

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FILE WATER SANDS LOCATION INSPECTE

SUB. REPORT/abd

98D326 LA'D off 3/25/98:

DATE FILED **OCTOBER 23, 1995**

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. INDIAN #

DRILLING APPROVED: **APRIL 1, 1997** **14-20-603-353**

SPUDED IN:

COMPLETED: **3/23/98 LA** PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: **MARCH 23, 1998 LA'D**

FIELD: **GREATER ANETH**

UNIT:

COUNTY: **SAN JUAN**

WELL NO. **RATHERFORD 17-75**

API NO. **43-037-31769**

LOCATION **115 FNL** FT. FROM (N) (S) LINE. **2495 FEL** FT. FROM (E) (W) LINE. **NW NE** 1/4 - 1/4 SEC. **17**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
41S	24E	17	MOBIL E & P				

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPlicate
(Other instructions on
reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-353	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> HORIZONTAL SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO TRIBAL	
2. NAME OF OPERATOR Mobil Exploration & Producing U.S. Inc. as Agent for Mobil Producing TX & NM Incx.		7. UNIT AGREEMENT NAME RATHERFORD UNIT	
3. ADDRESS AND TELEPHONE NO. P.O. Box 633, Midland, TX 79702		8. FARM OR LEASE NAME, WELL NO. RATHERFORD 17-75	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 115' FNL, 2495' FEL At proposed prod. zone BHL 2500' FNL 70' FEL, SEC. 7		9. API WELL NO. NA	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 2 MILES SE OF MONTEZUMA CREEK, UT		10. FIELD AND POOL, OR WILDCAT GREATER ANETH	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 5200' FNL (Also to nearest drilg. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 17, T41S, R24E	
16. NO. OF ACRES IN LEASE 2161		12. COUNTY OR PARISH SAN JUAN	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40 ACRES		13. STATE UT	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 643' SE OF 17-31		20. ROTARY OR CABLE TOOLS ROTARY	
19. PROPOSED DEPTH VD-5490' MD-9276'		21. APPROX. DATE WORK WILL START* MARCH 1996	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) GL: 4664'			

23. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	80'	110 SX
12 1/4"	9 5/8"	36#	1800'	690 SX
8 3/4"	7"	23#	5700'	750 SX

SEE ATTACHED 8 POINT WELL CONTROL FOR ADDITIONAL DRILLING INFORMATION. THIS PRODUCTION AREA HAS H2S; THEREFORE MONITORING AND SAFETY EQUIPMENT ARE REQUIRED. SAFETY EQUIPMENT WILL BE RIGGED UP BY 3000'. FEDERAL REQUIREMENTS FOR EQUIPMENT ON THIS WELL ARE AS FOLLOWS:

- | | |
|--|--------------------------------|
| 1. FLARE LINE AND MEANS OF IGNITION | 8. MUD-GAS SEPARATOR |
| 2. REMOTE CONTROLLED CHOKE | 9. COMMUNICATION FROM WELLSITE |
| 3. ESCAPE BREATHING APPARATUS FOR ALL CREW MEMBERS | |
| 4. H2S SENSORS AND ASSOCIATED AUDIBLE/VISUAL ALARMS(S) | |
| 5. AT LEAST ONE (1) PORTABLE H2S MONITOR | |
| 6. WIND DIRECTION INDICATORS | |
| 7. CAUTION/DANGER SIGN(S) AND FLAG(S) | |
- APPROXIMATE H2S LEVELS FOR THE FOLLOWING ZONES:
ISMAY 80 PPM DESERT CREEK 60 PPM

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 Shirley Robertson TITLE ENV. & REG. TECHNICIAN DATE 10-20-95

(This space for Federal or State office use)

PERMIT NO. 43-037-31769 APPROVAL DATE _____

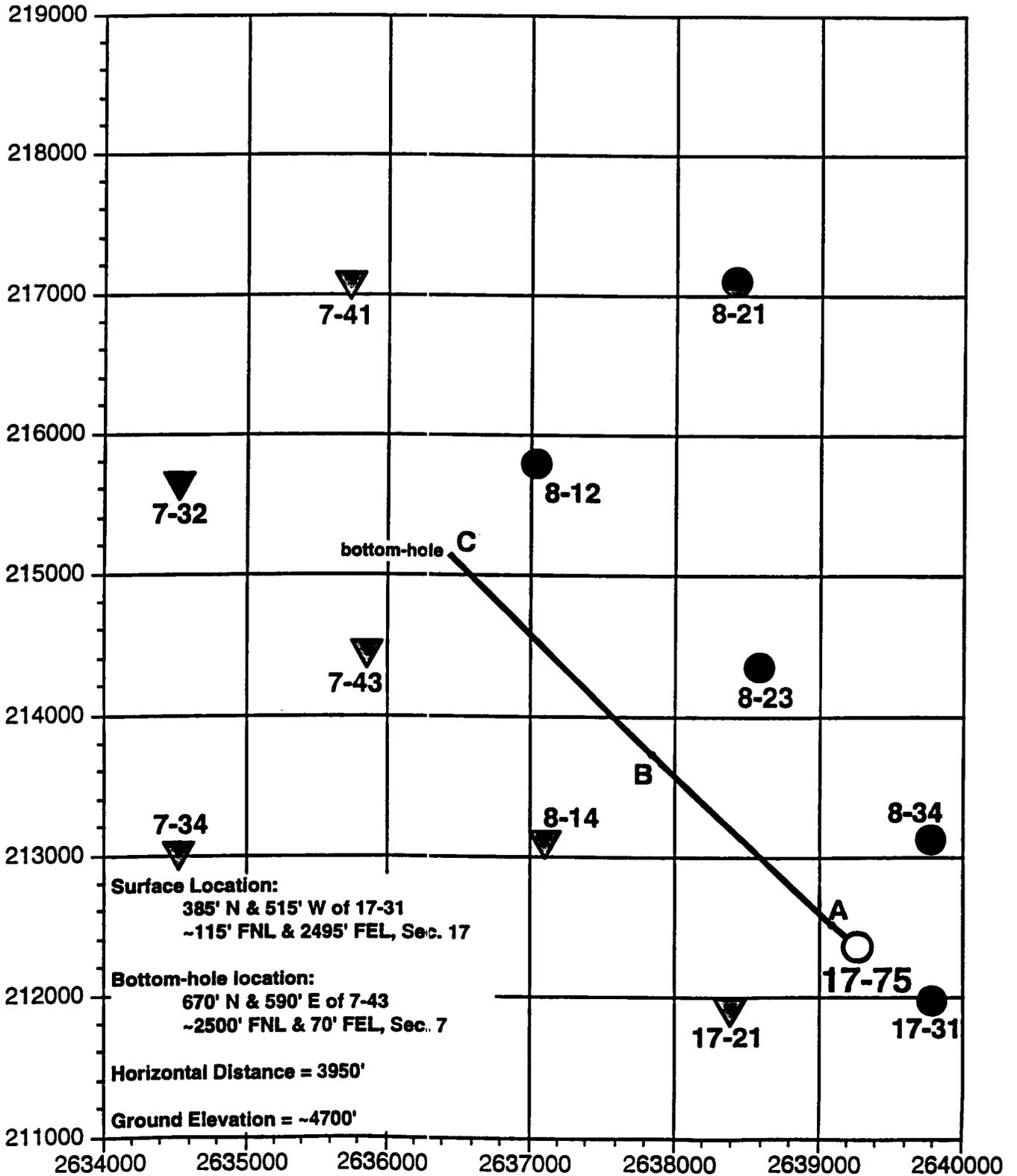
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY John R. Baya TITLE Petroleum Engineer DATE 4-1-97

