.3	18.7
2120.0	2.2	129	2119.6	-14.5	-11.7	18.7
2140.0	2.2	128	2139.6	-15.0	-11.1	18.7
2160.0	2.3	127	2159.5	-15.5	-10.5	18.7
2180.0	2.4	126	2179.5	-16.0	-9.8	18.7
2200.0	2.5	124	2199.5	-16.4	-9.1	18.8
2220.0	2.6	125	2219.5	-16.9	-8.3	18.9
2240.0	2.6	123	2239.5	-17.5	-7.6	19.0
2260.0	2.6	122	2259.5	-18.0	-6.8	19.2
2280.0	2.6	123	2279.4	-18.4	-6.1	19.4
2300.0	2.6	123	2299.4	-18.9	-5.3	19.7
2320.0	2.6	125	2319.4	-19.4	-4.6	20.0
2340.0	2.6	126	2339.4	-20.0	-3.8	20.3
2360.0	2.6	126	2359.3	-20.5	-3.1	20.7
2380.0	2.6	127	2379.3	-21.0	-2.4	21.2
2400.0	2.8	126	2399.3	-21.6	-1.6	21.7
2420.0	2.9	126	2419.3	-22.2	-0.8	22.2
2440.0	2.9	125	2439.3	-22.8	0.0	22.8
2460.0	2.9	125	2459.2	-23.4	0.9	23.4

Schlumberger

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
2480.0	2.9	123	2479.2	-23.9	1.7	24.0
2500.0	2.9	123	2499.2	-24.5	2.6	24.6
2520.0	2.9	119	2519.2	-25.0	3.4	25.2
2540.0	2.9	118	2539.1	-25.5	4.3	25.8
2560.0	2.9	118	2559.1	-26.0	5.2	26.5
2578.0	2.6	116	2577.1	-26.4	6.0	27.0

Schlumberger

```
*****************************************************************
*                    BOTTOM HOLE LOCATION                       *
*                                                               *
*                    COURSE LENGTH:          27.0  FT           *
*                                                               *
*                    COURSE AZIMUTH:        167.2  DEGREES      *
*                                                               *
*                                                               *
*                    MEASURED DEPTH:       2578.0  FT           *
*                                                               *
*                    TRUE VERTICAL DEPTH:  2577.1  FT           *
*                                                               *
*                    DISTANCE SOUTH:         26.4  FT           *
*                                                               *
*                    DISTANCE EAST:           6.0  FT           *
*                                                               *
*                                                               *
*                    EXACT RADIUS OF CURVATURE METHOD           *
*                                                               *
*****************************************************************
```

Schlumberger

BEST COPY
AVAILABLE

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

HIGH RESOLUTION

DIPMETER

****

CLUSTER LISTING
****

UNION TEXAS PETRO. CORP.

WILDCAT

EMERY , UTAH

WILDCAT BUTTE UNIT #1-2

RUN NO. ONE JOB NO. 16155

CLUSTER RESULTS ONLY

4 FT. CORR. - 2 FT. STEP

40 DEG. X2 SEARCH ANGLE

Schlumberger

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

HIGH RESOLUTION

DIPMETER

****

CLUSTER LISTING
****

UNION TEXAS PETRO. CORP.