*See Instructions On Reverse Side

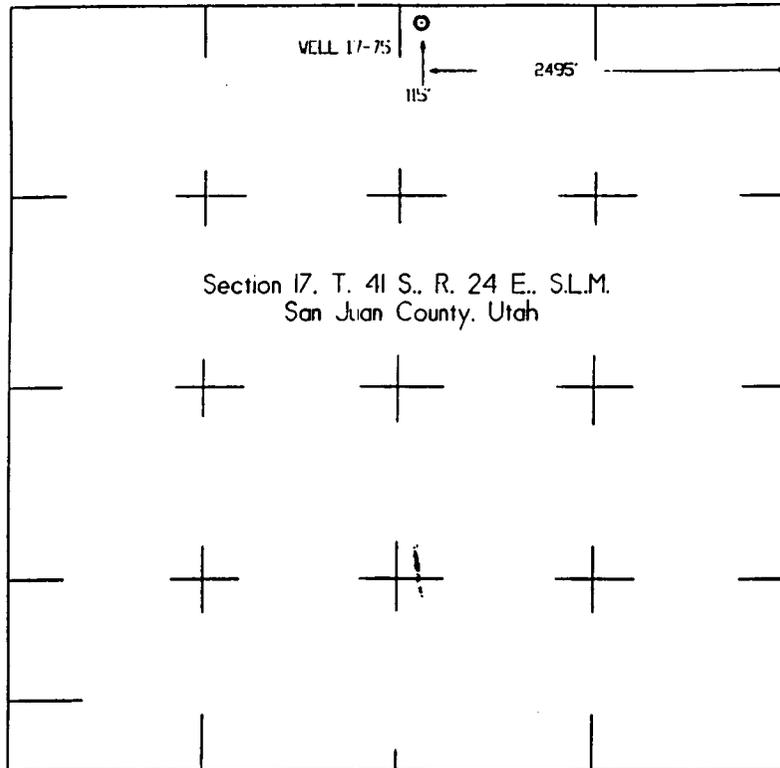
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Ratherford Unit 17-75 New Medium-radius Producer 1996 Horizontal Development Program



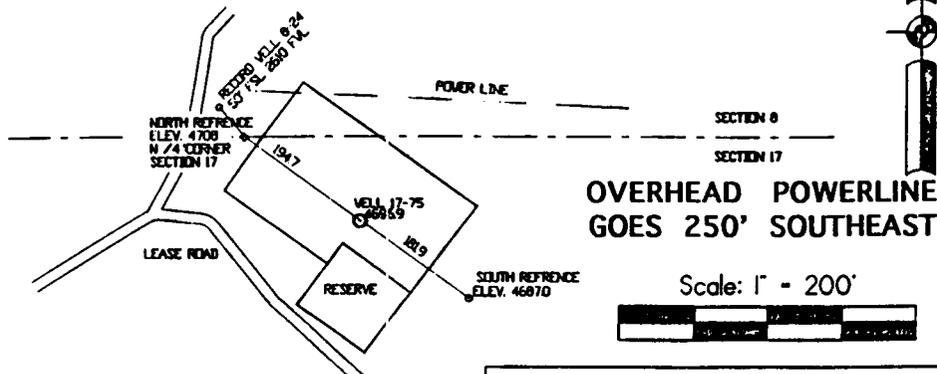
MOBIL OIL COMPANY
 WELL 17-75
 RATHERFORD UNIT, SECTION 17
 T. 41 S., R. 24 E., S.L.M., SAN JUAN COUNTY, UTAH
 JULY 14, 1995

MOBIL OIL COMPANY
 Well 17-75
 Ratherford Unit, NW/4 NE/4 Section 17



Scale: 1" = 1000'

**INJECTION PIPELINE GOES 250' NORTH
 SURFACE FLOWLINE GOES 2,450' NORTH**



**OVERHEAD POWERLINE
 GOES 250' SOUTHEAST**

Scale: 1" = 200'

State Plane Coordinates, Utah
 South Zone As derived from
 1989 USGS Map "White Mesa Village
 Utah" Northing-212360 Easting 2644700

MANESS & Associates Inc.
 REGISTERED LAND SURVEYORS

P.O. BOX 1183 - 150 NORTH WHELOW - CORTEZ, CO. 81321 - PHONE: 970/505-0018

Mobil Oil Corporation
 Rutherford Unit #17-75
 115' FNL and 2495' FEL
 Section 17, T-41-S, R-24-E
 San Juan County, Utah

Eight Point Drilling Program

1. **ESTIMATED FORMATION TOPS'**

<u>Formation Name</u>	<u>Depth from GL</u>	<u>Depth from KB</u>	<u>Subsea Depth</u>
Chinle	1409'	1421'	3288'
DeChelly SS	2610'	2623'	2087'
Hermosa LS	4500'	4513'	197'
Ismay LS	5320'	5333'	-623'
L. Ismay LS	5445'	5458'	-748'
Gothic Shale	5455'	5468'	-758'
Desert Creek I	5475'	5483'	-778'
Total Depth (TD)	5490'(9276' MD)	5503'	-793'

* All true vertical depths (TVD) based on ground level of 4697'.

2. **NOTABLE ZONES**

The estimated formation top depths from GL at which water, oil, gas, or other mineral bearing zones may be encountered are:

<u>Possible Water Zone</u>	<u>Possible Coal Zone</u>	<u>Possible Oil or Gas Zones</u>
DeChelly SS 2610'		Desert Creek I 5475' (TVD)

Propose to drill, complete, and equip an oil producer in the Desert Creek formation.

The well will be cased throughout its length and cemented to the surface, if possible.

3. **PRESSURE CONTROL** (See "5" on Page 3)

Examples of a typical BOP and choke manifold are on Page 4. Maximum anticipated surface pressure will be 2,000 psi.

Once out from under the surface casing, a minimum 11" 3,000 psi system will be used with two hydraulic rams (blind/pipe). The choke manifold will have a minimum 3,000 psi rating.

BOP's will be tested to their working pressure after nipping up and after any use under pressure. Pipe rams will be function tested daily. Blind rams will be function tested after each trip out of the hole. BOP tests will be recorded on IADC reports.

Upper and lower kelly valves, floor safety valve, and drill string inside BOP rated at a minimum 3,000 psi will be maintained on the floor at all times. Upper and lower kelly valves with handler available will be in use at all times. Back pressure and full opening drill string safety valves to fit all drill strings in use will be available on the rig floor at all times.

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 San Juan County, Utah

4. CASING & CEMENTING

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Conn.</u>	<u>Age</u>	<u>Setting Depth (GL)</u>
17-1/2"	13-3/8"	48#	H40	ST&C	New	0000' - 0080'
12-1/4"	9-5/8"	36#	J55	ST&C	New	0000' - 1600'
8-3/4"	7"	23#	K55	LT&C	New	0000' - 5100'
8-3/4"	7"	23#	L80	LT&C	New	5100' - ±5700'

Surface Casing (0' to 80'): Cement to surface with 110sx (131 ft³). Volume calculated with 100% excess. Class "B" + 2% CaCl₂ + 0.25 pps Flocele (Density = 15.61 ppg, Yield = 1.19 ft³/sx).

Intermediate Casing (0' to 1600'): Cement to surface with 690 sx (1027 ft³). Volume calculated with 100% excess. Lead with 410 sx (694 ft³) of 65:35 Class "B":Poz + 6% gel + 2% CaCl₂ + 0.25 #/sk Flocele (Density = 12.8 ppg, Yield = 1.73 ft³/sx). Tail with 280 sx (333 ft³) Class "B" + 2% CaCl₂ (Density = 15.61 ppg, Yield = 1.19 ft³/sx). Total of 11 centralizers and one stop collar. One on the shoe joint and one every fourth collar to 200' from surface. Actual cement volumes to be based on the OH caliper plus 30% excess.

Production Casing (0' to 5800'): Cement to surface with 1201 ft³ in two stages using stage tool. Volume calculated with 100% excess .

Stage 1: Lead with 230 sx (419 ft³) of class G + 6% gel + 0.25 pps Flocele + 5 #/sx gilsonite (Density = 12.54 ppg, Yield = 1.82 ft³/sx). Tail with 150 sx (173 ft³) of class G + 0.4% Halad-344 + 0.3% VERSASET (Density = 15.79ppg, Yield = 1.15 ft³/sx). Actual cement volumes to be based on the OH caliper plus 30% excess.

Stage 2: Lead with 270 sx (491 ft³) of class G + 6% gel + 0.25 pps Flocele + 5 #/sx gilsonite (Density = 12.54 ppg, Yield = 1.82 ft³/sx). Tail with 100 sx (118 ft³) of class G + 2% CaCl₂ (Density = 15.61 ppg, Yield = 1.19 ft³/sx)

Total of 38 centralizers and 1 stop collar. One centralizer on the float shoe then every fourth collar.

5. MUD PROGRAM

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0000' - 1600'	FW/Spud Mud	8.8-9.2	45-50	NC
1600' - 5708'	FW/PHPA	9.3-9.8	36 - 48	NC
5708' - TD	FW/XCD	8.7-8.9	30-32	10 - 15

Mobil Oil Corporation
Ratherford Unit #17-75
115' FNL and 2495' FEL
Section 17, T-41-S, R-24-E
San Juan County, Utah

6. CORING, TESTING, AND LOGGING

No cores are currently planned. Neutron, Dual Induction, and Sonic logs may be run. A few RFT tests may also be run.

7. DOWNHOLE CONDITIONS

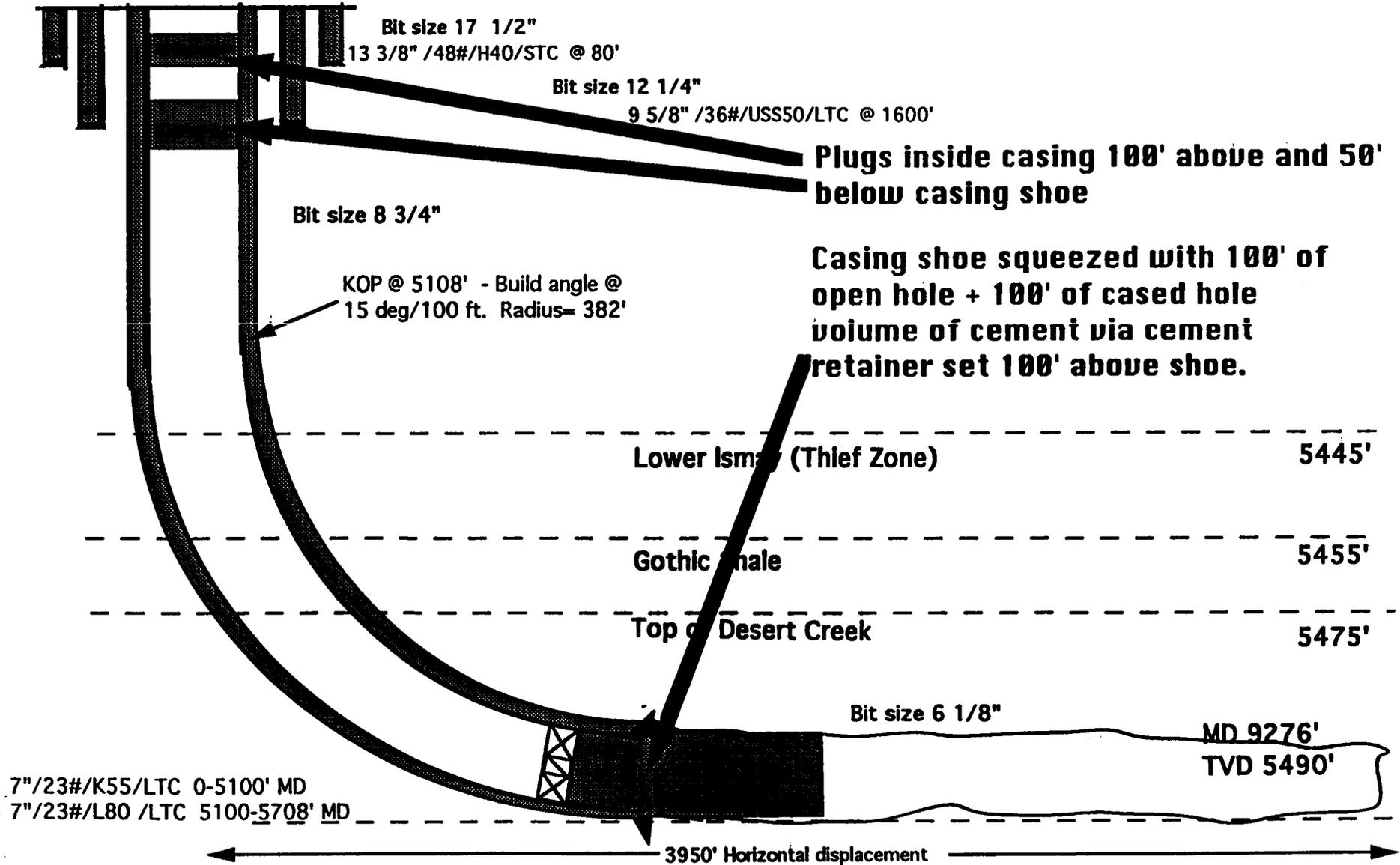
Possible water flows in the DeChally formation may be encountered.

8. MISCELLANEOUS

It is expected to take +/- 30 days to drill the well and 10 days to complete the well.

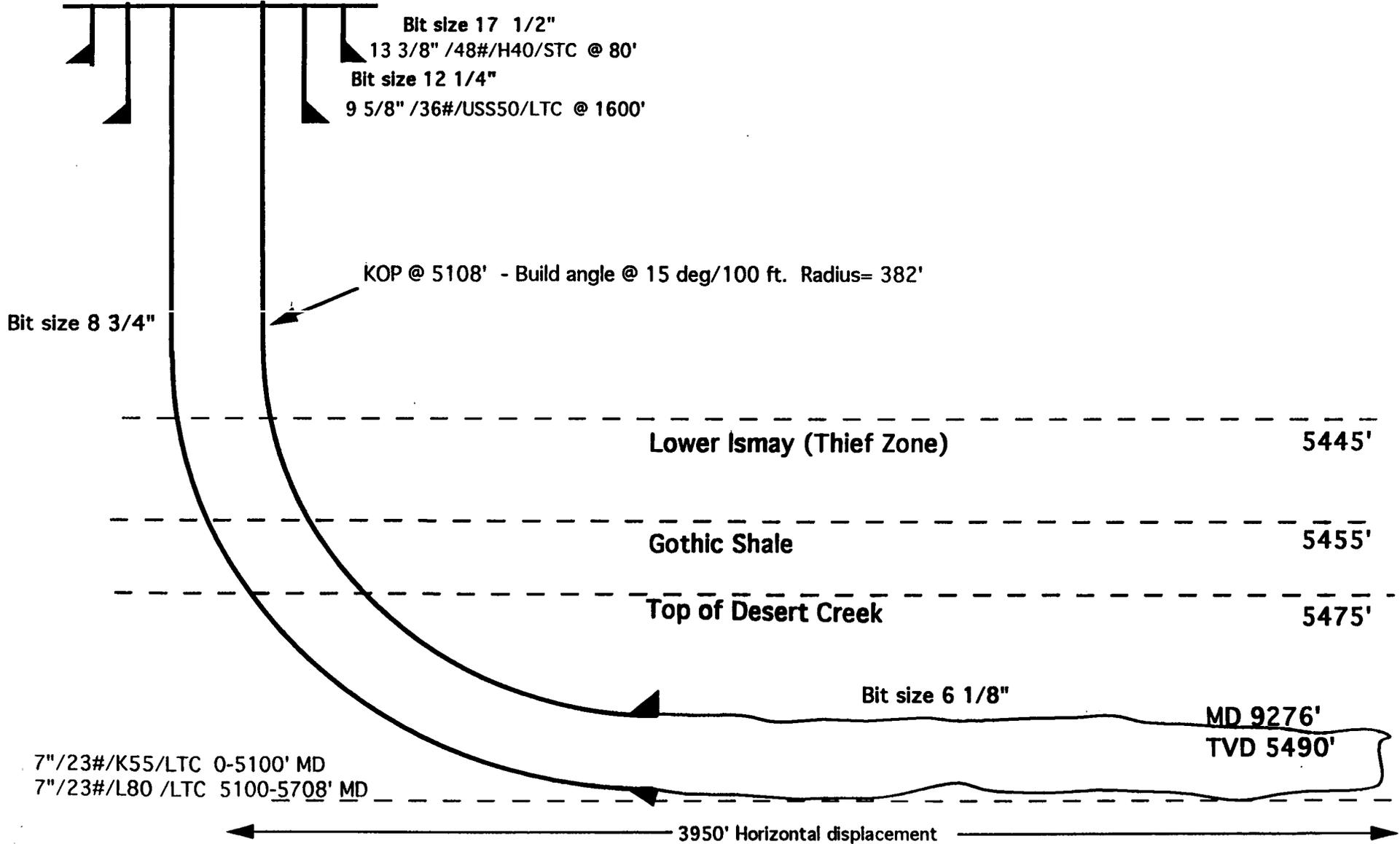
Surface Location:
 Section 17 TWP 41S RGE 24E
 115' FNL & 2495' FEL
 San Juan County, Utah

RATHERFORD UNIT #17-75 PROPOSED P&A DIAGRAM



Surface Location:
Section 17 TWP 41S RGE 24E
115' FNL & 2495' FWL
San Juan County, Utah

RATHERFORD UNIT #17-75 PROPOSED WELL DIAGRAM



Mobil Exploration & Producing U. S. Inc.
Ratherford Unit 17-75
115' FNL & 2495' FEL (Surface)
Sec. 17, T. 41 S., R. 24 E.
San Juan County, Utah

1. DIRECTIONS & EXISTING ROADS

From the Montezuma Creek Post Office, go S 0.6 mi. on BIA Road N-5064. Then turn left and go SE 1.5 mi. on paved BIA Road N-35. Then turn right at RU 8-43 and go W 0.2 mi. on a dirt field road. Then turn left and go S 0.5 mi. on a dirt field road to the wellsite.