WILDCAT

EMERY , UTAH

WILDCAT BUTTE UNIT #1-2

RUN NO. ONE JOB NO. 16155

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
658.0	17.1	207	1.9	204	9.6	10.1	D
660.0	21.2	111	1.9	203	9.6	10.2	D
662.0	16.1	207	1.9	202	9.7	10.3	D
664.0	15.3	208	1.9	202	9.7	10.2	B
666.0	1.7	49	1.9	201	9.8	10.1	B
668.0			1.9	201	9.8	10.1	
670.0			1.9	202	9.8	10.1	
672.0	2.0	34	1.9	202	9.7	10.1	D
674.0	12.9	216	1.9	203	9.7	10.2	D
676.0	15.2	216	1.9	204	9.7	10.2	B
678.0	26.7	142	1.9	205	9.6	10.1	D
680.0	30.1	162	1.9	206	9.6	10.2	B
682.0			1.9	207	9.6	10.2	
684.0	18.5	130	1.9	208	9.5	10.2	B
686.0	24.4	129	1.9	209	9.5	10.2	B
688.0	25.3	129	1.9	209	9.4	10.2	D
690.0	18.6	121	1.9	209	9.4	10.3	D
692.0	18.6	191	1.9	209	9.3	10.3	D
694.0	10.7	91	1.9	210	9.1	10.2	D
696.0	3.0	82	1.9	210	9.0	10.0	B
698.0	5.7	106	1.9	211	8.9	9.8	D
700.0	4.2	101	1.9	212	8.8	9.6	B
702.0	7.7	179	1.8	212	8.8	9.5	D
704.0	24.4	182	1.8	212	8.7	9.4	B
706.0	22.9	178	1.8	212	8.7	9.3	B
708.0	0.9	193	1.8	213	8.6	9.3	D
710.0	18.9	233	1.7	213	8.6	9.4	B
712.0	18.0	240	1.6	214	8.7	9.5	D
714.0	20.9	181	1.6	214	8.8	9.7	A
716.0	20.0	181	1.6	214	8.8	9.8	A
718.0	20.1	180	1.6	214	8.9	9.8	A
720.0	22.2	177	1.6	215	9.0	9.9	A
722.0	22.3	179	1.6	215	9.1	10.0	A
724.0	21.6	182	1.6	215	9.2	10.1	A
726.0	22.2	186	1.6	215	9.3	10.1	A
728.0	23.7	201	1.6	215	9.4	10.1	A
730.0	23.3	199	1.6	216	9.4	10.1	A
732.0	23.2	197	1.6	216	9.5	10.1	A
734.0	22.0	194	1.6	217	9.6	10.1	A
736.0	22.1	194	1.6	217	9.6	10.1	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
738.0	20.9	193	1.6	217	9.7	10.1	A
740.0	21.5	193	1.6	218	9.6	10.1	A
742.0	23.7	190	1.5	219	9.6	10.2	A
744.0	22.4	206	1.5	220	9.5	10.2	A
746.0	19.6	203	1.5	222	9.5	10.0	A
748.0	21.8	190	1.5	222	9.5	9.9	A
750.0	23.3	185	1.5	222	9.5	10.0	A
752.0	22.5	183	1.5	221	9.5	10.1	A
754.0	22.7	185	1.4	222	9.5	10.1	A
756.0	22.5	188	1.4	223	9.5	10.1	A
758.0	21.4	189	1.4	223	9.5	10.0	A
760.0	6.6	235	1.4	223	9.6	9.9	A
762.0	23.2	207	1.3	224	9.5	9.8	A
764.0	23.3	208	1.3	225	9.5	9.8	A
766.0	22.8	209	1.3	226	9.5	9.8	A
768.0	22.2	207	1.4	227	9.6	9.9	A
770.0			1.3	229	9.6	9.9	
772.0	8.1	217	1.3	231	9.6	9.9	C
774.0	4.9	238	1.4	232	9.7	9.9	A
776.0	4.6	230	1.4	232	9.9	10.0	A
778.0			1.5	231	10.1	10.1	
780.0			1.5	231	10.2	10.2	
782.0	4.8	92	1.6	232	10.3	10.2	A
784.0	3.4	118	1.6	232	10.3	10.3	A
786.0	9.0	101	1.6	232	10.3	10.3	C
788.0	4.7	268	1.6	233	10.2	10.2	C
790.0	9.1	260	1.6	233	10.1	10.1	C
792.0	6.9	232	1.6	233	10.0	10.1	A
794.0	2.1	137	1.6	232	10.0	10.1	A
796.0	3.0	116	1.6	232	10.0	10.1	A
798.0	6.1	94	1.6	232	10.0	10.1	A
800.0			1.5	232	10.0	10.0	
802.0			1.5	232	9.9	9.9	
804.0			1.5	232	9.8	9.7	
806.0	2.9	69	1.6	232	9.7	9.5	A
808.0	4.6	95	1.6	232	9.6	9.4	A
810.0	7.0	102	1.6	232	9.5	9.3	A
812.0	3.5	109	1.6	233	9.4	9.1	A
814.0	4.8	201	1.6	233	9.3	9.0	A
816.0	8.5	210	1.6	234	9.3	8.9	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
818.0	21.1	152	1.6	237	9.2	8.8	A
820.0	21.3	153	1.6	238	9.1	8.8	A
822.0	21.1	155	1.6	240	9.1	8.7	A
824.0	20.8	151	1.6	242	9.1	8.7	A
826.0	21.0	145	1.6	243	9.1	8.7	A
828.0	21.0	139	1.6	244	9.0	8.8	A
830.0	20.9	162	1.6	244	8.9	8.8	A
832.0	23.9	165	1.6	244	8.9	8.7	A
834.0	22.8	161	1.6	244	8.8	8.7	A
836.0	24.0	157	1.6	245	8.8	8.7	A
838.0	32.5	161	1.6	245	8.8	8.7	C
840.0	21.7	162	1.6	245	8.8	8.7	A
842.0	22.4	162	1.6	245	8.8	8.8	B
844.0	20.0	163	1.6	245	8.9	8.8	B
846.0	19.5	168	1.6	245	8.9	8.9	B
848.0	17.4	168	1.6	246	9.0	8.9	D
850.0	7.1	352	1.6	246	8.9	8.9	B
852.0	4.2	330	1.6	246	9.0	9.0	B
854.0	2.9	323	1.6	246	9.1	9.0	B
856.0			1.6	246	9.1	9.1	
858.0			1.6	246	9.1	9.1	
860.0			1.6	247	9.2	9.1	
862.0	17.0	190	1.6	246	9.2	9.0	D
864.0			1.6	246	9.1	8.9	
866.0	13.6	189	1.6	247	9.0	8.8	B
868.0	12.4	179	1.6	248	8.9	8.7	B
870.0	1.6	122	1.6	248	8.8	8.6	B
872.0	16.3	164	1.6	248	8.9	8.7	D
874.0	19.9	124	1.6	248	8.9	8.7	B
876.0	17.3	117	1.6	248	8.9	8.7	B
878.0	9.0	98	1.6	248	8.9	8.7	B
880.0	0.8	136	1.6	248	8.8	8.6	B
882.0	0.2	346	1.6	247	8.8	8.7	D
884.0	0.4	339	1.6	247	8.8	8.8	B
886.0	4.0	177	1.6	248	9.0	9.0	B
888.0	5.2	120	1.6	248	9.2	9.2	B
890.0	1.6	137	1.6	248	9.5	9.5	B
892.0	16.2	134	1.6	248	9.7	9.7	D
894.0	22.6	180	1.6	250	10.0	10.0	D
896.0	28.9	193	1.6	251	10.2	10.2	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
898.0	24.2	175	1.6	252	10.3	10.4	D
900.0	22.4	181	1.6	253	10.5	10.6	B
902.0	22.9	185	1.6	254	10.6	10.6	B
904.0	16.6	232	1.6	256	10.6	10.6	B
906.0	20.8	209	1.6	257	10.6	10.6	D
908.0	18.8	175	1.6	257	10.5	10.6	D
910.0			1.6	257	10.4	10.5	
912.0			1.6	258	10.3	10.3	
914.0	32.4	185	1.6	259	10.0	10.0	D
916.0	26.7	167	1.6	261	9.8	9.8	D
918.0			1.6	261	9.6	9.7	
920.0	27.7	191	1.6	261	9.5	9.5	B
922.0	0.8	218	1.6	262	9.2	9.3	A
924.0	1.6	218	1.6	264	9.0	9.1	A
926.0	3.1	196	1.6	264	9.0	9.1	A
928.0	2.5	185	1.6	264	9.0	9.1	A
930.0	2.8	126	1.6	264	8.9	9.0	A
932.0	1.3	115	1.6	264	8.9	9.0	A
934.0	2.2	98	1.6	264	9.0	9.1	C
936.0	0.5	103	1.6	263	9.0	9.1	A
938.0	0.6	139	1.6	263	9.0	9.1	A
940.0	3.3	147	1.6	263	9.0	9.1	A
942.0	1.2	112	1.6	263	9.0	9.1	A
944.0	0.6	28	1.6	263	9.1	9.2	A
946.0	1.9	32	1.6	263	9.1	9.2	A
948.0	3.5	62	1.6	263	9.1	9.2	A
950.0			1.6	264	9.1	9.2	
952.0	2.5	180	1.6	264	9.1	9.2	A
954.0	3.5	204	1.6	264	9.1	9.2	A
956.0	5.9	15	1.6	264	9.1	9.2	A
958.0	7.1	13	1.6	265	9.1	9.1	A
960.0	3.2	10	1.6	266	9.1	9.1	A
962.0	1.6	328	1.6	266	9.0	9.0	A
964.0	0.7	17	1.7	266	8.9	8.9	A
966.0	0.9	26	1.7	266	8.9	8.9	A
968.0	0.8	10	1.7	266	8.9	8.9	A
970.0	2.6	102	1.8	266	9.0	8.9	A
972.0	4.0	110	1.8	265	9.0	9.0	A
974.0	1.9	40	1.8	263	8.9	9.0	C