Roads will be maintained to a standard at least equal to their present condition. Existing roads need no upgrading.

2. ROAD TO BE BUILT OR UPGRADED

About 50' of new flat bladed road will be built. Running surface will be 15' wide. Maximum disturbed width will be 25' to allow for turning trucks. Maximum grade will be 5%. Maximum cut or fill will be 3'. No culverts or cattleguards are needed.

3. EXISTING WELLS

There are 21 oil and 18 injection wells within a mile. All are within the Ratherford Unit and are shown on an attached map. There are no gas or water wells.

4. PROPOSED PRODUCTION FACILITIES

The well initially will be an oil well. Later, the oil well may be converted to an injection well. A coated (internal and external) injection pipeline will be laid $\approx 250'$ north to an existing injection line. All of it is within the unit. The $\approx 3\text{-}1/2"$ OD welded steel or coiled steel tubing injection line will operate at ≈ 1500 to ≈ 3500 psi, be tested to ≈ 5800 psi, has a burst rating of ≈ 7200 psi, and will be buried $\geq 30"$

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Ratherford Unit 17-75
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Sec. 17, T. 41 S., R. 24 E.
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deep. Fill will be removed from all drainages. Drainages will be returned to a natural form.

An uncoated surface flowline of the same type will run north \approx 2,450' (all within the unit) along existing roads to Mobil's Section 8 Satellite. Surface disturbance will be limited to that necessary for pipeline construction.

A raptor proof three phase powerline will be built \approx 250' southeast (all within the unit) to an existing Mobil powerline at the RU 17-31.

Above ground structures and equipment (only a pumpjack is planned) will be painted with non-glare sand (federal standard 595a-30277) or Mobil beige 12-F-38 color.

5. WATER SUPPLY

Water will be trucked from off the reservation. Mobil has permission from the land/well owner and State Engineer.

6. CONSTRUCTION MATERIALS & METHODS

The top 6" of soil will be stripped and stockpiled east of the reserve pit. Rocks will be piled south of the reserve pit. A diversion ditch will be cut west of the pit and west of the pad. Both will drain south. A minimum 12 mil plastic liner will be installed in the reserve pit.

7. WASTE DISPOSAL

The reserve pit will be fenced sheep tight on 3 sides with woven wire fence topped with barbed wire. The 4th side will be fenced once the rig

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moves off. The fence will be kept in good repair while the pit dries. Once dry, contents of the reserve pit will be buried in place. An overhead net will be installed after drilling and completion are finished.

All trash will be placed in a portable trash cage. It will be hauled to an approved landfill. Human waste will be disposed of in 10' deep ratholes under trailers or in chemical toilets. Ratholes will be filled when the trailers are removed.

8. ANCILLARY FACILITIES

There will be no air strips or camps. Camper trailers will be on location for the company man, tool pusher, and mud loggers.

9. WELL SITE LAYOUT

See attached pages for depictions of the well pad, cross sections, cut and fill diagrams, reserve pit, trash cage, access road onto the location, parking, living facilities, soil stockpile, and rig orientation.

10. RECLAMATION

Reclamation starts once the reserve pit is dry. It usually takes a year for a reserve pit to fully evaporate. All disturbed areas will be recontoured to a natural shape to blend with the surrounding topography. Stockpiled topsoil will be evenly spread. Compacted areas will be plowed or ripped to a depth of 12"-16" before seeding. Seeding will be done between July 1 - August 31 or October 15 - November 30. No seeding will be done when the ground is muddy or frozen. Seed will be drilled 0.5" to 0.75" deep. If broadcast, the rate will be 150% of that

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 Ratherford Unit 17-75
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shown below and the seed covered with a drag. If the well is a producer, then the injection pipeline, reserve pit, and any other areas not needed for workovers will be reclaimed in the same manner.

<i>SPECIES</i>	<i>lbs/acre PLS</i>
Indian ricegrass (<i>Oryzopsis hymenoides</i>)	3
Giant dropseed (<i>Sporobolus giganteus</i>)	2
Needle & thread (<i>Stipa comata</i>)	2
Yellow sweetclover (<i>Melilotus alba</i>)	1
Four wing saltbush (<i>Atriplex canescens</i>)	2

The injection pipeline will be blocked, water barred, and reclaimed in the same manner as the wellsite. Berms will be built at the top of all slopes. Water bars will be spaced as follows:

<u>% Slope</u>	<u>Spacing</u>
1% - 5%	200 feet
6% - 15%	100 feet
>15%	50 feet

11. SURFACE OWNER

The well, road, powerline, and pipelines are all on Navajo Tribal Trust land in the Red Mesa Chapter. Any changes in the surface use plan must be approved by the BIA Indian Minerals Service Office, 1400 LaPlata Highway, Farmington, NM 87499. Call (505) 599-8100.

12. OTHER INFORMATION

The nearest hospital is a ≈75 minute drive away in northwest Monticello. It is 3 blocks northwest of the intersection of US 666 and US 191. Hospital phone number is (801) 587-2116. Or dial 1-800-332-

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Ratherford Unit 17-75
115' FNL & 2495' FEL (Surface)
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San Juan County, Utah

1911 from anywhere in San Juan County, Ut. The closest medical helicopter is in Farmington NM. Farmington hospital phone number is (505) 325-5011.

13. REPRESENTATION

Anyone having questions concerning the APD should contact:

Shirley Robertson, Technician
Mobil Exploration & Producing U. S. Inc.
P.O. Box 633
Midland, Tx. 79702
(915) 688-2585

Brian Wood, Consultant
Permits West, Inc.
37 Verano Loop
Santa Fe, NM 87505
(505) 466-8120

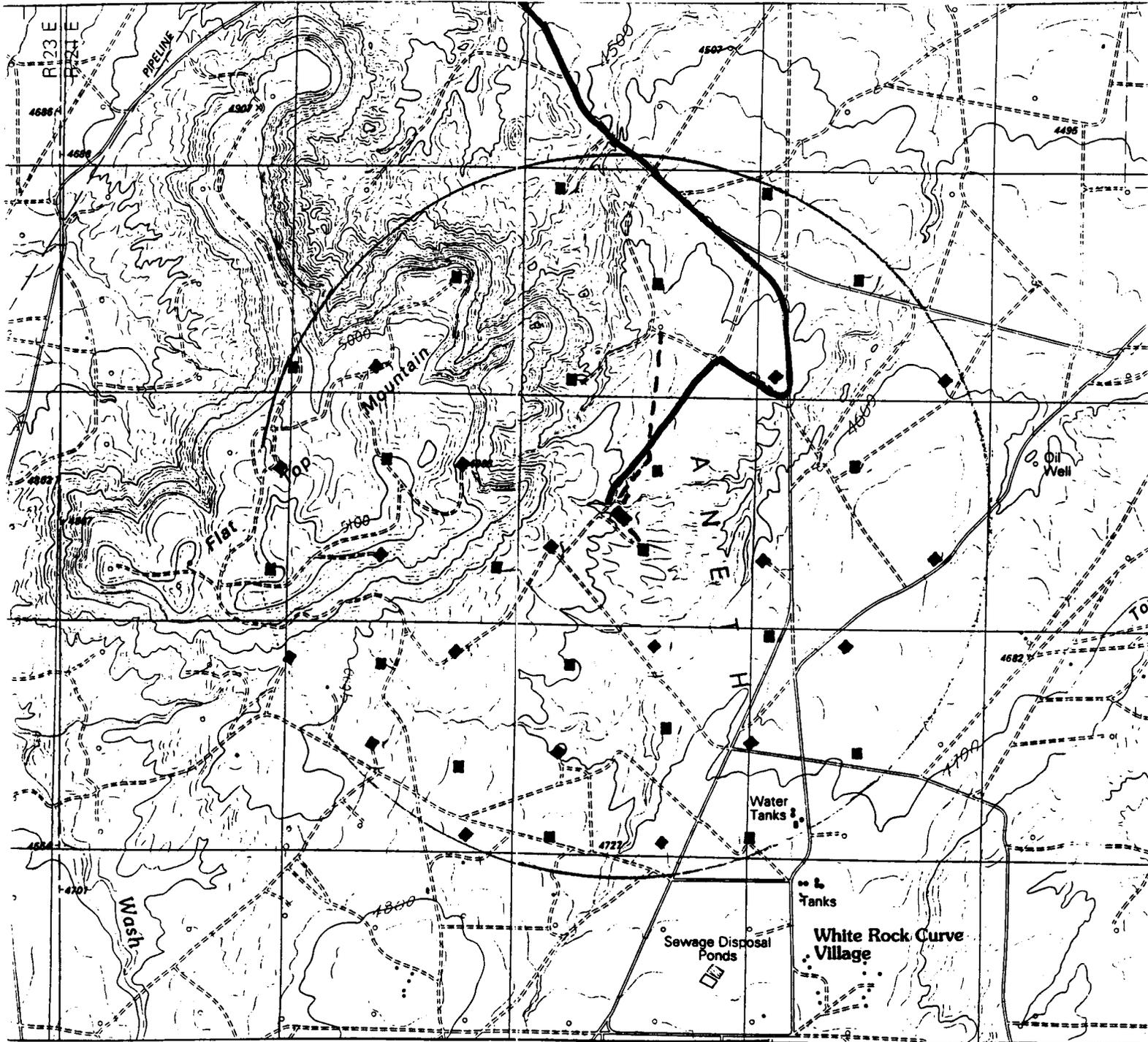
The field representative will be:

Ed Barber, Production Foreman
Mobil Exploration & Producing U. S. Inc.
P.O. Drawer G
Cortez, Co. 81321
(303) 565-9049

Mobil Exploration & Producing U. S. Inc. has the necessary consents from the proper lease owners to conduct lease operations in conjunction with this well. Bond coverage pursuant to 43 CFR 3104 for lease activities and operations is being provided by Mobil Exploration & Producing U. S. Inc.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Mobil Exploration & Producing U. S. Inc. and its contractors and

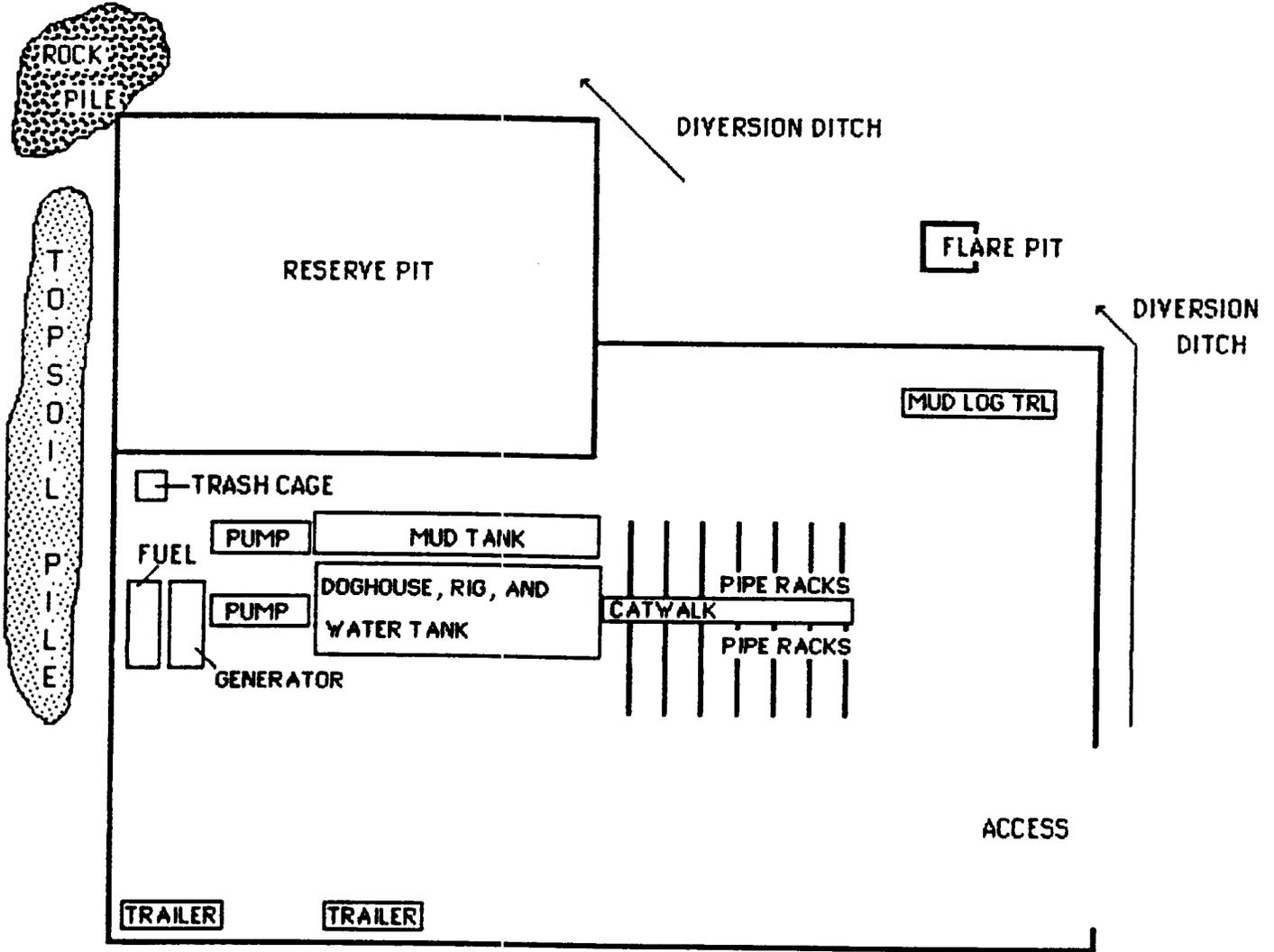
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 Ratherford Unit 17-75
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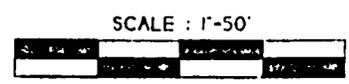
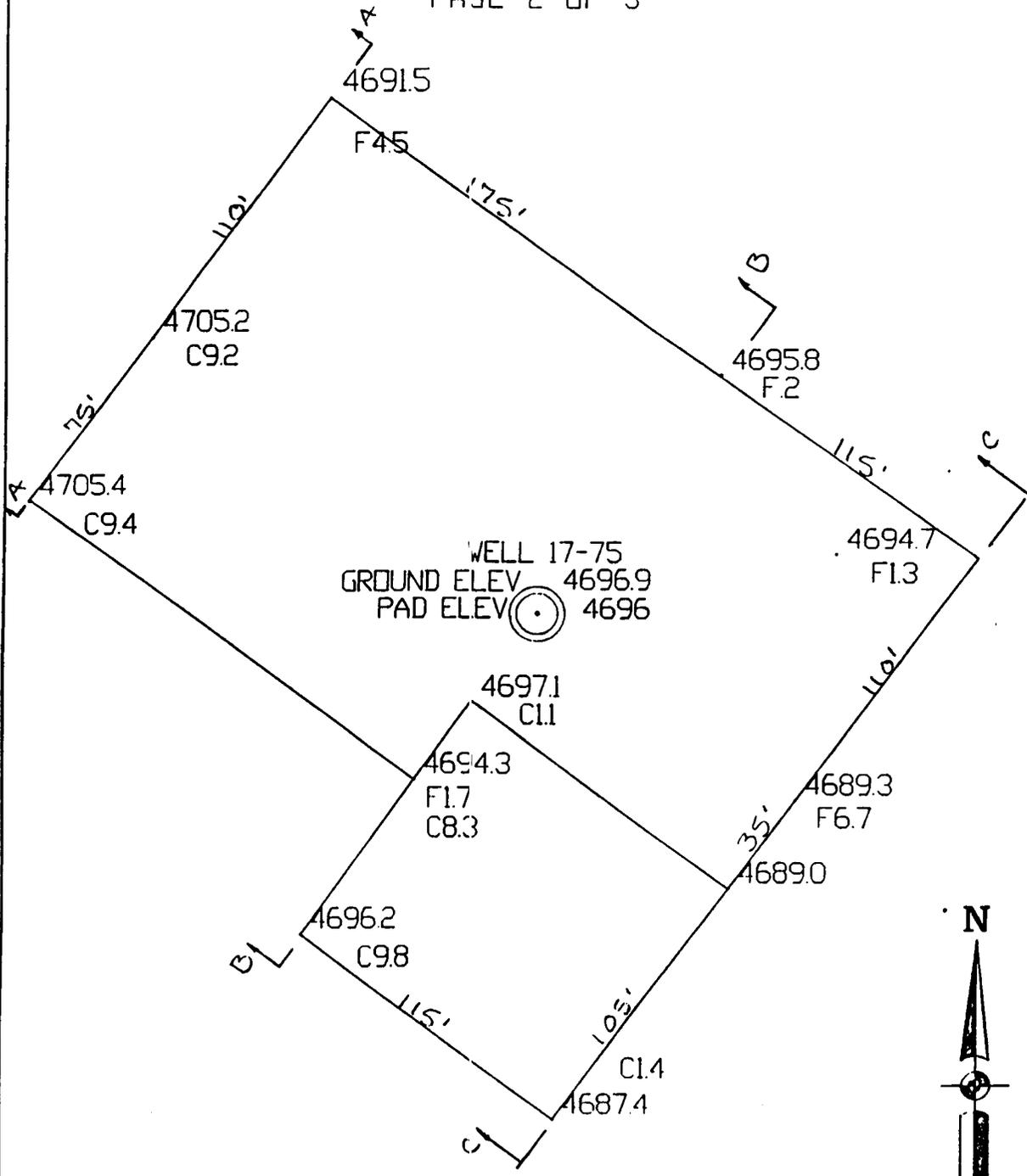
- PROPOSED WELL: ◆
- EXISTING WELL: ■ ◆
- EXISTING ROAD: ~