976.0	0.7	30	1.8	262	8.9	8.9	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
978.0	0.8	350	1.8	261	8.9	8.9	A
980.0	2.3	1	1.8	261	8.9	8.9	A
982.0	2.6	2	1.8	260	9.0	9.0	A
984.0	1.7	97	1.7	259	9.1	9.1	D
986.0			1.7	259	9.2	9.1	
988.0	4.8	75	1.7	259	9.1	9.1	B
990.0	4.4	92	1.7	259	9.0	8.9	D
992.0			1.7	259	8.8	8.7	
994.0	1.9	230	1.6	259	8.7	8.6	D
996.0	5.6	139	1.6	259	8.7	8.6	D
998.0	3.6	108	1.6	259	8.8	8.6	B
1000.0	5.8	53	1.6	259	8.8	8.6	A
1002.0	3.2	33	1.6	259	8.8	8.7	A
1004.0	2.5	36	1.5	259	9.0	8.8	A
1006.0	1.9	56	1.5	259	9.1	8.9	A
1008.0	2.0	82	1.5	260	9.1	8.9	A
1010.0	6.1	340	1.5	259	9.1	8.9	A
1012.0	2.9	74	1.5	259	9.1	8.9	A
1014.0	3.8	68	1.5	260	9.1	8.8	A
1016.0	3.3	69	1.5	261	9.1	8.8	A
1018.0	2.4	60	1.5	262	9.1	8.8	A
1020.0	2.1	57	1.5	263	9.1	8.8	A
1022.0	4.0	218	1.5	263	9.1	8.8	A
1024.0	7.0	177	1.5	263	9.0	8.8	C
1026.0	4.5	201	1.5	262	9.1	8.8	C
1028.0	3.1	220	1.5	262	9.1	8.9	C
1030.0	9.4	144	1.5	262	9.1	8.9	A
1032.0	3.5	311	1.5	262	9.1	8.9	C
1034.0	2.1	346	1.5	262	9.0	8.9	A
1036.0	2.1	55	1.5	262	9.1	8.9	A
1038.0	4.0	61	1.5	262	9.1	8.9	A
1040.0	2.2	5	1.5	263	9.1	8.9	A
1042.0	3.2	33	1.5	263	9.2	8.9	A
1044.0	2.3	28	1.5	262	9.2	8.9	A
1046.0	1.5	49	1.5	263	9.2	8.9	A
1048.0	1.7	73	1.5	263	9.2	8.9	A
1050.0	2.0	126	1.6	264	9.1	8.9	A
1052.0	0.9	64	1.6	264	9.1	8.9	A
1054.0	18.3	37	1.6	263	9.0	8.9	A
1056.0	16.5	27	1.6	263	9.0	8.9	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
1058.0	16.2	25	1.6	264	9.0	8.9	C
1060.0	13.2	317	1.6	264	9.0	8.9	D
1062.0	14.1	330	1.6	264	9.0	8.8	B
1064.0	16.8	343	1.6	264	8.9	8.7	B
1066.0	17.4	87	1.6	264	8.9	8.7	B
1068.0	5.1	102	1.6	264	8.9	8.7	D
1070.0	4.1	100	1.6	264	8.9	8.7	B
1072.0	4.6	178	1.6	264	8.9	8.7	B
1074.0	4.4	173	1.6	264	8.9	8.7	B
1076.0	11.0	288	1.5	263	8.9	8.7	B
1078.0	22.2	342	1.5	262	8.9	8.8	D
1080.0	12.9	351	1.4	262	8.9	8.8	B
1082.0	13.4	349	1.4	262	8.9	8.8	B
1084.0			1.4	263	8.9	8.9	
1086.0	0.9	280	1.4	262	9.0	8.9	D
1088.0	20.4	121	1.4	262	9.0	8.9	B
1090.0	20.5	120	1.4	262	9.0	8.9	D
1092.0	3.2	73	1.4	262	9.0	9.0	D
1094.0	2.7	68	1.4	260	9.0	9.0	D
1096.0	1.8	63	1.4	259	9.0	9.0	B
1098.0	1.5	70	1.4	259	9.0	8.9	B
1100.0	0.3	350	1.4	258	9.0	8.9	D
1102.0	3.3	169	1.3	257	9.0	8.9	D
1104.0	4.6	170	1.3	256	9.0	8.9	A
1106.0	0.8	236	1.4	254	9.0	8.9	A
1108.0	1.5	212	1.4	254	8.9	8.9	A
1110.0			1.4	254	8.9	8.8	
1112.0	2.2	137	1.4	254	8.8	8.7	C
1114.0	0.2	138	1.4	253	8.7	8.7	A
1116.0	6.7	339	1.3	254	8.7	8.7	A
1118.0	4.5	343	1.3	254	8.6	8.6	A
1120.0	0.6	97	1.3	254	8.6	8.6	A
1122.0	1.0	72	1.3	254	8.6	8.6	C
1124.0			1.3	253	8.6	8.6	
1126.0	18.5	338	1.3	253	8.6	8.6	C
1128.0	8.7	345	1.3	253	8.6	8.6	A
1130.0	15.6	339	1.3	252	8.6	8.6	A
1132.0	14.9	338	1.3	252	8.6	8.7	A
1134.0	5.8	331	1.3	251	8.6	8.7	A
1136.0	1.7	25	1.3	250	8.6	8.7	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
1138.0	2.7	[illegible]	1.3	251	8.6	8.8	A
1140.0	3.5	33[illegible]	1.3	251	8.6	8.8	A
1142.0	3.9	30[illegible]	1.3	251	8.6	8.7	A
1144.0	6.1	30[illegible]	1.3	251	8.5	8.7	B
1146.0	1.0	16[illegible]	1.3	251	8.5	8.6	B
1148.0	3.5	13[illegible]	1.3	251	8.5	8.6	D
1150.0	1.6	10[illegible]	1.3	251	8.6	8.7	B
1152.0	8.0	33[illegible]	1.3	250	8.6	8.8	B
1154.0	6.4	[illegible]	1.3	250	8.6	8.8	D
1156.0	5.1	3[illegible]	1.3	251	8.7	8.8	D
1158.0	10.2	4[illegible]	1.2	251	8.6	8.8	D
1160.0	10.0	32[illegible]	1.2	251	8.6	8.7	B
1162.0			1.2	251	8.6	8.8	
1164.0			1.2	252	8.6	8.8	
1166.0	8.5	57	1.1	251	8.6	8.8	A
1168.0	8.8	4	1.0	251	8.6	8.8	A
1170.0	7.5	314	1.0	252	8.6	8.8	A
1172.0			1.0	252	8.6	8.8	
1174.0	3.4	12	1.0	252	8.6	8.7	A
1176.0	2.9	294	1.0	252	8.6	8.6	A
1178.0	3.9	298	1.0	252	8.6	8.6	A
1180.0	5.2	353	1.0	252	8.6	8.6	A
1182.0	5.0	360	1.0	251	8.6	8.6	A
1184.0	1.3	117	1.0	250	8.6	8.6	B
1186.0	2.3	123	1.0	250	8.6	8.6	D
1188.0	1.7	58	1.0	250	8.6	8.6	B
1190.0	7.2	179	1.0	251	8.6	8.6	D
1192.0	7.5	129	1.0	250	8.6	8.6	D
1194.0			1.0	250	8.7	8.7	
1196.0			1.0	249	8.7	8.7	
1198.0			1.0	249	8.7	8.7	
1200.0			1.0	249	8.7	8.7	
1202.0	2.0	67	1.0	249	8.7	8.8	B
1204.0	1.0	126	1.0	249	8.7	8.7	A
1206.0	0.9	113	1.0	249	8.7	8.7	A
1208.0	0.8	335	1.0	249	8.7	8.7	A
1210.0	1.4	308	1.0	247	8.7	8.7	A
1212.0	0.7	67	1.0	245	8.7	8.8	A
1214.0			1.0	241	8.8	8.8	
1216.0			1.0	238	8.8	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
1218.0			1.0	225	8.8	8.7	
1220.0	11.0	91	1.0	224	8.8	8.7	B
1222.0			1.0	227	8.8	8.7	
1224.0	5.9	278	1.0	225	8.7	8.7	B
1226.0			1.0	222	8.8	8.7	
1228.0	3.2	276	0.9	219	8.8	8.7	D
1230.0	4.0	3	0.9	217	8.8	8.7	D
1232.0	1.8	24	1.0	215	8.8	8.7	D
1234.0			1.0	213	8.7	8.6	
1236.0			1.0	212	8.7	8.6	
1238.0			1.0	211	8.6	8.5	
1240.0	1.9	261	1.0	211	8.6	8.5	D
1242.0	1.9	263	1.0	211	8.6	8.5	B
1244.0			1.0	211	8.6	8.6	
1246.0			1.0	211	8.6	8.6	
1248.0			1.0	211	8.6	8.6	
1250.0			1.0	211	8.6	8.6	
1252.0	1.3	1	1.0	211	8.6	8.6	D
1254.0			1.0	210	8.7	8.7	
1256.0			1.0	209	8.8	8.7	
1258.0			1.0	207	8.8	8.7	
1260.0			1.0	206	8.7	8.7	
1262.0			1.0	207	8.6	8.7	
1264.0	1[illegible].1	230	1.0	208	8.6	8.7	C
1266.0	1[illegible].7	17	1.0	209	8.6	8.6	A
1268.0	1.0	350	1.0	210	8.6	8.7	A
1270.0	1[illegible]	313	1.0	211	8.7	8.8	A
1272.0	4.[illegible]	285	1.0	213	8.8	8.9	A
1274.0	4.2	281	1.0	215	8.9	9.0	A
1276.0	1.4	137	1.0	218	9.0	9.1	A
1278.0	2.[illegible]	148	1.0	222	9.1	9.2	C
1280.0			1.0	226	9.2	9.3	
1282.0	19.5	65	1.0	230	9.4	9.4	A
1284.0	19.7	63	1.0	231	9.4	9.4	A
1286.0	20.9	63	1.0	232	9.5	9.5	A
1288.0	22.0	63	1.0	233	9.5	9.5	A
1290.0	20.2	58	1.0	233	9.4	9.4	A
1292.0	1.9	118	1.0	233	9.4	9.4	C
1294.0	0.6	88	1.0	233	9.4	9.4	A
1296.0	0.2	212	1.0	233	9.4	9.4	A

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZIM.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =A
1298.0	1.9	192	1.0	234	9.4	9.4	A
1300.0	3.8	175	1.0	234	9.4	9.4	A
1302.0	4.0	127	1.0	234	9.5	9.4	A
1304.0	7.2	110	1.0	234	9.5	9.5	A
1306.0			1.0	233	9.6	9.5	
1308.0	9.6	105	1.0	233	9.6	9.5	C
1310.0	7.4	81	1.0	233	9.5	9.5	A
1312.0	6.5	96	1.0	233	9.5	9.4	A
1314.0	2.2	351	0.9	234	9.4	9.4	A
1316.0	2.2	161	0.9	234	9.4	9.3	A
1318.0	3.0	136	0.9	235	9.3	9.2	A
1320.0	1.0	121	0.9	236	9.2	9.1	A
1322.0	18.0	158	0.9	237	9.2	9.1	D
1324.0	19.7	157	0.8	237	9.2	9.1	B
1326.0	16.5	170	0.7	238	9.1	9.1	B
1328.0	16.4	132	0.7	238	9.1	9.0	A
1330.0	17.5	120	0.7	240	9.1	8.9	A
1332.0	16.9	116	0.7	243	9.1	8.9	A
1334.0	18.5	111	0.7	244	9.1	9.0	A
1336.0	[illegible].1	156	0.7	243	9.1	9.0	A
1338.0	3.8	169	0.8	241	9.1	8.9	A
1340.0	0.9	112	0.8	240	9.0	8.9	A
1342.0	0.9	71	0.8	238	9.0	8.9	A
1344.0	1.[illegible]	259	0.8	237	9.0	8.9	A
1346.0	1.1	255	0.8	237	8.9	8.8	A
1348.0	0.7	347	0.8	238	8.9	8.8	A
1350.0	4.5	18	0.7	239	8.8	8.7	A
1352.0	4.6	18	0.6	240	8.8	8.6	A
1354.0	5.3	12	0.6	24[illegible]	8.9	8.7	C
1356.0	5.8	86	0.6	249	9.0	8.7	C
1358.0	5.1	127	0.6	25[illegible]	8.9	8.6	A
1360.0			0.6	251	8.9	8.6	
1362.0			0.6	250	9.0	8.6	
1364.0	23.8	325	0.6	250	9.0	8.6	D
1356.0	24.9	325	0.6	250	9.0	8.6	D
1368.0	24.9	322	0.6	249	9.0	8.7	D
1370.0			0.6	248	9.0	8.8	
1372.0			0.6	247	9.0	8.8	
1374.0	2.2	146	0.6	247	9.0	8.8	D
1376.0	2.4	137	0.6	247	8.9	8.7	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
1378.0	1.9	346	0.6	247	8.8	8.6	B
1380.0	0.4	339	0.6	246	8.8	8.6	A
1382.0	0.1	252	0.6	245	8.7	8.5	A
1384.0	0.7	341	0.7	245	8.7	8.6	A
1386.0	0.8	324	0.6	245	8.7	8.6	A
1388.0	0.8	310	0.6	245	8.7	8.6	A
1390.0	0.4	143	0.6	244	8.8	8.6	A
1392.0	1.3	346	0.6	244	8.8	8.7	A
1394.0	0.8	190	0.6	244	8.9	8.8	A
1396.0	1.4	132	0.6	243	9.0	8.9	A
1398.0	17.8	171	0.6	243	9.0	8.9	A
1400.0	19.3	164	0.7	244	9.1	9.0	A
1402.0	19.9	170	0.7	244	9.1	9.0	A
1404.0	18.6	167	0.6	245	9.1	8.9	A
1406.0	2.2	317	0.6	247	9.0	8.9	C
1408.0	13.9	329	0.6	247	9.0	8.9	B
1410.0	1.9	117	0.7	247	9.0	8.9	A
1412.0	3.1	107	0.7	247	9.0	8.8	A
1414.0	2.1	20	0.7	247	8.9	8.7	A
1416.0	1.5	125	0.7	247	8.9	8.7	A
1418.0			0.7	248	8.9	8.7	
1420.0	21.1	127	0.7	248	8.8	8.6	B
1422.0	14.2	129	0.7	248	8.9	8.7	B
1424.0	6.3	128	0.7	249	8.8	8.7	C
1426.0	3.7	332	0.7	249	8.9	8.7	A
1428.0	3.2	25	0.6	250	9.0	8.8	A
1430.0	1.6	34	0.6	251	9.0	8.9	A
1432.0	2.2	215	0.6	253	9.1	8.9	A
1434.0	2.0	225	0.6	255	9.1	9.0	A
1436.0			0.6	256	9.2	9.1	
1438.0	9.2	220	0.6	257	9.3	9.2	B
1440.0	5.4	235	0.6	257	9.3	9.2	D
1442.0	17.2	145	0.6	257	9.4	9.3	B
1444.0	19.5	146	0.7	257	9.4	9.3	B
1446.0	19.6	156	0.7	257	9.4	9.3	B
1448.0	4.0	98	0.7	257	9.4	9.3	D
1450.0	2.9	37	0.7	257	9.3	9.2	B
1452.0	7.6	75	0.7	258	9.3	9.2	B
1454.0	5.9	71	0.7	259	9.2	9.0	B
1456.0	4.4	76	0.7	262	9.0	8.9	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
1458.0	11.2	279	0.8	265	8.9	8.8	A
1460.0	11.8	267	0.8	267	8.9	8.8	A
1462.0	12.1	281	0.9	270	8.9	8.8	C
1464.0	12.2	273	0.9	274	8.8	8.7	A
1466.0	8.6	220	1.0	278	8.8	8.6	A
1468.0	8.8	215	1.0	276	8.7	8.6	A
1470.0	18.5	181	1.0	272	8.7	8.6	A
1472.0	16.1	199	1.0	268	8.7	8.6	A
1474.0	11.4	201	1.0	265	8.7	8.6	A
1476.0	11.3	204	1.0	265	8.7	8.6	A
1478.0	14.3	211	1.0	265	8.7	8.6	A
1480.0	17.2	210	1.0	265	8.6	8.5	A
1482.0	18.9	216	1.0	265	8.6	8.5	A
1484.0	17.4	212	1.0	265	8.5	8.4	A
1486.0	7.5	183	1.0	265	8.5	8.4	A
1488.0	7.7	96	1.0	265	8.5	8.4	A
1490.0	1.0	99	1.0	265	8.4	8.4	A
1492.0	2.5	114	1.0	265	8.4	8.3	A
1494.0	1.9	111	1.0	265	8.5	8.3	A
1496.0	1.6	95	0.9	265	8.5	8.4	A
1498.0	12.7	102	0.9	264	8.5	8.4	B
1500.0	7.5	350	1.0	263	8.5	8.4	A
1502.0	2.8	351	1.0	263	8.5	8.4	A
1504.0	2.6	346	1.0	263	8.6	8.5	A
1506.0	6.5	358	0.9	263	8.6	8.5	A
1508.0	5.9	343	0.9	262	8.6	8.5	A
1510.0	4.6	319	1.0	261	8.6	8.5	A
1512.0	3.0	6	1.0	258	8.5	8.4	A
1514.0	2.8	48	1.0	256	8.5	8.5	A
1516.0	3.3	51	1.0	256	8.6	8.5	A
1518.0	14.4	191	1.0	256	8.6	8.7	D
1520.0	1.0	336	1.0	256	8.6	8.5	A
1522.0	5.4	105	1.0	259	8.6	8.5	C
1524.0	17.5	168	1.0	264	8.5	8.4	B
1526.0	21.4	171	0.9	265	8.4	8.3	B
1528.0	3.8	159	0.9	263	8.3	8.2	A
1530.0	4.0	121	0.9	259	8.2	8.2	A
1532.0	2.6	118	0.9	257	8.2	8.1	C
1534.0	3.5	44	0.9	255	8.2	8.1	A
1536.0	12.8	69	0.8	254	8.1	8.1	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
1538.0	14.1	65	0.8	254	8.1	8.0	A
1540.0	3.6	73	0.7	254	8.1	8.0	A
1542.0	5.4	31	0.7	255	8.0	8.0	A
1544.0	3.5	26	0.7	257	8.0	8.0	A
1546.0	2.9	16	0.7	263	8.1	8.1	A
1548.0	1.8	5	0.7	267	8.1	8.0	A
1550.0	3.8	319	0.7	268	8.1	8.0	A
1552.0	4.9	313	0.7	268	8.1	7.9	B
1554.0	8.5	123	0.7	267	8.1	7.9	D
1556.0	8.9	63	0.6	268	8.2	8.1	D
1558.0	2.8	25	0.6	274	8.3	8.2	D
1560.0	2.0	327	0.5	277	8.2	8.1	B
1562.0	2.5	333	0.5	278	8.1	8.1	B
1564.0	2.2	21	0.4	278	8.0	8.0	B
1566.0	15.0	137	0.4	277	8.0	7.9	D
1568.0			0.4	277	8.0	7.9	
1570.0	9.3	125	0.4	277	8.0	7.9	B
1572.0	6.5	123	0.4	277	8.0	7.9	D
1574.0	2.4	126	0.4	277	8.0	7.9	B
1576.0			0.4	276	8.0	7.9	
1578.0	1.6	89	0.4	277	8.0	7.9	B
1580.0	3.5	58	0.4	282	8.0	7.9	B
1582.0	0.2	245	0.5	294	8.0	7.9	D
1584.0			0.6	295	8.0	7.9	
1586.0	1.0	180	0.6	289	8.0	7.9	D
1588.0	11.7	66	0.6	291	8.0	7.9	D
1590.0			0.5	311	8.0	7.9	
1592.0	0.3	306	0.5	340	8.7	8.6	A
1594.0	0.6	164	0.6	339	14.4	14.4	A
1596.0	0.8	129	0.7	310	18.8	18.9	A
1598.0	0.3	171	0.8	288	14.5	16.2	C
1600.0	1.2	252	0.9	299	9.2	11.0	A
1602.0	1.2	271	0.8	315	7.3	7.6	A
1604.0	0.8	263	0.8	316	7.5	7.7	A
1606.0	1.7	273	0.7	314	7.9	7.8	A
1608.0	3.1	220	0.8	314	7.9	7.8	A
1610.0	0.2	160	0.8	315	7.9	7.9	A
1612.0	0.6	247	0.8	316	7.9	7.9	A
1614.0	2.4	275	0.7	318	7.9	7.9	A
1616.0	1.7	352	0.7	319	7.9	7.9	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
1618.0	2.2	36	0.7	320	7.9	7.9	A
1620.0	2.3	46	0.6	322	8.0	8.0	A
1622.0	2.1	29	0.6	322	8.0	8.0	A
1624.0			0.6	322	8.0	8.0	
1626.0			0.6	319	8.3	9.9	
1628.0	4.8	133	0.7	297	8.6	13.1	D
1630.0			0.7	277	8.5	15.0	
1632.0			0.8	283	8.7	12.5	
1634.0			0.8	288	8.7	8.9	
1636.0	1.1	304	0.8	288	8.3	8.4	B
1638.0	1.9	29	0.8	304	8.2	8.4	B
1640.0	4.9	42	0.8	316	8.5	10.1	B
1642.0	4.9	52	0.8	297	9.1	12.5	B
1644.0	7.2	68	0.9	281	8.9	10.7	D
1646.0	6.8	16	0.9	278	8.3	8.2	D
1648.0	4.7	31	0.9	278	8.2	8.2	D
1650.0			0.9	279	8.1	8.1	
1652.0	8.5	112	0.9	280	8.2	8.1	D
1654.0	4.5	20	0.9	282	8.3	8.2	D
1656.0			0.9	284	8.5	8.1	
1658.0	5.5	98	0.9	284	8.4	8.1	D
1660.0	5.2	62	0.9	283	8.2	8.1	B
1662.0	7.8	88	0.9	284	8.1	8.1	B
1664.0	6.0	86	0.9	286	8.1	8.1	B
1666.0	3.4	71	0.8	287	8.0	8.0	A
1668.0	2.4	35	0.7	288	8.0	8.0	A