PROPOSED PIPELINE OR POWERLINE: - - -

Mobil Exploration & Producing U. S. Inc.
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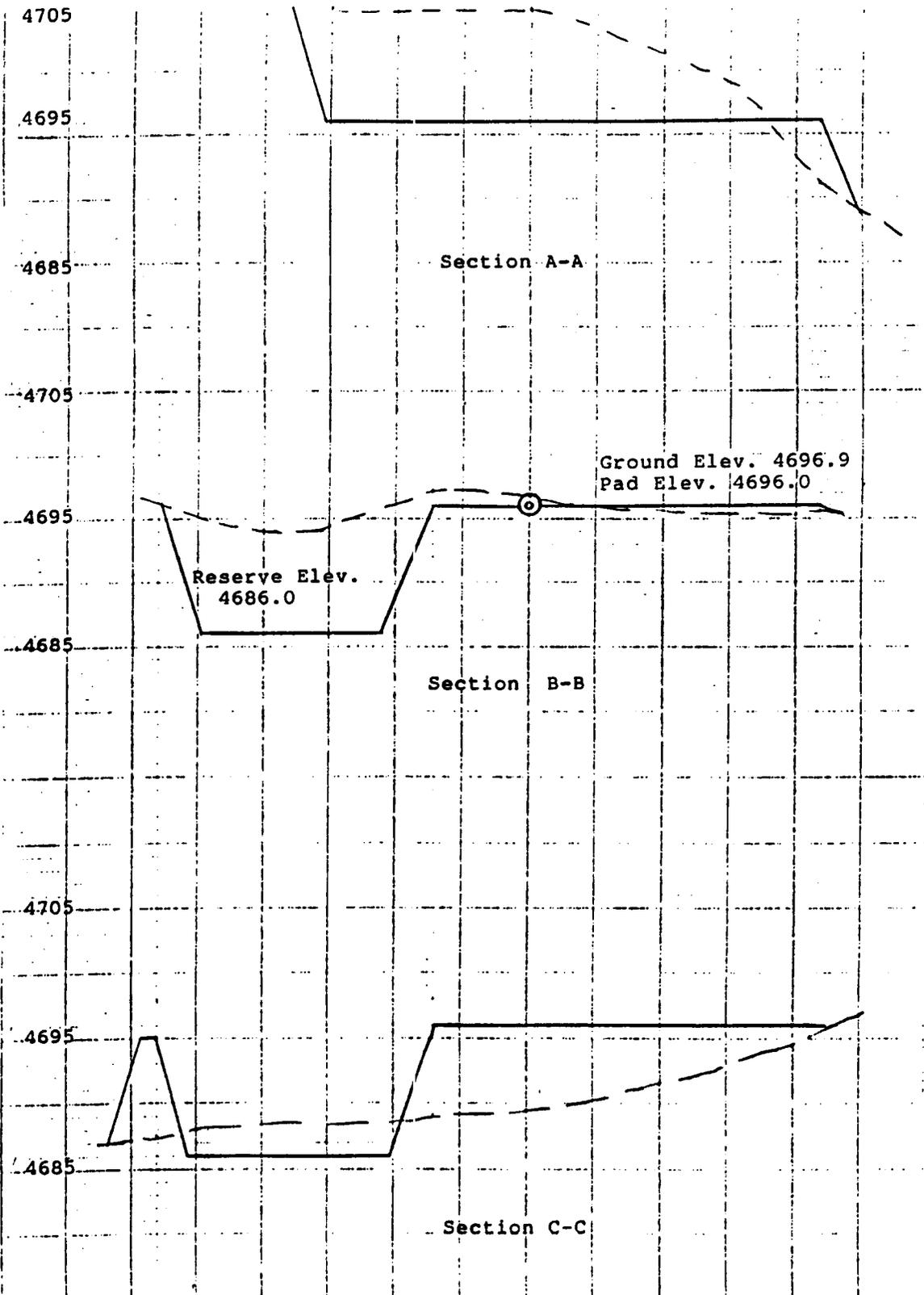


MOBIL OIL COMPANY
 WELL 17-75
 RATHERFORD UNIT NE1/4 SECTION 17
 T. 41S. R. 24E. S.L.M. SAN JUAN COUNTY, UTAH
 JULY 14, 1955
 PAGE 2 OF 3



MANESS & Associates Inc.
 REGISTERED LAND SURVEYORS

P.O. BOX 1183 - 158 NORTH WILDRED - CORTEZ, CO. 81321 - PHONE: 978/585-8815



**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT THIS APPLICATION
(Other instructions on
reverse side)

RECEIVED

OCT 23 1995

DIV. OF OIL, GAS & MINERAL

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER HORIZONTAL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR **Mobil Exploration & Producing U.S. Inc.
as Agent for Mobil Producing TX & NM Incx.**

3. ADDRESS AND TELEPHONE NO.
P.O. Box 633, Midland, TX 79702 **915-688-2585**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *)
 At surface **115' FNL, 2495' FEL**
 At proposed prod. zone **BHL 2500' FNL 70' FEL, SEC. 7**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
2 MILES SE OF MONTEZUMA CREEK, UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **5200' FNL**

16. NO. OF ACRES IN LEASE **2161**

17. NO. OF ACRES ASSIGNED TO THIS WELL **40 ACRES**

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. **643' SE OF 17-31**

19. PROPOSED DEPTH **TVD-5490' MD-9276'**

20. ROTARY OR CABLE TOOLS **ROTARY**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GL: 4664'

22. APPROX. DATE WORK WILL START*
MARCH 1996

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14-20-603-353

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MINNEKAJIO TRIBAL

7. UNIT AGREEMENT NAME
RATHERFORD UNIT

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10. FIELD AND POOL, OR WILDCAT
GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 17, T41S, R24E

12. COUNTY OR PARISH
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23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	80'	110 SX
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8 3/4"	7"	23#	5700'	750 SX

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- FLARE LINE AND MEANS OF IGNITION
- REMOTE CONTROLLED CHOKE
- ESCAPE BREATHING APPARATUS FOR ALL CREW MEMBERS
- H2S SENSORS AND ASSOCIATED AUDIBLE/VISUAL ALARMS(S)
- AT LEAST ONE (1) PORTABLE H2S MONITOR
- WIND DIRECTION INDICATORS
- CAUTION/DANGER SIGN(S) AND FLAG(S)
- MUD-GAS SEPARATOR
- COMMUNICATION FROM WELLSITE

APPROXIMATE H2S LEVELS FOR THE FOLLOWING ZONES:
 ISMAY 80 PPM DESERT CREEK 60 PPM

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 Shuley Robertson TITLE ENV. & REG. TECHNICIAN DATE 10-20-95

(This space for Federal or State office use)