1670.0	2.9	34	0.7	289	8.0	8.0	A
1672.0	6.2	29	0.7	290	7.9	8.0	A
1674.0	2.4	78	0.7	289	8.0	8.0	A
1676.0	8.3	97	0.7	286	8.0	8.1	A
1678.0	7.0	88	0.7	284	8.1	8.1	A
1680.0	6.6	86	0.7	283	8.1	8.1	A
1682.0	4.5	202	0.7	285	8.0	8.0	A
1684.0	6.8	181	0.7	292	8.0	8.0	C
1686.0	12.6	194	0.7	313	8.8	8.0	B
1688.0	8.9	265	0.6	326	9.8	8.8	D
1690.0	5.6	251	0.6	326	9.0	8.9	B
1692.0	6.7	254	0.6	324	8.2	8.3	B
1694.0	2.2	259	0.6	319	8.2	8.4	D
1696.0	7.2	243	0.6	314	8.2	8.4	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
1698.0			0.7	310	8.2	8.3	
1700.0	9.4	279	0.7	305	8.1	8.2	D
1702.0	6.3	360	0.7	299	8.0	8.1	D
1704.0	1.6	285	0.7	295	8.0	8.0	B
1706.0	1.5	6	0.7	291	8.0	8.1	A
1708.0	1.7	11	0.7	289	8.0	8.1	A
1710.0	11.6	182	0.7	289	8.0	8.1	B
1712.0	16.1	180	0.6	290	8.0	8.0	B
1714.0	5.6	309	0.6	290	7.9	8.0	A
1716.0	3.2	275	0.7	291	7.9	8.0	A
1718.0	4.2	48	0.7	294	7.9	8.0	A
1720.0	2.5	45	0.7	296	8.0	8.0	A
1722.0	1.2	50	0.7	294	8.0	8.0	A
1724.0	1.3	292	0.7	291	8.0	8.0	A
1726.0	6.3	246	0.7	287	7.9	8.0	B
1728.0	7.1	251	0.7	286	7.9	8.0	B
1730.0	4.7	250	0.7	293	7.9	7.9	B
1732.0	9.4	218	0.7	295	7.9	7.9	D
1734.0	7.9	184	0.8	285	8.0	8.0	D
1736.0			0.8	276	8.0	8.1	
1738.0			0.8	277	8.0	8.0	
1740.0			0.8	280	8.0	8.0	
1742.0			0.8	275	8.1	7.9	
1744.0			0.8	273	8.1	7.9	
1746.0	11.5	233	0.9	273	8.0	7.9	D
1748.0	8.4	213	0.9	273	8.0	8.0	B
1750.0			0.9	271	8.0	8.0	
1752.0	6.8	179	0.9	268	8.1	8.0	B
1754.0	5.1	200	0.8	266	8.1	7.9	D
1756.0			0.8	265	8.0	7.9	
1758.0			0.7	261	8.0	7.9	
1760.0			0.6	254	8.0	8.0	
1762.0			0.5	245	8.0	8.1	
1764.0			0.6	238	8.1	8.1	
1766.0			0.5	233	8.3	7.9	
1768.0			0.4	231	8.3	7.9	
1770.0	4.5	157	0.4	228	8.2	8.0	D
1772.0	3.1	336	0.3	223	8.1	8.0	D
1774.0			0.3	218	8.1	8.0	
1776.0	3.5	197	0.4	214	8.1	8.0	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
1778.0	4.7	4	0.4	211	8.1	7.9	B
1780.0	4.3	1	0.4	205	8.2	7.9	B
1782.0	5.6	358	0.5	198	8.3	8.0	B
1784.0	2.9	30	0.5	193	8.4	8.0	D
1786.0	1.1	121	0.6	189	8.4	7.9	D
1788.0	1.0	89	0.6	185	8.4	8.0	D
1790.0	4.0	4	0.6	180	8.2	8.0	B
1792.0	5.2	347	0.6	177	8.1	7.9	B
1794.0	17.3	263	0.6	176	8.1	7.9	D
1796.0	15.0	277	0.7	174	8.1	7.9	B
1798.0	13.3	275	0.7	171	8.2	7.9	B
1800.0	8.1	275	0.7	168	8.2	7.9	B
1802.0	2.8	20	0.7	163	8.2	7.9	B
1804.0	3.4	34	0.7	158	8.1	8.0	B
1806.0			0.7	153	8.1	8.1	
1808.0			0.7	149	8.1	8.1	
1810.0			0.8	146	8.0	8.1	
1812.0	11.2	176	0.8	145	8.1	8.2	D
1814.0	15.8	167	1.0	147	8.4	9.3	B
1816.0			1.1	149	8.3	9.5	
1818.0			1.1	149	8.1	8.2	
1820.0			1.1	149	8.0	8.0	
1822.0	10.7	299	1.1	147	8.0	8.0	B
1824.0	13.8	299	1.2	146	8.0	8.0	B
1826.0	2.9	317	1.2	145	8.0	8.0	A
1828.0	4.2	292	1.3	144	8.0	8.0	A
1830.0	1.9	292	1.3	142	8.0	8.1	A
1832.0	1.0	341	1.3	141	8.0	8.1	A
1834.0	1.9	298	1.3	141	8.0	8.1	A
1836.0	2.3	296	1.3	141	8.0	8.1	A
1838.0	2.8	287	1.4	141	7.9	8.0	A
1840.0	3.1	277	1.4	141	7.9	8.0	A
1842.0	3.3	289	1.4	138	7.9	8.0	A
1844.0	3.6	295	1.4	137	7.9	8.0	A
1846.0	3.8	275	1.5	136	7.9	8.0	A
1848.0	1.9	280	1.5	135	7.9	8.0	A
1850.0	0.9	332	1.5	131	7.9	7.9	A
1852.0	7.2	342	1.6	132	7.9	7.9	A
1854.0	6.0	303	1.6	136	7.9	7.9	A
1856.0	5.5	292	1.6	133	8.0	7.9	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
1858.0	14.4	305	1.6	132	7.9	8.0	A
1860.0	12.2	298	1.6	136	8.0	8.0	A
1862.0	17.7	358	1.7	137	8.1	8.0	C
1864.0	18.3	359	1.7	133	8.1	8.0	C
1866.0	8.8	307	1.8	133	8.0	8.0	A
1868.0	3.5	243	1.8	132	8.0	7.9	A
1870.0	6.8	248	1.9	131	8.0	7.9	A
1872.0	8.4	347	1.9	130	8.0	8.0	C
1874.0	0.3	106	1.9	128	8.0	8.0	A
1876.0	11.7	66	1.9	127	7.9	7.9	B
1878.0	5.1	337	1.8	128	7.9	7.9	A
1880.0	5.2	331	1.8	128	7.9	7.9	A
1882.0	2.5	301	1.7	127	7.9	7.9	A
1884.0	2.4	303	1.7	128	7.9	7.9	C
1886.0	9.0	270	1.7	125	7.9	7.9	A
1888.0	3.7	213	1.7	126	7.9	7.9	A
1890.0	2.8	279	1.7	128	7.9	7.9	A
1892.0	5.7	322	1.7	135	7.9	7.8	A
1894.0	2.6	27	1.7	138	7.9	7.9	A
1896.0	5.5	91	1.6	131	7.9	7.9	A
1898.0			1.7	130	7.8	7.9	
1900.0	1.5	232	1.7	133	7.8	7.9	A
1902.0	4.7	340	1.8	133	7.8	8.0	A
1904.0	5.8	61	1.9	123	7.9	7.9	C
1906.0	5.4	82	1.9	122	7.9	7.9	C
1908.0	8.6	238	1.9	131	7.9	7.9	A
1910.0	6.6	205	1.9	128	7.9	7.8	A
1912.0	2.7	208	1.8	128	7.9	7.7	A
1914.0	2.3	255	1.9	132	7.9	7.8	A
1916.0	2.8	320	1.9	130	7.9	7.9	A
1918.0	2.1	316	1.9	130	8.0	8.0	A
1920.0	1.7	67	1.9	131	8.0	8.0	A
1922.0			1.9	131	8.0	7.9	
1924.0			1.9	131	7.9	7.9	
1926.0	5.7	323	1.9	131	7.9	7.9	A
1928.0	6.3	359	1.9	131	7.9	7.9	A
1930.0	6.5	17	1.9	130	8.0	7.9	A
1932.0	3.3	79	1.9	128	8.0	7.9	A
1934.0	7.1	331	1.9	126	8.0	7.9	A
1936.0	2.9	156	1.9	125	8.0	7.9	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
1938.0	1.6	351	1.9	131	7.9	7.9	A
1940.0	3.0	348	1.9	136	7.9	7.9	C
1942.0	4.5	174	1.8	136	7.9	7.8	A
1944.0	3.5	142	1.7	135	7.8	7.5	A
1946.0	4.5	141	1.7	134	7.7	7.2	A
1948.0	3.7	134	1.7	135	7.7	7.2	A
1950.0	1.1	273	1.7	136	7.7	7.2	A
1952.0	1.9	238	1.7	136	7.7	7.2	A
1954.0	1.7	310	1.7	136	7.7	7.2	A
1956.0	2.7	303	1.8	136	7.7	7.2	A
1958.0	3.0	299	1.8	136	7.7	7.1	A
1960.0	2.7	302	1.8	137	7.7	7.1	A
1962.0	4.9	308	1.9	137	7.7	7.2	A
1964.0	5.5	302	1.9	136	7.7	7.2	A
1966.0	5.5	314	1.9	136	7.7	7.2	A
1968.0	3.9	312	1.9	137	7.7	7.2	A
1970.0	4.2	329	2.0	136	7.7	7.2	A
1972.0	2.0	339	2.0	136	7.7	7.1	A
1974.0	3.3	7	2.0	136	7.6	7.1	A
1976.0	2.6	337	2.0	136	7.7	7.1	A
1978.0	2.7	296	1.9	135	7.7	7.1	A
1980.0	2.9	351	1.9	135	7.7	7.1	A
1982.0	1.7	332	1.8	137	7.7	7.1	A
1984.0	2.1	276	1.8	137	7.7	7.1	A
1986.0	4.8	293	1.8	136	7.7	7.1	A
1988.0	3.5	296	1.9	135	7.7	7.2	A
1990.0	2.3	276	1.9	135	7.7	7.3	A
1992.0	0.3	231	1.9	135	7.7	7.3	A
1994.0	2.7	337	1.9	136	7.7	7.3	A
1996.0	4.7	292	1.9	136	7.7	7.3	A
1998.0	4.9	278	1.9	136	7.7	7.2	A
2000.0	2.4	276	1.9	136	7.7	7.2	A
2002.0	3.6	306	2.0	136	7.6	7.2	A
2004.0	2.5	295	2.0	136	7.7	7.4	A
2006.0	2.5	286	2.0	136	7.9	7.9	A
2008.0	2.6	289	2.0	136	7.9	7.9	A
2010.0	1.8	270	2.0	136	7.9	7.9	A
2012.0	3.2	335	2.0	136	7.9	7.9	C
2014.0	1.5	312	2.0	136	7.9	7.9	A
2016.0	0.9	314	2.1	135	7.9	7.9	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
2018.0	1.1	310	2.1	136	7.8	7.9	A
2020.0	1.5	296	2.1	136	7.8	7.8	A
2022.0	0.6	241	2.0	136	7.8	7.9	A
2024.0	2.5	108	2.0	136	7.9	7.9	C
2026.0	3.2	84	2.1	136	7.9	7.9	C
2028.0	0.8	251	2.1	136	7.9	7.9	A
2030.0	1.3	359	2.1	136	7.9	7.9	A
2032.0	3.0	6	2.1	136	7.9	7.9	A
2034.0	2.5	285	2.1	135	7.9	7.9	A
2036.0	2.8	297	2.1	135	7.9	7.9	A
2038.0	1.8	309	2.1	135	7.9	7.9	A
2040.0	2.0	310	2.1	134	7.9	7.9	A
2042.0	2.0	299	2.1	134	7.9	7.9	A
2044.0	2.5	297	2.2	134	7.9	7.9	A
2046.0	2.9	302	2.2	134	7.9	7.9	A
2048.0	2.6	281	2.2	134	7.9	7.9	A
2050.0	2.8	282	2.2	134	7.9	7.9	A