PERMIT NO. 43-037-31769 APPROVAL DATE _____

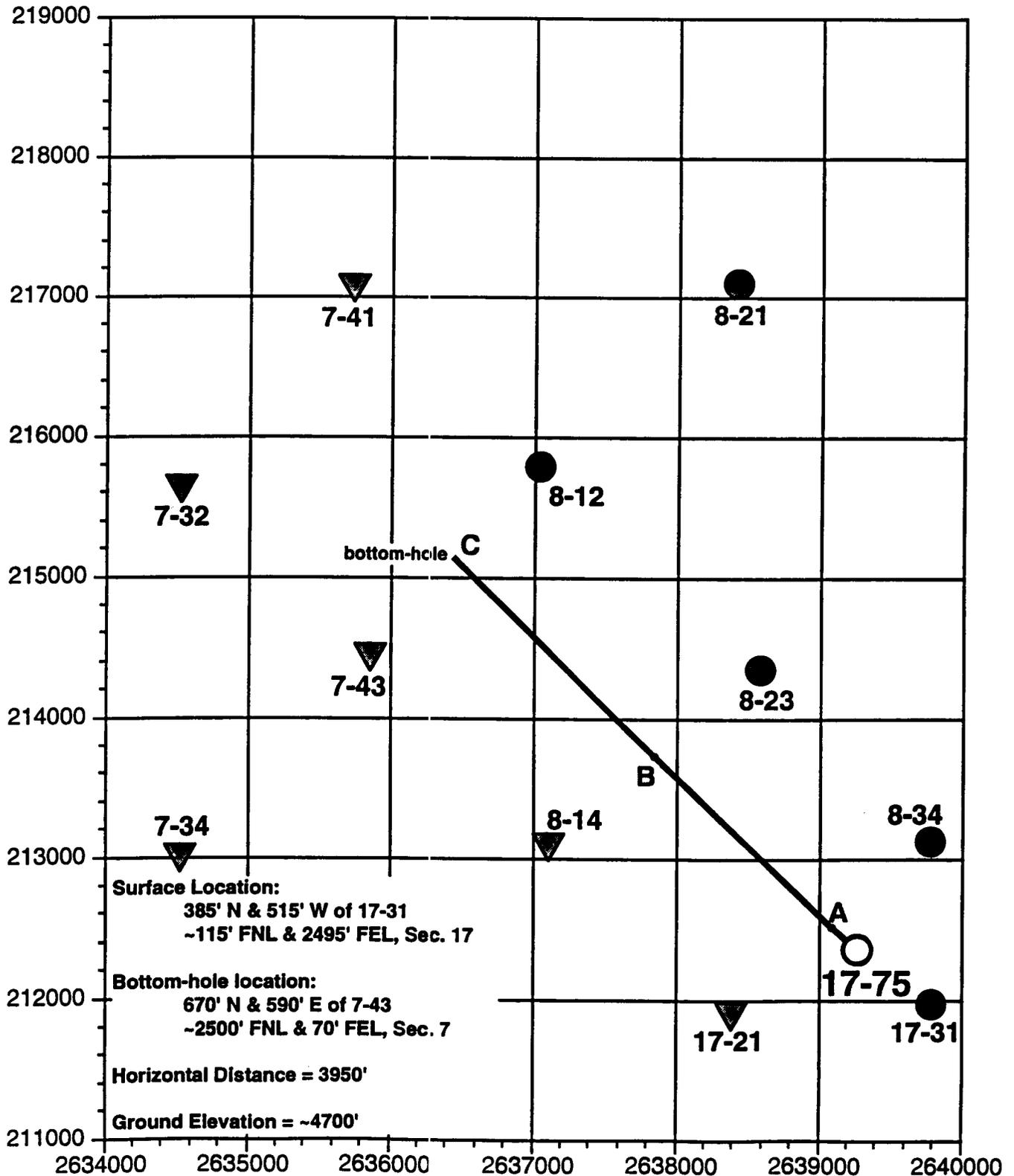
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY John R. Baya TITLE Petroleum Engineer DATE 4-1-97

*See Instructions On Reverse Side

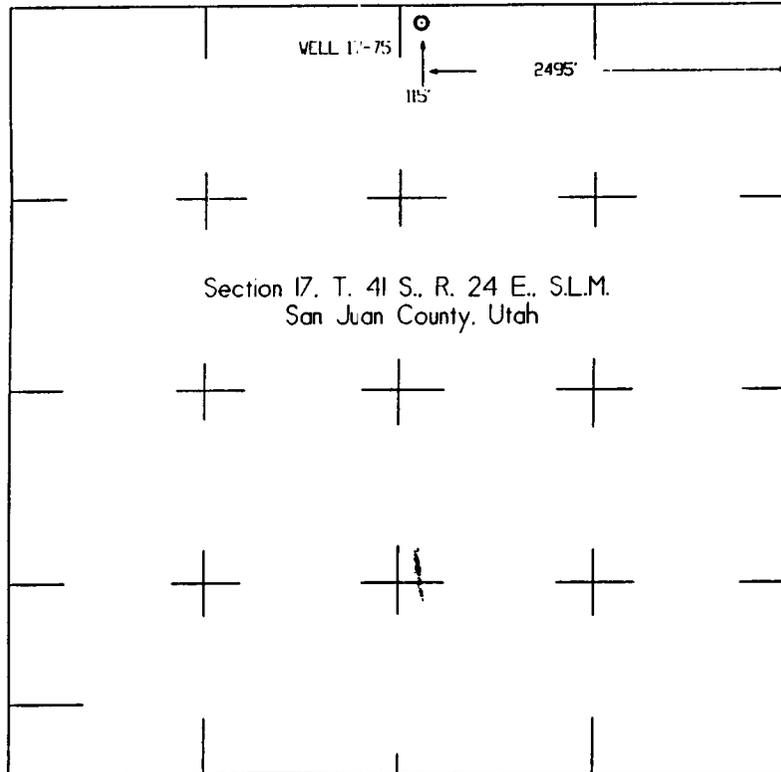
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Ratherford Unit 17-75 New Medium-radius Producer 1996 Horizontal Development Program



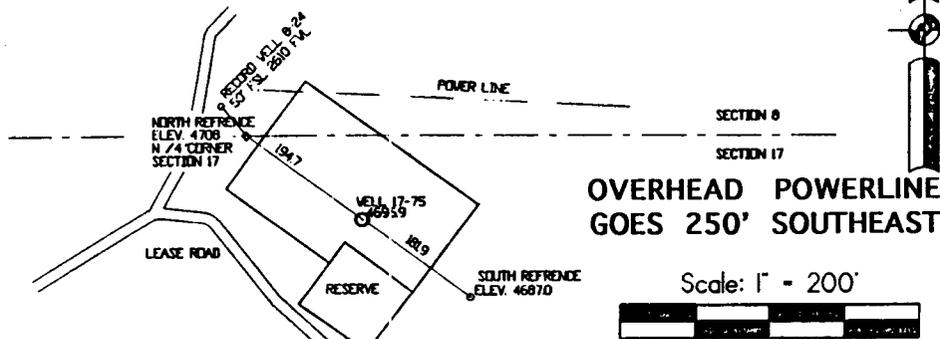
MOBIL OIL COMPANY
 WELL 17-75
 RATHERFORD UNIT, SECTION 17
 T. 41 S., R. 24 E., S.L.M., SAN JUAN COUNTY, UTAH
 JULY 14, 1995

MOBIL OIL COMPANY
 Well 17-75
 Ratherford Unit, NW/4 NE/4 Section 17



Scale: 1" = 1000'

INJECTION PIPELINE GOES 250' NORTH
 SURFACE FLOWLINE GOES 2,450' NORTH



State Plane Coordinates, Utah
 South Zone As derived from
 1989 USGS Map "White Mesa Village
 Utah" Northing-212360 Easting 2644700

MANESS & Associates Inc.
 REGISTERED LAND SURVEYORS

P.O. BOX 1183 - 150 NORTH WILSON - CORTEZ, CO. 81321 - PHONE: 970/505-8816

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/23/95

API NO. ASSIGNED: 43-037-31769

WELL NAME: RATHERFORD 17-75
OPERATOR: MOBIL EXPL & PROD US (N7370)

PROPOSED LOCATION:
NWNE 17 - T41S - R24E
SURFACE: 0115-FNL-2495-FEL
BOTTOM: 2500-FNL-0070-FEL
SAN JUAN COUNTY
GREATER ANETH FIELD (365)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: IND
LEASE NUMBER: 14-20-603-355

PROPOSED PRODUCING FORMATION: DSCR

RECEIVED AND/OR REVIEWED:

___ Plat
___ Bond: Federal[] State[] Fee[]
 (Number _____)
___ Potash (Y/N)
___ Oil shale (Y/N)
___ Water permit
 (Number _____)
___ RDCC Review (Y/N)
 (Date: _____)