2052.0	3.7	285	2.2	134	7.9	7.9	A
2054.0	3.1	283	2.2	132	7.9	7.9	A
2056.0	1.3	312	2.2	132	8.0	7.8	A
2058.0	1.3	288	2.2	132	8.0	7.8	A
2060.0	1.3	272	2.2	131	7.9	7.8	A
2062.0	0.9	250	2.2	131	7.9	7.9	A
2064.0	0.8	175	2.2	130	7.9	7.9	A
2066.0	1.1	269	2.2	129	7.9	7.9	A
2068.0	1.2	268	2.2	130	7.9	7.8	A
2070.0	1.4	297	2.2	130	7.9	7.8	A
2072.0	2.0	292	2.2	129	7.9	7.9	A
2074.0	2.1	290	2.2	128	7.9	7.9	A
2076.0	2.1	286	2.2	128	7.9	7.9	A
2078.0	2.0	291	2.2	128	7.9	7.9	A
2080.0	1.6	300	2.2	128	7.9	7.9	A
2082.0	1.7	302	2.2	129	7.9	7.9	A
2084.0	1.6	322	2.2	129	7.9	7.9	A
2086.0	1.0	330	2.2	129	7.9	7.9	A
2088.0	1.2	279	2.2	129	7.9	8.0	A
2090.0	2.4	256	2.2	129	7.9	8.0	A
2092.0	2.7	266	2.2	129	7.9	8.0	A
2094.0	2.3	262	2.2	130	7.9	8.0	A
2096.0	1.4	249	2.2	131	7.9	8.0	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
2098.0	1.3	279	2.2	130	7.9	8.0	A
2100.0	0.9	284	2.2	130	7.9	8.0	A
2102.0	2.4	251	2.2	131	7.9	8.0	A
2104.0	2.2	309	2.2	130	7.9	8.0	A
2106.0	2.2	313	2.2	130	7.9	8.0	A
2108.0	2.2	259	2.2	129	7.9	8.0	A
2110.0	2.5	323	2.2	129	7.9	8.0	A
2112.0	4.7	296	2.2	129	8.0	8.0	C
2114.0	1.6	323	2.2	129	8.0	8.1	A
2116.0	1.0	312	2.2	129	8.0	8.1	A
2118.0	2.1	296	2.2	129	8.0	8.1	A
2120.0	2.7	299	2.2	129	8.1	8.1	A
2122.0	3.3	306	2.2	129	8.0	8.0	A
2124.0	2.0	280	2.2	129	8.0	8.1	A
2126.0	1.3	311	2.2	129	8.0	8.0	A
2128.0	1.6	305	2.2	129	8.0	8.0	A
2130.0	1.9	273	2.2	128	8.0	8.0	A
2132.0	1.3	288	2.2	128	8.0	8.0	A
2134.0	1.2	295	2.2	128	8.0	7.9	A
2136.0	1.7	269	2.2	128	8.1	7.9	A
2138.0	1.6	288	2.2	128	8.1	8.0	A
2140.0	1.6	276	2.2	128	8.2	8.1	A
2142.0	1.8	283	2.2	128	8.2	8.1	A
2144.0	1.9	302	2.2	127	8.1	8.1	A
2146.0	2.4	275	2.3	127	8.1	8.1	A
2148.0	2.2	286	2.2	126	8.1	8.1	A
2150.0	1.7	281	2.2	126	8.1	8.0	A
2152.0	1.0	284	2.2	126	8.1	8.0	A
2154.0	1.1	286	2.3	126	8.0	8.0	A
2156.0	1.5	252	2.3	126	8.0	8.0	A
2158.0	3.6	279	2.3	126	8.0	8.0	A
2160.0	2.6	328	2.3	127	7.8	8.0	A
2162.0	2.5	313	2.3	129	7.7	8.0	A
2164.0	2.7	263	2.2	129	7.8	8.1	A
2166.0	2.6	259	2.3	127	7.8	8.1	A
2168.0	0.9	288	2.3	127	7.8	8.1	A
2170.0	1.3	36	2.3	126	7.7	8.1	A
2172.0	1.1	313	2.3	126	7.7	8.1	A
2174.0	0.9	254	2.3	126	7.7	8.1	A
2176.0	3.3	303	2.4	126	7.8	8.1	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
2178.0	9.0	281	2.4	126	7.8	8.1	B
2180.0	9.8	272	2.4	126	7.7	8.1	B
2182.0	9.5	282	2.5	126	7.7	8.2	D
2184.0	9.1	292	2.5	125	7.7	8.2	D
2186.0			2.5	124	7.9	8.2	
2188.0	4.0	296	2.5	123	8.1	8.2	A
2190.0	3.7	292	2.5	123	8.1	8.3	A
2192.0	3.0	284	2.5	123	8.1	8.3	A
2194.0	4.4	291	2.5	124	8.2	8.3	A
2196.0	3.4	281	2.5	124	8.2	8.3	A
2198.0	1.8	290	2.5	124	8.2	8.3	A
2200.0	1.6	360	2.5	124	8.1	8.3	A
2202.0	1.9	356	2.5	124	8.1	8.3	A
2204.0	2.9	277	2.5	124	8.2	8.3	A
2206.0	2.8	284	2.6	124	8.2	8.3	A
2208.0	1.7	288	2.6	124	8.2	8.3	A
2210.0	1.2	285	2.6	124	8.1	8.3	A
2212.0	1.6	296	2.6	124	8.1	8.2	A
2214.0	2.6	296	2.6	124	8.1	8.2	A
2216.0	2.7	295	2.6	125	8.1	8.2	A
2218.0	1.9	298	2.6	125	8.1	8.3	A
2220.0	1.6	285	2.6	125	8.1	8.3	A
2222.0	2.5	285	2.6	125	8.2	8.4	A
2224.0	5.8	281	2.6	125	8.2	8.4	A
2226.0	4.7	314	2.6	125	8.2	8.4	A
2228.0	1.3	261	2.6	125	8.2	8.4	A
2230.0	1.0	275	2.6	125	8.2	8.3	A
2232.0	2.2	265	2.6	125	8.1	8.3	A
2234.0	1.0	173	2.6	125	8.1	8.3	C
2236.0	4.6	143	2.6	124	8.1	8.3	C
2238.0	4.4	267	2.6	123	8.2	8.4	A
2240.0	1.7	260	2.6	123	8.2	8.4	A
2242.0	1.6	284	2.6	123	8.2	8.4	A
2244.0	2.0	279	2.6	123	8.2	8.4	A
2246.0	2.0	270	2.6	123	8.2	8.4	A
2248.0	1.8	269	2.6	123	8.3	8.4	A
2250.0	1.1	310	2.6	123	8.3	8.5	A
2252.0	1.4	327	2.6	122	8.4	8.5	A
2254.0	3.3	286	2.6	122	8.4	8.4	A
2256.0	2.2	246	2.6	122	8.3	8.4	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
2258.0	1.5	249	2.6	122	8.3	8.4	A
2260.0	1.4	252	2.6	122	8.2	8.4	A
2262.0	1.4	266	2.6	123	8.2	8.4	A
2264.0	1.7	278	2.6	123	8.2	8.4	A
2266.0	1.9	280	2.6	123	8.2	8.4	A
2268.0	1.8	282	2.6	123	8.2	8.4	A
2270.0	2.2	322	2.6	123	8.2	8.4	A
2272.0	1.8	314	2.6	123	8.2	8.3	A
2274.0	1.8	329	2.6	123	8.2	8.3	A
2276.0	2.2	352	2.6	123	8.2	8.3	A
2278.0	2.9	302	2.6	123	8.1	8.3	A
2280.0	2.7	292	2.6	123	8.2	8.3	A
2282.0	2.1	267	2.6	123	8.2	8.3	A
2284.0	3.8	249	2.6	123	8.2	8.3	A
2286.0	4.4	260	2.6	123	8.1	8.3	A
2288.0	17.6	74	2.6	123	8.1	8.3	A
2290.0	1.8	300	2.6	123	8.1	8.3	A
2292.0	2.0	245	2.6	122	8.1	8.3	A
2294.0	1.7	255	2.6	122	8.1	8.3	A
2296.0	1.3	280	2.6	122	8.2	8.3	A
2298.0	1.2	287	2.6	122	8.2	8.3	A
2300.0	1.5	266	2.6	123	8.2	8.3	A
2302.0	2.5	282	2.6	123	8.2	8.3	A
2304.0	2.8	289	2.6	122	8.2	8.3	A
2306.0	0.4	230	2.6	122	8.2	8.3	A
2308.0	2.0	249	2.6	123	8.2	8.3	A
2310.0	1.9	268	2.6	123	8.2	8.3	A
2312.0	2.0	274	2.6	123	8.2	8.3	A
2314.0	3.4	264	2.5	123	8.1	8.3	A
2316.0	3.8	264	2.6	124	8.1	8.2	A
2318.0	3.0	295	2.6	124	8.2	8.2	A
2320.0	2.6	290	2.6	125	8.2	8.2	A
2322.0	3.2	292	2.6	125	8.1	8.1	A
2324.0	3.2	295	2.6	125	8.1	8.2	A
2326.0	4.7	298	2.6	126	8.1	8.2	A
2328.0	4.2	301	2.6	126	8.1	8.2	A
2330.0	2.8	325	2.6	126	8.2	8.2	A
2332.0	2.6	335	2.6	126	8.2	8.2	A
2334.0	2.4	312	2.5	126	8.2	8.2	A
2336.0	2.8	304	2.5	126	8.1	8.2	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
2338.0	2.5	284	2.5	126	8.1	8.2	A
2340.0	2.4	286	2.6	126	8.1	8.2	A
2342.0	1.8	257	2.6	126	8.2	8.2	A
2344.0	2.0	230	2.6	126	8.2	8.2	A
2346.0	3.0	221	2.6	127	8.1	8.2	A
2348.0	3.1	255	2.6	126	8.1	8.2	A
2350.0	2.0	287	2.6	126	8.1	8.2	A
2352.0	1.8	292	2.6	126	8.1	8.2	A
2354.0	2.0	283	2.6	126	8.1	8.2	A
2356.0	1.6	300	2.6	126	8.1	8.2	A
2358.0	1.5	288	2.6	126	8.1	8.3	A
2360.0	2.3	287	2.6	126	8.1	8.3	A
2362.0	2.3	296	2.6	126	8.1	8.3	A
2364.0	2.2	303	2.6	126	8.1	8.3	A
2366.0	2.5	303	2.6	126	8.1	8.3	A
2368.0	1.9	325	2.6	126	8.2	8.3	A
2370.0	2.5	299	2.6	126	8.2	8.3	A
2372.0	2.6	287	2.6	126	8.2	8.3	A
2374.0	2.5	311	2.6	126	8.2	8.3	A
2376.0	2.8	317	2.6	126	8.2	8.3	A
2378.0	2.5	313	2.6	126	8.2	8.3	A
2380.0	2.6	306	2.6	127	8.2	8.3	A
2382.0	2.6	309	2.7	126	8.2	8.3	A
2384.0	2.5	303	2.7	126	8.2	8.3	A
2386.0	2.3	327	2.7	127	8.3	8.3	A
2388.0	2.4	333	2.7	127	8.3	8.3	A
2390.0	2.9	316	2.8	126	8.2	8.3	A
2392.0	2.9	316	2.8	126	8.2	8.2	A
2394.0	2.3	318	2.9	126	8.2	8.2	A
2396.0	3.2	311	2.9	126	8.2	8.2	A
2398.0	3.4	310	2.9	126	8.2	8.2	A
2400.0	2.9	309	2.8	126	8.2	8.2	A
2402.0	2.8	304	2.8	126	8.2	8.1	A
2404.0	2.5	289	2.8	126	8.1	8.1	A
2406.0	2.2	245	2.8	126	8.1	8.1	A
2408.0	3.5	325	2.8	126	8.1	8.1	A
2410.0	5.4	318	2.8	126	8.1	8.1	A
2412.0			2.8	126	8.1	8.1	
2414.0			2.9	126	8.2	8.1	
2416.0	3.4	63	2.9	126	8.2	8.2	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
2418.0	2.1	337	2.9	126	8.1	8.2	A
2420.0	1.8	286	2.9	126	8.1	8.2	A
2422.0	4.2	205	2.9	126	8.1	8.2	A
2424.0	3.2	91	2.9	126	8.1	8.1	A
2426.0	3.4	84	2.9	126	8.1	8.1	A
2428.0	5.8	170	2.9	126	8.1	8.1	A
2430.0	3.0	177	2.9	126	8.1	8.1	A
2432.0	2.1	182	2.9	126	8.1	8.1	A
2434.0	4.1	304	2.9	126	8.1	8.1	A
2436.0	1.7	199	2.9	126	8.1	8.1	A
2438.0	1.8	143	2.9	126	8.1	8.1	D
2440.0	8.8	202	2.9	125	8.1	8.1	D
2442.0	13.5	187	2.9	126	8.1	8.1	D
2444.0	3.8	52	2.9	126	8.1	8.1	B
2446.0	16.1	185	2.9	126	8.1	8.1	B
2448.0	17.3	185	2.9	126	8.1	8.1	B
2450.0			2.9	126	8.1	8.1	
2452.0	22.1	178	2.9	125	8.1	8.1	D
2454.0	20.8	188	2.9	125	8.1	8.1	D
2456.0	20.8	182	2.9	125	8.1	8.0	D
2458.0			2.9	126	8.0	8.0	
2460.0	20.1	202	2.9	125	7.9	7.9	D
2462.0	16.5	218	2.9	125	7.9	8.0	D
2464.0	14.9	208	2.9	124	7.8	7.9	B
2466.0	15.4	205	2.9	123	7.7	7.8	B
2468.0			2.9	124	7.7	7.8	
2470.0			3.0	124	7.8	7.8	
2472.0			3.0	124	7.7	7.7	
2474.0	21.9	191	3.0	123	7.7	7.7	D
2476.0	28.4	169	3.0	123	7.8	7.7	B
2478.0	15.7	182	2.9	123	7.7	7.7	C
2480.0	15.0	189	2.9	123	7.7	7.8	C
2482.0	17.6	195	2.9	123	7.8	7.8	A
2484.0	11.9	198	2.9	123	7.7	7.6	A
2486.0			2.9	123	7.6	7.7	
2488.0			2.9	123	7.7	7.9	
2490.0	9.3	227	2.9	123	7.9	7.9	A
2492.0	4.9	264	2.9	123	7.8	7.6	A
2494.0	8.5	192	2.9	123	7.6	7.5	A
2496.0	12.6	189	2.9	123	7.6	7.6	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
2498.0	5.1	220	2.9	123	7.6	7.7	A
2500.0	4.8	240	2.9	123	7.6	7.6	A
2502.0	1.8	241	2.9	123	7.6	7.7	A
2504.0	0.3	178	2.9	122	7.6	7.7	A
2506.0	22.2	186	2.9	121	7.6	7.7	A
2508.0	23.4	198	2.9	120	7.6	7.7	A
2510.0	22.1	192	2.9	120	7.6	7.7	A
2512.0	21.8	196	2.9	120	7.6	7.7	A
2514.0			2.9	120	7.7	7.7	
2516.0	19.4	191	2.9	120	7.7	7.7	A
2518.0	16.9	197	2.9	120	7.7	7.6	A
2520.0	8.4	207	2.9	119	7.6	7.6	A
2522.0	28.8	191	2.9	118	7.6	7.7	A
2524.0	20.2	193	2.9	118	7.6	7.7	A
2526.0	11.6	211	2.9	118	7.6	7.8	A
2528.0	9.8	202	2.9	118	7.6	7.8	A
2530.0	5.9	211	2.9	118	7.6	7.7	A
2532.0	5.0	212	2.9	118	7.6	7.6	A
2534.0	11.7	191	2.9	118	7.7	7.6	A
2536.0	5.4	188	2.9	118	7.7	7.5	A
2538.0	11.7	189	2.9	118	7.6	7.6	A
2540.0	16.0	191	2.9	118	7.6	7.7	C
2542.0	18.9	193	2.9	118	7.6	7.6	A
2544.0	4.9	195	2.9	118	7.6	7.5	A
2546.0	4.8	195	2.9	118	7.6	7.6	A
2548.0	17.9	185	2.9	118	7.6	7.6	A
2550.0	17.9	191	2.9	118	7.6	7.6	A
2552.0	10.3	199	2.9	118	7.6	7.6	A
2554.0	1.5	216	2.9	118	7.6	7.6	A
2556.0	19.8	165	2.9	118	7.6	7.6	A
2558.0	23.8	164	2.9	118	7.6	7.6	A
2560.0	23.0	166	2.9	118	7.6	7.6	A
2562.0	21.6	172	2.8	118	7.6	7.6	A
2564.0	21.7	170	2.8	118	7.6	7.6	A
2566.0	23.3	168	2.8	118	7.5	7.6	A
2568.0	25.4	165	2.8	118	7.5	7.6	A
2570.0	26.0	165	2.8	118	7.5	7.6	A
2572.0	29.3	162	2.8	118	7.5	7.5	A
2574.0			2.8	118	7.5	7.5	
2576.0			2.7	117	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
2578.0			2.6	116	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
2360.0	2.7	278	2.9	119	8.2	8.2	A
2362.0	2.6	287	2.9	119	8.2	8.2	A
2364.0	2.1	298	2.9	119	8.1	8.2	A
2366.0	2.7	302	2.9	120	8.1	8.2	A
2368.0	1.9	310	2.9	121	8.1	8.2	A
2370.0	2.6	293	2.9	121	8.1	8.2	A
2372.0	2.9	287	2.9	122	8.1	8.2	A
2374.0	2.5	308	2.8	123	8.1	8.2	A
2376.0	3.1	316	2.8	123	8.1	8.2	A
2378.0	2.9	304	2.8	123	8.0	8.2	A
2380.0	3.0	301	2.9	123	8.0	8.1	A
2382.0	3.1	298	2.9	123	8.0	8.1	A
2384.0	3.1	286	2.9	123	8.0	8.2	A
2386.0	2.4	306	2.9	123	8.0	8.2	A
2388.0	2.4	314	2.9	124	8.0	8.3	A
2390.0	3.4	316	2.9	125	8.0	8.2	A
2392.0	3.2	317	2.9	126	8.0	8.2	A
2394.0	2.4	309	2.9	126	8.0	8.2	A
2396.0	3.6	303	2.9	126	8.0	8.2	A
2398.0	3.3	312	2.9	127	8.0	8.2	A
2400.0	3.1	313	2.9	127	8.0	8.2	A
2402.0	3.0	310	2.9	127	7.9	8.1	A
2404.0	2.9	298	2.8	127	7.9	8.1	A
2406.0	2.2	251	2.8	127	7.9	8.1	A
2408.0	2.5	320	2.8	126	7.9	8.1	A
2410.0	5.1	331	2.9	126	7.9	8.1	A
2412.0	6.9	345	2.9	126	7.9	8.1	C
2414.0	5.4	1	2.8	126	8.0	8.1	C
2416.0	2.4	34	2.9	126	8.0	8.1	A
2418.0	2.5	314	2.9	126	7.9	8.0	A
2420.0	4.9	239	2.9	126	7.9	8.0	A
2422.0	5.9	224	2.9	126	7.8	8.1	A
2424.0	2.3	61	2.9	126	7.8	8.1	A
2426.0	1.6	80	2.9	126	7.8	8.1	A
2428.0	5.4	172	2.9	125	7.8	8.1	C
2430.0	4.5	183	2.9	125	7.8	8.2	A
2432.0	3.2	197	2.9	125	7.8	8.1	A
2434.0	1.7	290	2.9	125	7.8	8.1	A
2436.0	1.1	245	2.9	125	7.9	8.1	A
2438.0	1.6	56	2.9	125	8.0	8.1	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
2440.0	7.0	203	2.9	125	8.1	8.1	C
2442.0	0.4	143	2.9	125	8.1	8.1	A
2444.0	2.7	98	2.9	126	8.1	8.1	A
2446.0	14.7	187	2.9	126	8.0	8.1	C
2448.0	16.5	185	2.9	126	7.8	8.1	B
2450.0			2.9	126	7.9	8.1	
2452.0			2.9	126	7.9	8.1	
2454.0	19.3	174	2.9	126	8.0	8.0	D
2456.0	18.9	173	2.9	126	8.0	8.0	D
2458.0	3.5	288	2.9	126	8.0	8.0	B
2460.0	3.7	280	2.9	126	7.9	7.9	B
2462.0	11.4	191	2.9	125	7.9	7.9	D
2464.0	12.7	200	3.0	124	7.8	7.8	B
2466.0	12.1	195	3.0	124	7.7	7.7	B
2468.0			3.0	124	7.7	7.8	
2470.0			3.0	123	7.8	7.8	
2472.0	20.0	179	3.0	124	7.8	7.7	D
2474.0	20.8	182	3.0	124	7.7	7.6	B
2476.0	19.9	180	3.0	123	7.7	7.5	D
2478.0			3.0	123	7.6	7.2	
2480.0	19.8	184	3.0	124	7.7	7.5	D
2482.0			3.0	125	7.7	7.7	
2484.0	21.7	206	2.9	125	7.6	7.6	D
2486.0			2.9	125	7.7	7.6	
2488.0	16.8	249	2.9	124	7.8	7.6	C
2490.0	9.0	216	2.9	124	7.8	7.4	A
2492.0	2.9	274	2.9	124	7.5	7.4	A
2494.0	6.9	196	2.9	125	7.5	7.6	A
2496.0	12.2	186	2.9	125	7.6	7.6	A
2498.0	4.6	226	2.9	125	7.6	7.6	C
2500.0	4.3	236	2.9	125	7.6	7.6	A
2502.0	1.8	227	2.9	124	7.7	7.6	A
2504.0	0.8	178	2.9	123	7.7	7.6	A
2506.0	19.7	192	2.9	123	7.7	7.6	A
2508.0	23.9	192	2.9	123	7.6	7.6	A
2510.0	23.3	191	2.9	123	7.6	7.7	A
2512.0	22.3	191	2.9	123	7.6	7.7	A
2514.0	14.7	193	2.9	123	7.5	7.7	A
2516.0	24.5	189	2.9	123	7.5	7.7	C
2518.0	8.0	203	2.9	123	7.5	7.6	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
2520.0	9.6	201	2.9	122	7.5	7.6	A
2522.0	11.1	198	2.9	120	7.5	7.6	A
2524.0	6.8	190	2.9	119	7.6	7.6	C
2526.0	8.9	185	2.9	119	7.7	7.6	A
2528.0	8.9	200	2.9	119	7.7	7.6	A
2530.0	7.3	205	2.9	119	7.6	7.6	A
2532.0	8.8	201	2.9	119	7.6	7.6	A
2534.0	11.1	197	2.9	119	7.5	7.5	A
2536.0	6.4	197	2.9	119	7.5	7.6	A
2538.0	14.9	178	2.9	118	7.5	7.5	A
2540.0	14.7	179	2.9	118	7.5	7.5	A
2542.0	5.0	240	2.9	117	7.5	7.6	A
2544.0	5.0	198	2.9	116	7.4	7.6	A
2546.0	5.3	199	2.9	117	7.5	7.6	A
2548.0	14.3	185	2.9	117	7.5	7.6	A
2550.0	14.9	189	2.9	116	7.4	7.5	A
2552.0	14.6	190	2.9	116	7.4	7.5	A
2554.0	2.9	261	2.9	116	7.4	7.6	C
2556.0	5.6	231	2.9	116	7.4	7.6	A
2558.0	19.1	165	2.9	116	7.5	7.6	C
2560.0	23.7	169	2.9	116	7.5	7.6	A
2562.0	19.6	167	2.9	116	7.5	7.6	A
2564.0	14.6	157	2.9	116	7.5	7.6	C
2566.0	22.0	169	2.9	116	7.5	7.5	A
2568.0	24.6	163	2.9	116	7.5	7.5	A
2570.0	25.4	165	2.9	117	7.5	7.5	A
2572.0	26.5	178	2.9	116	7.6	7.5	C
2574.0			2.8	116	7.5	7.4	
2576.0			2.8	117	7.4	7.4	
2578.0			2.8	119	7.2	7.3	

Schlumberger

UNION TEXAS PETRO. CORP. WILDCAT BUTTE UNIT #1-2 SUMMARY

DEPTH	DIP	DIP AZM	DEV	DEV AZM	DIAM 1-3	DIAM 2-4	QUAL
TOP 658.00	17.1	207.	1.9	204.	9.6	10.1	D
BOTTOM 2578.00	3.3	288.	2.6	116.	7.4	7.4	*
TOP 2360.00	2.7	278.	2.9	119.	8.2	8.2	A
BOTTOM 2578.00	85.5	219.	2.8	119.	7.2	7.3	*

Schlumberger

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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.: ML 29405 (State)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry Hole

7. UNIT AGREEMENT NAME: Wildcat Butte Unit

2. NAME OF OPERATOR: UNION TEXAS PETROLEUM CORPORATION

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: 14001 E Iliff Avenue, Suite 500, Aurora, Colorado 80014

9. WELL NO.: 1-2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2140' FSL & 605' FEL, Section 2, T26S-R13W

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 2, T26S-R13W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5239 GR

12. COUNTY OR PARISH: Emery

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*	X ✓	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

We propose to plug and abandon this well in the following manner:

1. Set 85 sx cement plug from plug back TD of 2509' to 1800' (top perforation 1906')
2. Set 25 sacks cement plug across Wingate (top 1152') from 1100' to 1300'.
3. Set 25 sacks cement plug from 200' to surface, weld cap and set marker.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8/8/83
BY: [illegible]

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

SIGNED [illegible] TITLE Area Operations Manager DATE 7/29/1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Union Texas Petroleum

14001 E Iliff Avenue
Suite 500
Aurora, Colorado 80014
(303) 695-8778

July 29, 1983

State of Utah
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

ATTN: Mr. Ron Firth, Chief Petroleum Engineer

Dear Ron:

Confirming our conversation this morning, I am enclosing notice of our intent to plug our Wildcat Butte #1-2.

I have attached a copy of our completion notice for your convenience.

We will notify you when this work is completed.

Sincerely,

UNION TEXAS PETROLEUM CORPORATION

J. B. Stewart
Area Operations Manager

JBS:dkc

RECEIVED
AUG 01 1983
DIVISION OF
OIL, GAS & MINING

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 Wildcat Butte Unit #1-2

Operator UNION TEXAS PETROLEUM CORP. *Address* 14001 East Iliff Avenue, Suite 500 Aurora, Colorado 80014

Contractor Gushco Drilling, Ltd. *Address* 529 Foy Dr, Grand Junction CO 81503

Location NE¼ SE¼ *Sec.* 2 *T.* 26S *R.* 13E *County* Emery

Water Sands

	Depth From	Depth To	Volume Flow Rate or Head	Quality Fresh or Salty
1.	500'	1285'	50 BWPH	Fresh
2.	1285'	2440'	150 BWPH	Fresh
3.	2440'	TD	400 BWPH	Fresh
4.				
5.				

(Continue of reverse side if necessary)

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 9-331
Dec. 1973

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 Dryhole
2. NAME OF OPERATOR: Union Texas Petroleum Corporation
3. ADDRESS OF OPERATOR: 14001 E Iliff Ave., Suite 500, Aurora, CO 80014
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
   AT SURFACE: 2140' FSL & 605' FEL
   AT TOP PROD. INTERVAL:
   AT TOTAL DEPTH: Same
5. LEASE: ML-29405 (State)
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME: Wildcat Butte
8. FARM OR LEASE NAME:
9. WELL NO.: 1-2
10. FIELD OR WILDCAT NAME: Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 2, T26S-R13E
12. COUNTY OR PARISH: Emery
13. STATE: Utah
14. API NO.:
15. ELEVATIONS (SHOW DF, KDB, AND WD): 5239' GL

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)		

(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.)*

1. Set 88 sx plug from plug back TD (2509') to 1758'.
2. Set 26 sx plug across Wingate (Top 1152') from 1086' to 1308'.
3. Set 26 sx plug from 220' to surface, weld cap and set dry hole marker.

*All plugs Class "G" cement set by balance method with 8.6# mud between.
The site is restored and ready for inspection.

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

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

SIGNED [signature] TITLE Area Operations Manager DATE November 8, 1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 10, 1984

Union Texas Petroleum Corporation
14001 E. Iliff Ave #500
Aurora CO 80014

RE: Well No. 1-2
API #43-015-30162
2140' FSL, 605' FEL NE/SE
Sec. 2, T. 26S, R. 13E.
Emery County, Utah

Gentlemen:

We received your "Well Completion Report and Log" dated July 19, 1983 on the above well stating that this well had been completed April 8, 1983. We also received a "Sundry Notice" of intent to abandon dated July 19, 1983. However, this office has not received the appropriate "Sundry Notice" of subsequent abandonment.

Rule D-2 of The Oil and Gas Conservation General Rules and Regulations and Rules and Practice and Procedure states:

> Within thirty (30) days after the plugging of any well has been accomplished, the owner or operator thereof shall file a plugging report with the Division. The report shall give a detailed account of the manner in which the plugging work was carried out, including the nature and quantities of materials used in plugging, and the location and extent (by depths) of the plugs of different materials; records of any tests or measurements made and the amount, size and location (by depths) of casing left in the well; and statement of the volume of mud fluid used. If an attempt was made to part any casing, a complete report of the method used and results obtained must be included.

Enclosed is the necessary Sundry Notice form for your convenience in fulfilling these requirements. Please submit the completed form to this office as soon as possible.

Thank you for your prompt attention to this matter.

Respectfully,

Claudia Jones

Claudia Jones
Well Records Specialist

CJ/cj

cc: Dianne R. Nielson, Director
Ronald J. Firth, Associate Director

Enclosure

an equal opportunity employer • please recycle paper

3

Union Texas Petroleum

14001 E Iliff Avenue
Suite 500
Aurora, Colorado 80014
(303) 695-8778

April 10, 1984

Division of Oil, Gas & Mining
State of Utah
4241 State Office Building
Salt Lake City, Utah 84114

Dear Gentlemen:

We are enclosing a copy of the Federal "Subsequent Report of Abandonment" for the Wildcat Butte #1-2 located in the NE 1/4, SE 1/4, Section 2, T26S-R13E, Emery County, Utah.

We apologize for being late in sending you this report. We were under the impression that the BLM was forwarding a copy to you.

If you require any further information, please contact us.

Yours very truly,

UNION TEXAS PETROLEUM CORPORATION

J. B. Stewart
Area Operations Manager

JBS:dkc