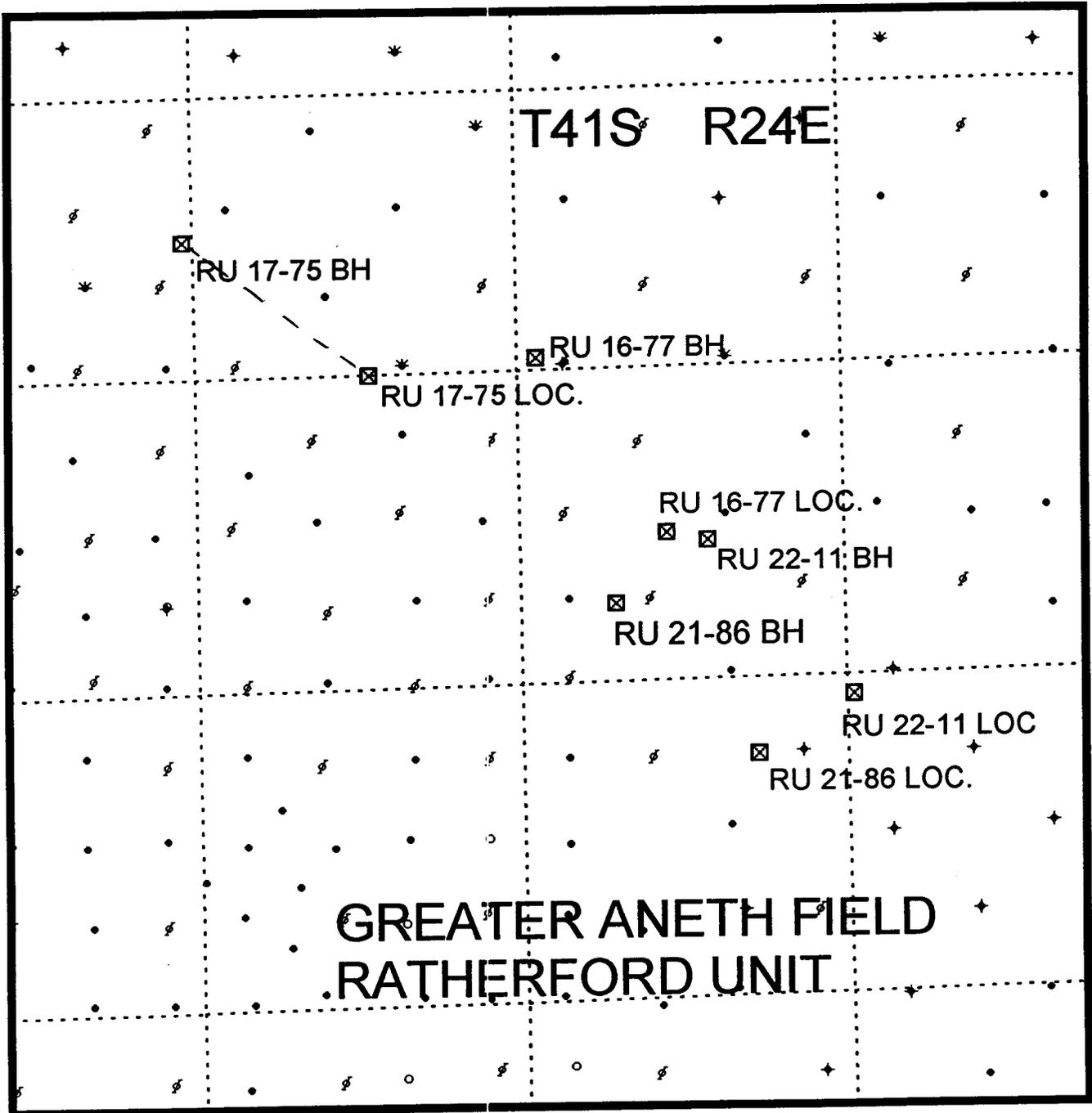
LOCATION AND SITING:

___ R649-2-3. Unit: Ratherford
___ R649-3-2. General.
___ R649-3-3. Exception.
___ Drilling Unit.
 Board Cause no: _____
 Date: _____

COMMENTS: Horizontal well

STIPULATIONS: Directional well stip.

MOBIL EXPL & PROD
GREATER ANETH HORIZONTAL INFILL
RATHERFORD UNIT
SAN JUAN COUNTY, UNIT SPACING



UNIT SPACING
UNIT No.: UTU68931A
UAC R649-2-3

PREPARED:
DATE:10/27/95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

14-20-603-353

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 17-75

9. API Well No.

43-037-

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other SIDETRACK

2. Name of Operator Mobil Exploration & Producing U.S. Inc.
as Agent for Mobil Producing TX & NM Inc.

3. Address and Telephone No.
P.O. Box 633, Midland, TX 79702 915-688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
115' FNL & 2495' FEL
SEC.17, T41S, R24E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

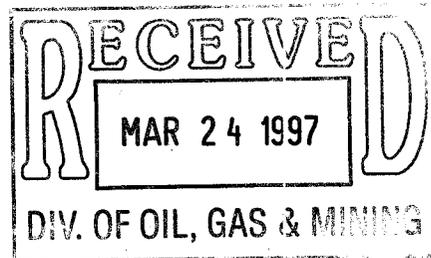
TYPE OF ACTION

- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other SIDETRACK
 Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

13. 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.)*

BHL: 2500' FNL & 70' FEL
MOBIL REQUEST AN EXTENSION ON THE PERMIT TO DRILL THIS WELL.



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

Signed Shirley Houchins Title ENV. & REG. TECHNICIAN

Date 03-18-97

(This space for Federal or State office use)

Accepted by the
Utah Division of
Oil, Gas and Mining

Date _____

Approved by _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FOR RECORD ONLY

* See Instruction on Reverse Side



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

April 1, 1997

Mobil Exploration & Producing
P.O. Box 633
Midland, Texas 79702

Re: Ratherford 17-75 Well, 115' FNL, 2495' FEL, NW NE, Sec. 17,
T. 41 S., R. 24 E., San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-31769.

Sincerely,

A handwritten signature in cursive script that reads "Lowell P. Braxton".

Lowell P. Braxton
Deputy Director

lwp

Enclosures

cc: San Juan County Assessor
Bureau of Land Management, Moab District Office

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other SIDETRACK	5. Lease Designation and Serial No. 14-20-603-353
2. Name of Operator Mobil Exploration & Producing U.S. Inc. as Agent for Mobil Producing TX & NM Inc.	6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3. Address and Telephone No. P.O. Box 633, Midland, TX 79702 915-688-2585	7. If Unit or CA, Agreement Designation RATHERFORD UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 115' FNL & 2495' FEL SEC.17, T41S, R24E	8. Well Name and No. RATHERFORD 17-75
	9. API Well No. 43-037- 31769
	10. Field and Pool, or exploratory Area GREATER ANETH
	11. County or Parish, State SAN JUAN UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other SIDETRACK
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)*

**BHL: 2500' FNL & 70' FEL
MOBIL REQUEST AN EXTENSION ON THE PERMIT TO DRILL THIS WELL.**

*DOGm Approved
APD
on 4/1/97
BTS*

THIS APPROVAL EXPIRES MAR 11 1998

RECEIVED
APR 04 1997
DIV. OF OIL, GAS & MINING

**RECEIVED
BLM
97 MAR 20 PM 12:47
070 FARMINGTON, NM**

14. I hereby certify that the foregoing is true and correct
Signed Shuley Houchins Title ENV. & REG. TECHNICIAN Date 03-18-97

(This space for Federal or State office use)
Approved by [Signature] Title Team Lead - Perm Date 3/24/97
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

OPERATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.

14-20-603-353

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 17-75

9. API Well No.

43-037-31769

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator MOBIL PRODUCING TX & NM INC.*

*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTH

3. Address and Telephone No.

P.O. Box 633, Midland TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

115' FNL & 2495' FEL

SEC. 17, T41S, R24E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
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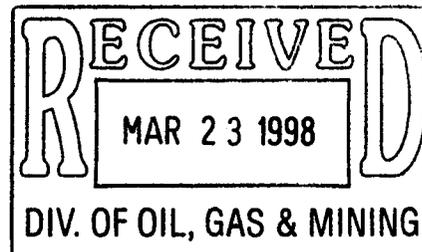
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BHL: 2500' FNL & 70' FEL

MOBIL REQUESTS THAT THE PERMIT TO DRILL THIS WELL BE CANCELLED.

LA DOG-M
DATE
BTS



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

Signed Shirley Houchins

Title SHIRLEY HOUCHINS/ENV & REG TECH

Date 03-18-98

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any: