

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO TRIBAL

7. UNIT AGREEMENT NAME
RATHERFORD UNIT

8. FARM OR LEASE NAME
RATHERFORD UNIT

9. WELL NO.
19-13

10. FIELD AND POOL, OR WILDCAT
GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 19 T41S R24E

12. COUNTY OR PARISH | 13. STATE
SAN JUAN | UT

1a. TYPE OF WORK
DRILL **DEEPEN** **PLUG BACK**

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

2. NAME OF OPERATOR
MOBIL EXPLORATION & PRODUCING U.S. AS AGENT FOR MPTM/MEPNA

3. ADDRESS OF OPERATOR
P O BOX 633 MIDLAND, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
660' FWL 1980' FSL
 At proposed prod. zone
SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
4 1/2 MILES SOUTH OF MONTEZUMA CREEK, UTAH

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

16. NO. OF ACRES IN LEASE
12910

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.
1300' N of 19-12

19. PROPOSED DEPTH
6000'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB - 4747

22. APPROX. DATE WORK WILL START*
Nov. 15, 1993

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	48#	80'	111 ft ³ (Circ. to Surf)
11	8 5/8	24#	1600'	540 ft ³ (Circ to Surf)
7 7/8	5 1/2	15.5#	5600'	1403 ft ³ (Circ to Surf)

SEE ATTACHED 8 POINT WELL CONTROL PLAN FOR ADDITIONAL DRILLING INFORMATION

SEP 27 1993
BUREAU OF LAND MANAGEMENT
MIDLAND, TEXAS

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 Shirley Jodd TITLE ENV. & REG TECHNICIAN DATE 9-24-93

(This space for Federal or State office use)

PERMIT NO. 43-037-31719 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

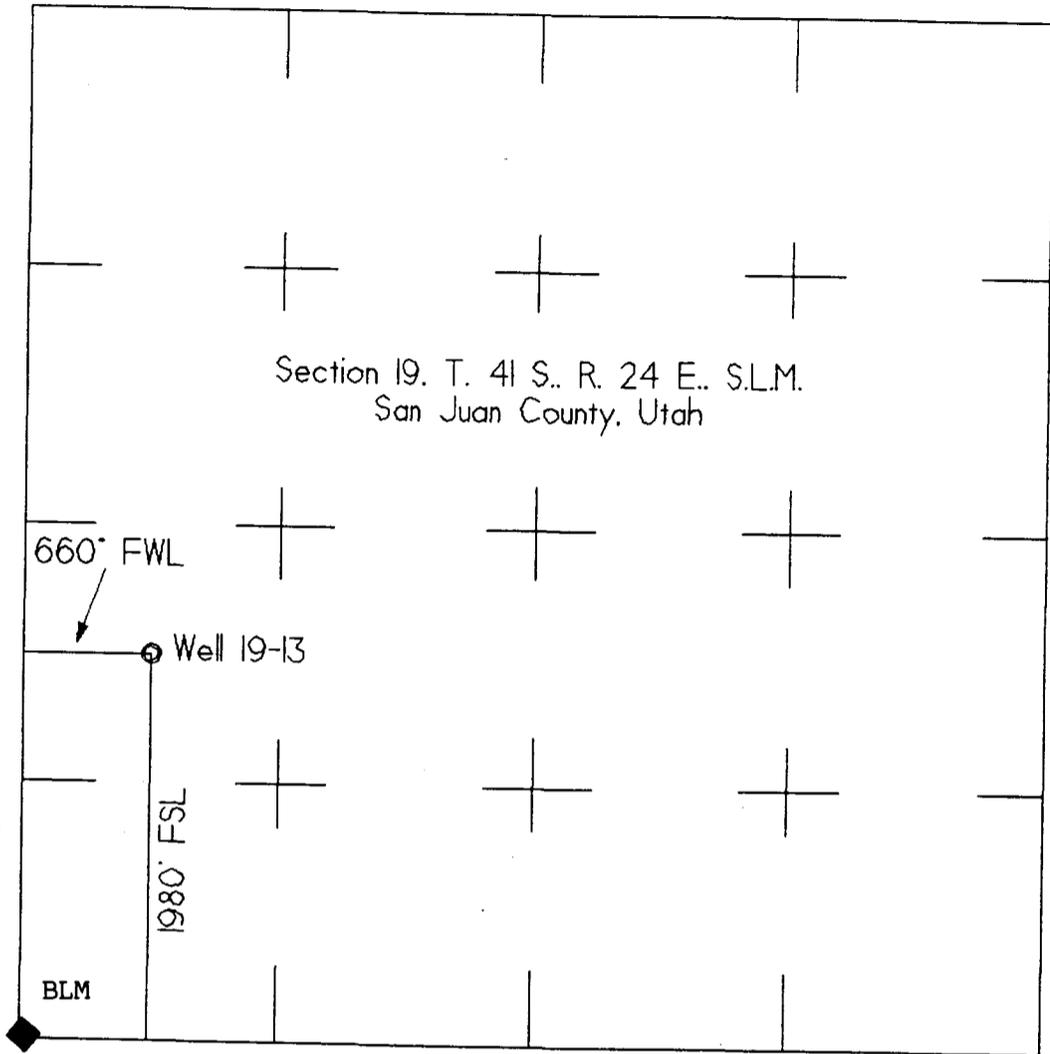
CONDITIONS OF APPROVAL, IF ANY:

***See Instructions On Reverse Side**

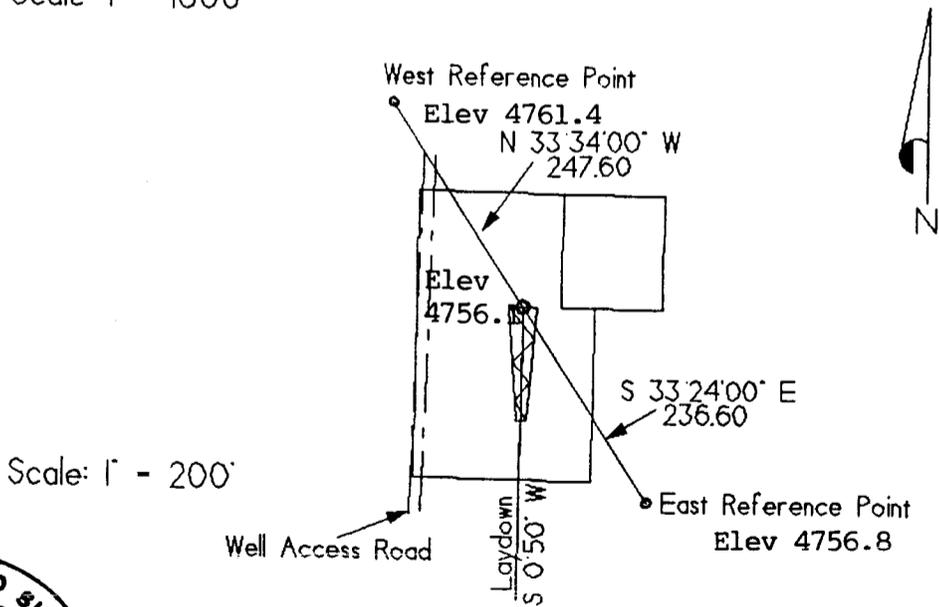
Mobil Oil Co - Well 19-13 Ratherford Unit
SW $\frac{1}{4}$ Section 19, T41S, R24E, SLM, San Juan County, Utah

August 18, 1993
Page 1 of 3

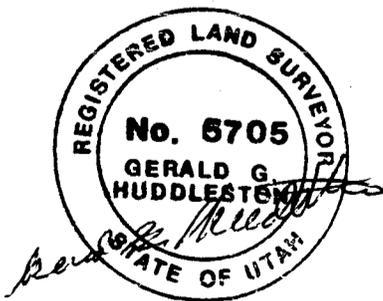
MOBIL OIL COMPANY
Well 19-13
Ratherford Unit, NW/4 SW/4 Section 19



Scale: 1" = 1000'



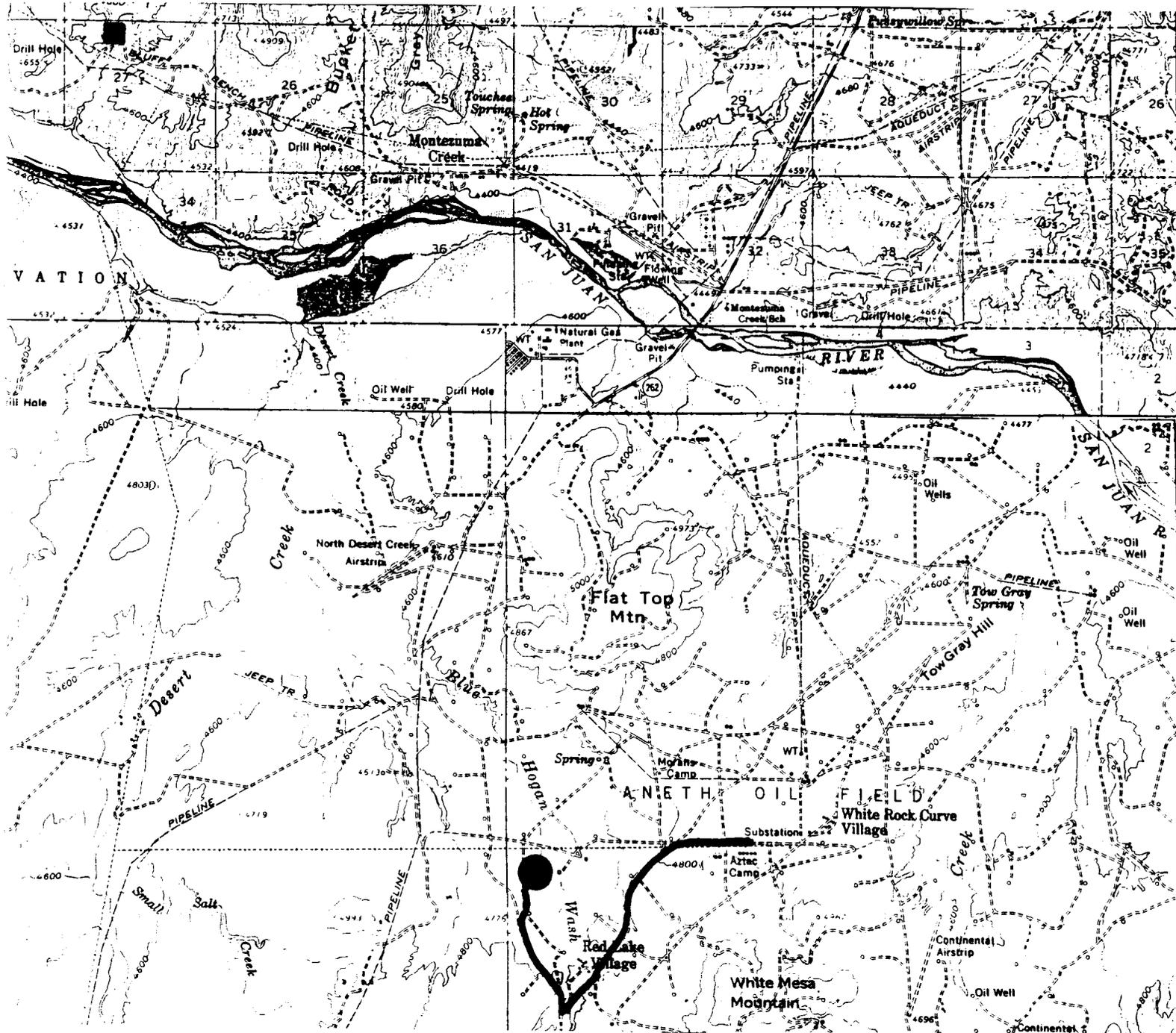
Scale: 1" = 200'



MANESS AND ASSOCIATES, INC.
SURVEYING

PO BOX 1163
215 N. Linden
Cortez, Colorado
565-8845

Mobil Exploration & Producing U.S. Inc.
 Ratherford Unit 19-13
 1980' FSL & 660' FWL
 Sec. 19, T. 41 S., R. 24 E.
 San Juan County, Utah

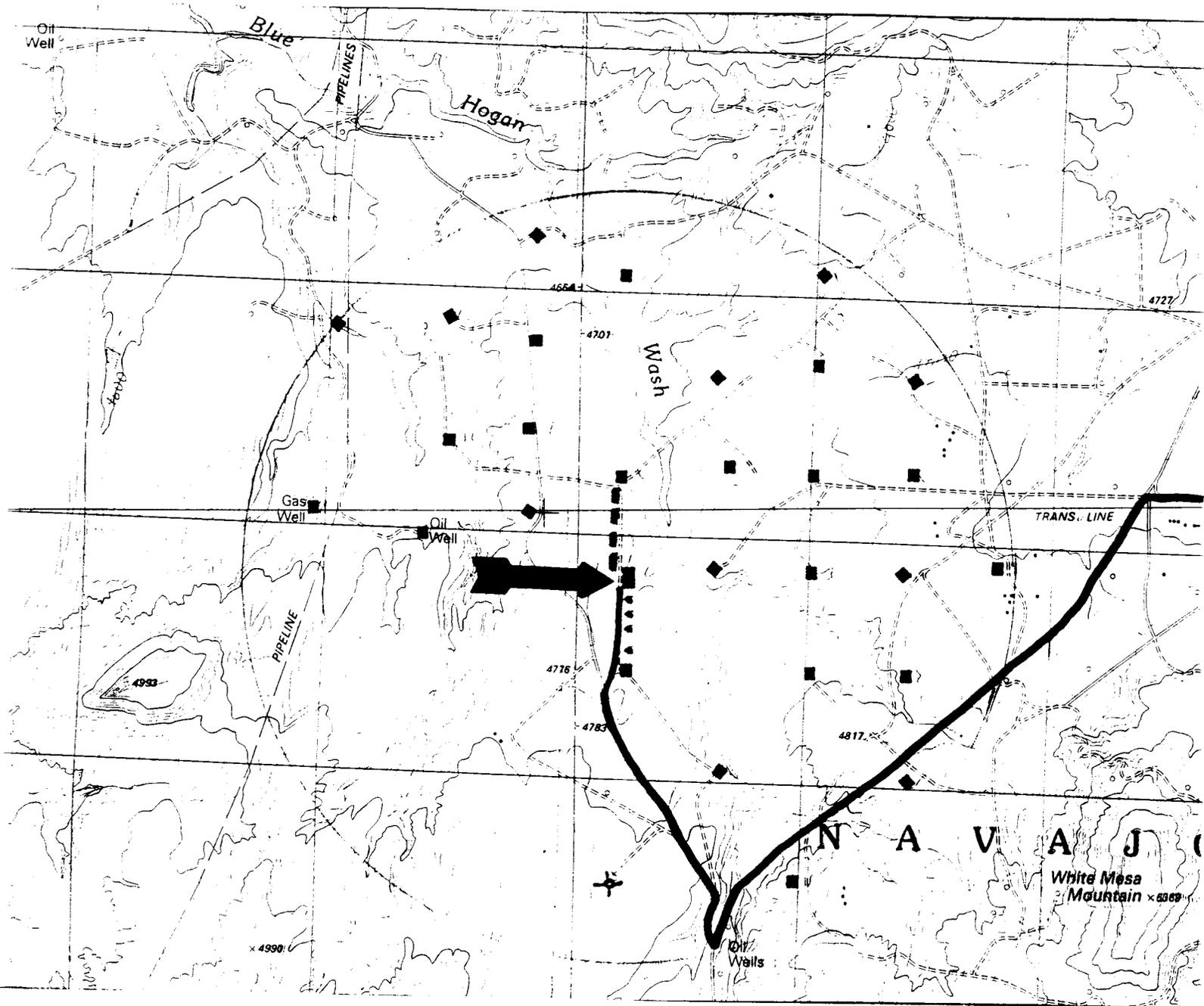


Proposed Well: ●

Access Road: ~

Water Source: ■

Mobil Exploration & Producing U.S. Inc.
 Ratherford Unit 19-13
 1980' FSL & 660' FWL
 Sec. 19, T. 41 S., R. 24 E.
 San Juan County, Utah



Proposed 19-13 Well: 

Existing Injection Well: 

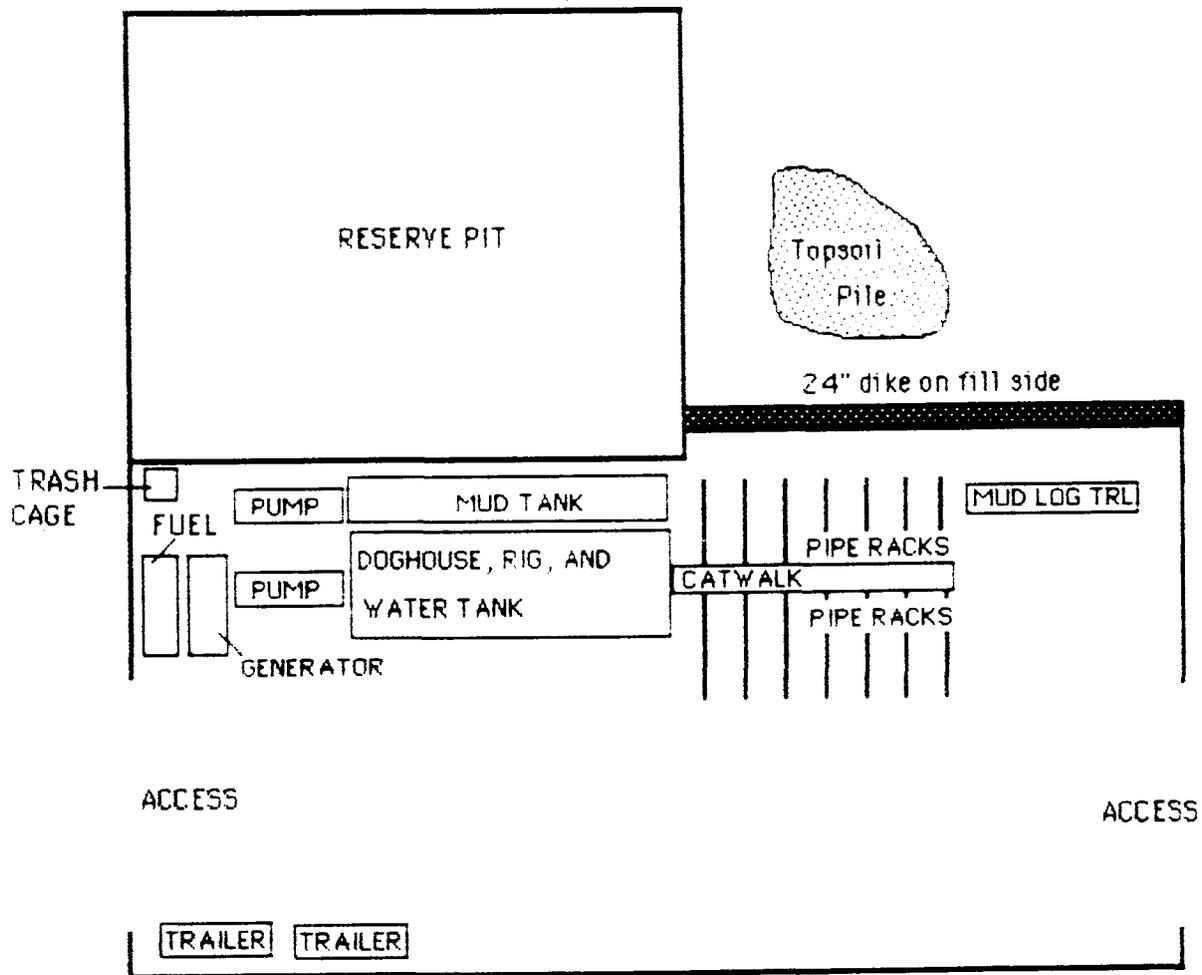
Proposed Pipelines: 

Existing Oil Well: 

Proposed Powerline: 

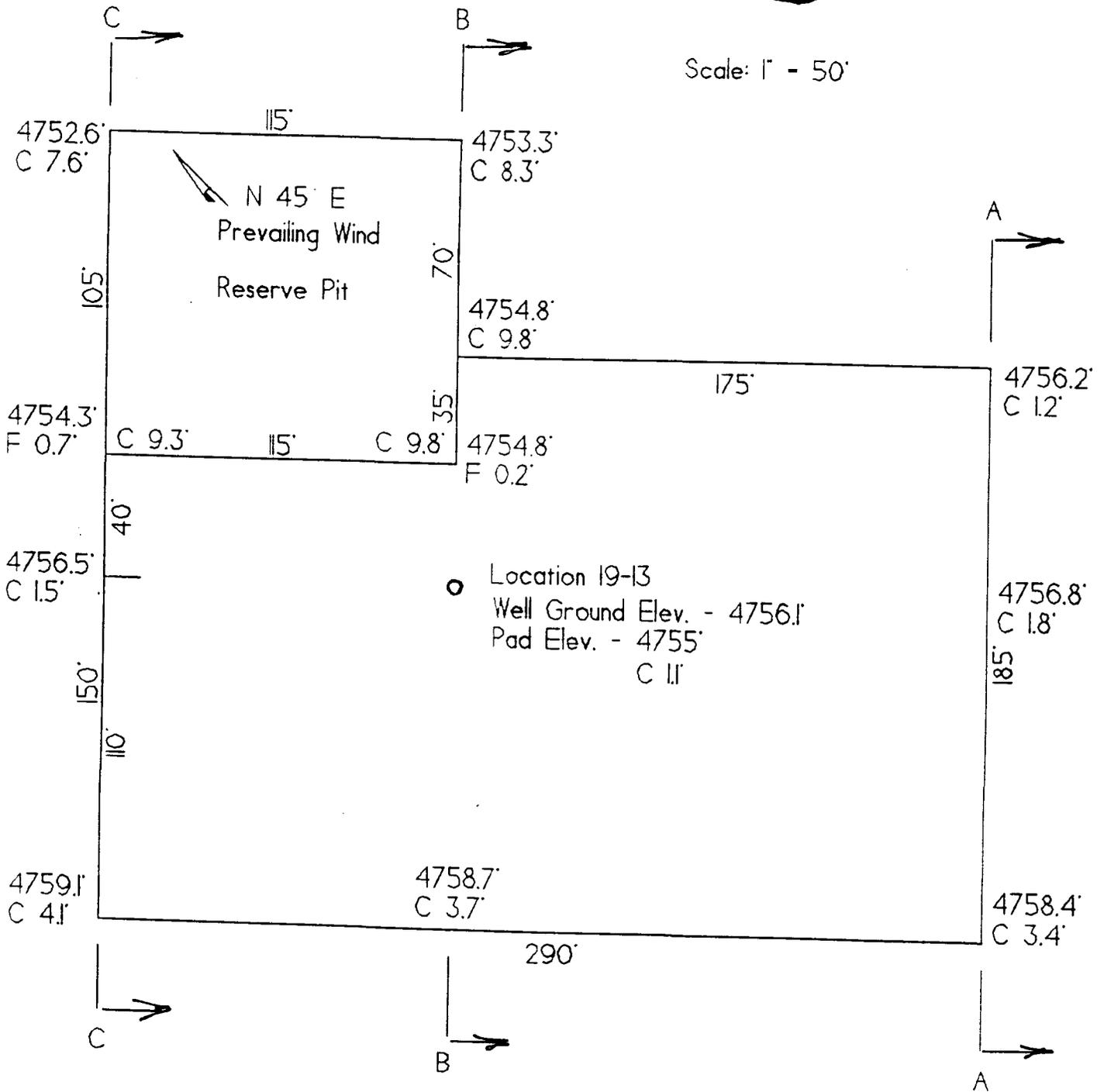
Access Road: 

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah





Scale: 1" = 50'



See page 3 for cross sections

MANESS AND ASSOCIATES, INC.
SURVEYING

PO BOX 1163
215 N. Linden
Cortez, Colorado

4670

Proposed Pad 4755

4750

Section A-A

4760

Ground Elev. 4756.1

4750

2:1

Reserve

2:1

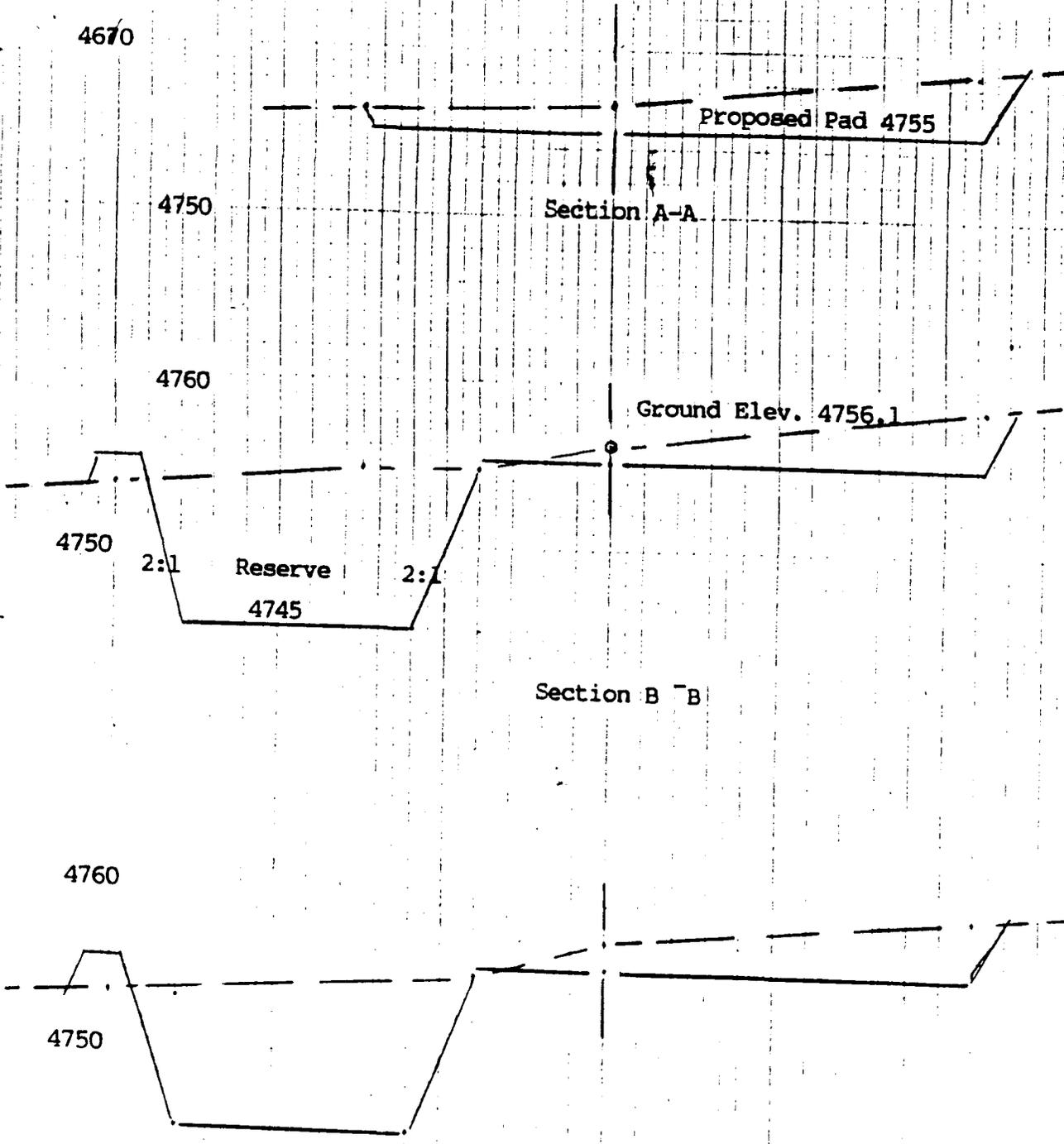
4745

Section B-B

4760

4750

Section C-C



Mobil Oil Corporation
 Ratherford Unit #19-13
 1980' FSL and 660' FWL
 Section 19, 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	1300'	1312'	3447'
DeChelly SS	2560'	2572'	2187'
Hermosa LS	4465'	4477'	282'
Ismay LS	5350'	5362'	-603'
L. Ismay LS	5420'	5432'	-673'
Gothic Shale	5440'	5452'	-693'
Desert Creek I	5460'	5472'	-713'
Desert Creek II	5500'	5512'	-753'
Chimney Rock	5620'	5632'	-873'
Total Depth (TD)	5680'	5692'	-933'

* All depths based on ground level of 4747'

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 2620'		Desert Creek I 5530' Desert Creek II 5600'

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)

The drilling contract has not yet been awarded, thus the exact types of BOP's to be used are not yet known. Examples of a typical BOP and choke manifold are on Page 3. 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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 Ratherford Unit #19-13
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 Section 19, T-41-S, R-24-E
 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'
11"	8-5/8"	24#	USS50	ST&C	New	0000' - 1600'
7-7/8"	5-1/2"	15.5#	USS50	LT&C	New	0000' - 5600'

Surface Casing (0' to 80'): Cement to surface with 111 ft³. Volume calculated with 100% excess. Ready-Mix cement.

Intermediate Casing (0' to 1600'): Cement to surface with 540 ft³. Volume calculated with 30% excess. Lead with slurry of 65:35:6 "B" Poz + 2% CaCl₂. Tail with Class "B" + 2% CaCl₂. Total of 12 centralizers and one stop collar. One on the shoe joint and one every third collar to 200' from surface.

Production Casing (0' to 5800'): Cement to surface with 1403 ft³. Volume calculated with 50% excess. Lead with slurry of 50/50 "G" Poz + 8% Gel + .75% Halad-344. Tail with slurry of Premium Cement + 0.05 gal/sx D-AIR-3 + 2.0 gal/sx Latex 2000 + 0.22 gal/sx 434B + 0.5% CFR-3 (Weight/Yield = 15.6/1.18). Total of 17 centralizers and 3 stop collars. One centralizer on the float shoe then every third 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	8.4 - 8.8	35 - 45	NC
1600' - 5000'	FW/PHPA	9.0 - 11.5	36 - 48	NC
5000' - 5800'	FW/PHPA	10 - 11.5	36 - 48	10 - 15

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

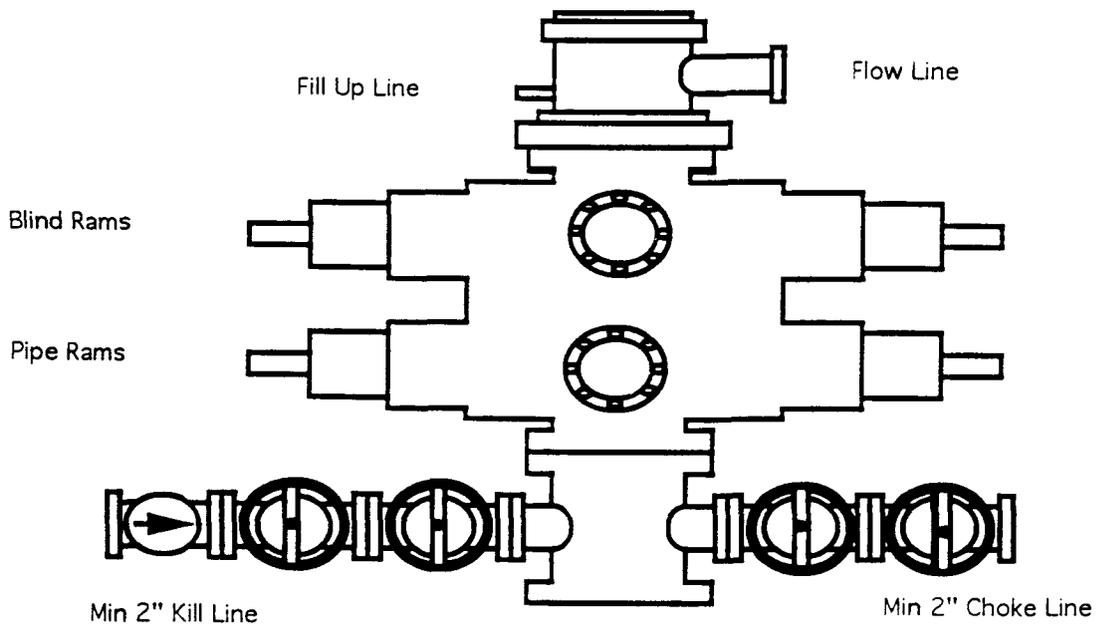
Possible water flows in the DeChelly formation may be encountered.

8. MISCELLANEOUS

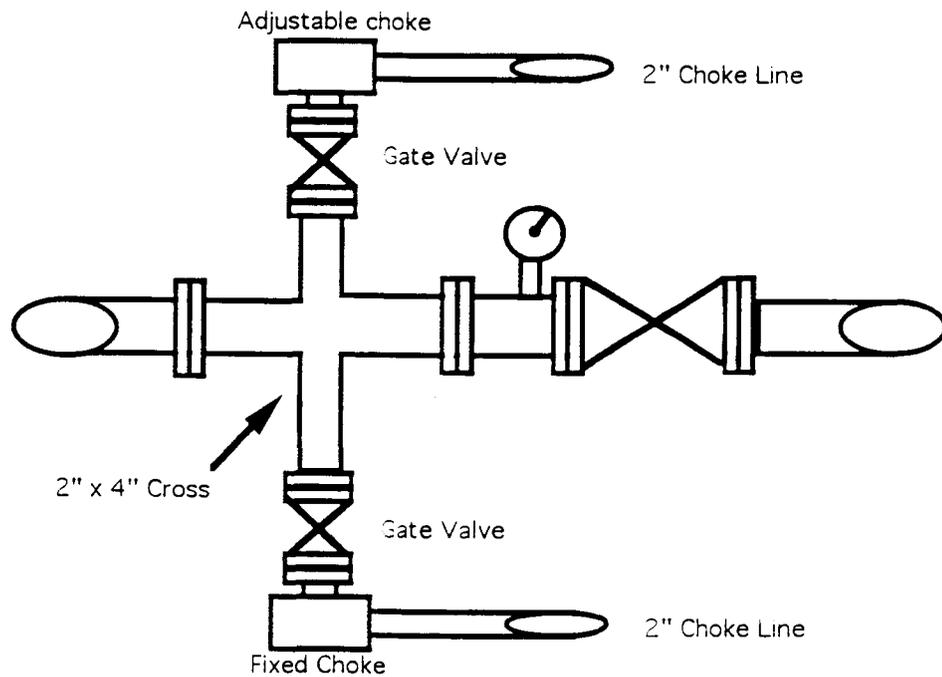
The anticipated spud date is November, 1993. It is expected to take +/- 24 days to drill the well and 10 days to complete the well.

Mobil Oil Corporation
Ratherford Unit #19-13
Sec 19, T-41-S, R-24-E
660' FWL and 1980' FSL
San Juan Co., Utah

Bop Equipment
11" x 3000 psi Working Pressure

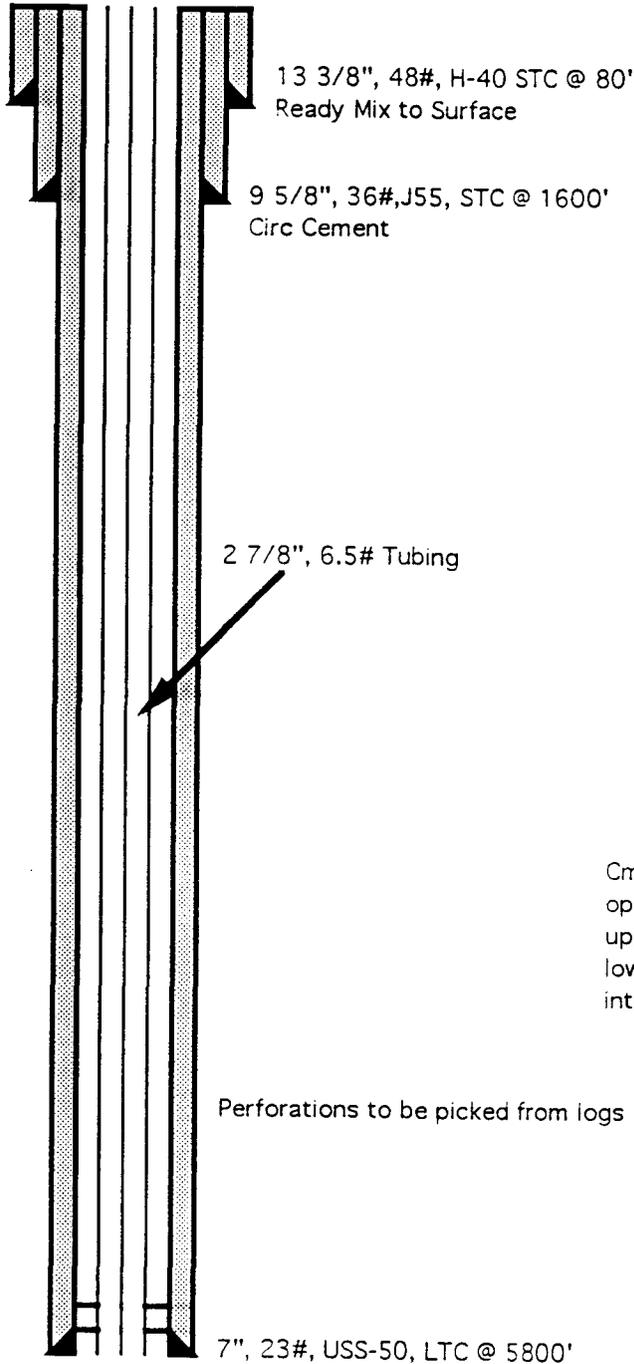


Choke Manifold
3000 psi

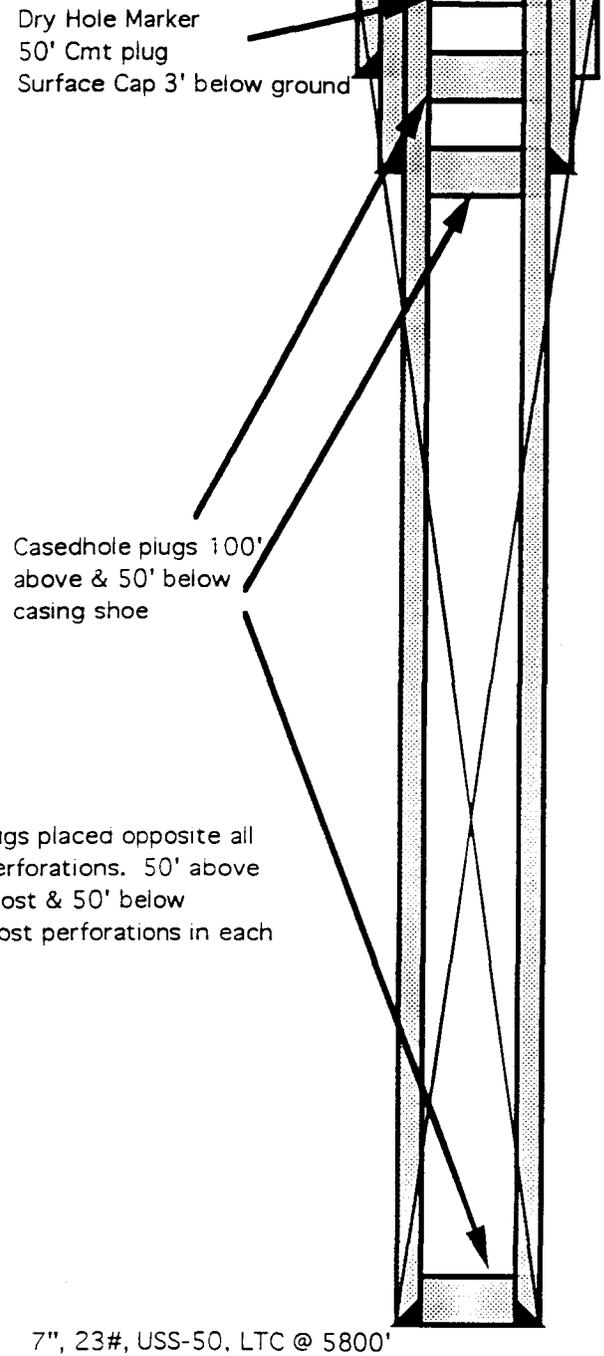


Mobil Oil Corporation
 Ratherford Unit #19-13
 Sec 19, T-41-S, R-24-E
 660' FWL and 1980' FSL
 San Juan Co., Utah

Proposed Completion



Proposed P&A



Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

1. DIRECTIONS & EXISTING ROADS

From the Ratherford Unit Field Office, go W 0.2 mi. on a paved field road. Then turn left and go SW 1.7 mi. on paved BIA Road N-35. Then turn sharply right and go NW 0.7 mi. on dirt County Road 410. Then turn right and go NE 0.4 mi. on a dirt field road to the 19-13 well. The latter road crosses the west side of the wellpad.

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

2. ROAD TO BE BUILT

No road will be built or upgraded since an existing field road crosses the pad. Traffic will still cross the pad during drilling and production.

3. EXISTING WELLS

There are seventeen oil, eleven injection, and one P&A wells within a mile radius. All are shown on an attached map. There are no water or gas wells. All of the wells within a $\approx 1,475'$ radius are within the Ratherford Unit.

4. PROPOSED PRODUCTION FACILITIES

Production will be piped via a $\approx 1000'$ long surface (buried at road crossing) flowline north along the west side of the road to an existing header. No new tanks are needed. If the well is converted to an injector, then a $\approx 135'$ long buried injection line will be laid north along the west

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side of the same road to an existing injection line. Surface disturbance will be limited to that necessary for pipeline construction. All fill material will be removed from all drainages and the drainages returned to their natural form.

The ≈ 3.5 " OD coiled steel tubing flowline will operate at ≈ 200 psi, be tested to ≈ 5800 psi, has a burst rating of ≈ 7200 psi, and will be laid on the surface except at road crossings. The ≤ 6 " 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, will be internally coated or lined, and will be buried at least 30" deep.

An above ground 3 phase 25kv $\approx 800'$ long raptor proof powerline will be built south to an existing powerline at the 19-14 well.

Above ground structures and equipment (only a pump jack 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 a BLM (San Juan RA of the Moab District) artesian well in NENW 27-40s-23e. Mobil has permission from the Monticello BLM office.

6. CONSTRUCTION MATERIALS & METHODS

The top 10" of soil and brush will be stripped and stored east of the pad and south of the pit. A 24" high berm will be built along the fill (east) side of the pad. A minimum 12 mil plastic liner will be installed in the

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

reserve pit. Due to its location in a sandy area, the wellpad surface may be rocked. Rock surfacing material will be bought from a private source. No material will be taken from public land.

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 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 is 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.

Mobil Exploration & Producing U.S. Inc.
 Ratherford Unit 19-13
 1980' FSL & 660' FWL
 Sec. 19, T. 41 S., R. 24 E.
 San Juan County, Utah

10. RECLAMATION

Reclamation starts once the reserve pit is dry. It usually takes a year for a reserve pit to fully evaporate. Rock surfacing material will be removed before starting reclamation. 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 shown below and the seed covered with a drag. If the well is a producer, then the reserve pit and any other areas not needed for workovers will be reclaimed in the same manner.

<i>SPECIES FOR ROAD & WELLPAD</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 road will be blocked, water barred, and reclaimed in the same manner as the wellsite if it is no longer needed for access to adjacent wells (e.g., 19-14). 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

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
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San Juan County, Utah

The injection pipeline will be seeded (below) with a slightly different seed mix, but otherwise reclaimed in the same manner as the wellpad and road. Berms will be built at the top of all slopes and road or trail crossings.

<i>SPECIES FOR PIPELINE</i>	<i>lbs/acre PLS</i>
Indian ricegrass	3
Giant dropseed	1
Sand dropseed	1
Mammoth wild rye	3
Four wing saltbush	3

11. SURFACE OWNER

The well, new 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 Branch of Natural Resources, P.O. Box 966, Shiprock, NM 87420. Call Randy Cornett at (505) 368-4427.

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 1-800-332-1911 from anywhere in San Juan County, Ut. The closest medically equipped helicopter is in Farmington NM. Farmington hospital phone number is (505) 325-5011.

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Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
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13. REPRESENTATION

Anyone having questions concerning the APD should contact:

Shirley Todd, 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) 984-8120

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 subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
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provisions of 18 U.S.C. 1001 for the filing of a false statement.

T. Klancher

for Diane Klancher
Environmental Regulatory/LP Supervisor
Environmental & Regulatory Dept.
Mobil Exploration & Producing U. S. Inc.

9-23-93
Date

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 09/27/93

API NO. ASSIGNED: 43-037-31719

WELL NAME: RATHERFORD UNIT 19-13
OPERATOR: MOBIL EXPL. & PROD. (N7370)

PROPOSED LOCATION:
NWSE 19 - T41S - R24E
SURFACE: 0660-FWL-1980-FSL
BOTTOM: 0660-FWL-1980-FSL
SAN JUAN COUNTY
GREATER ANETH (R.U.) FIELD (365)

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

LEASE TYPE: IND
LEASE NUMBER: 14-20-603-353

RECEIVED AND/OR REVIEWED:

Plat
 Bond FEDERAL
(Number _____)

Potash (Y/N)
 Oil shale (Y/N)

Water permit
(Number BLM _____)

RDCC Review (Y/N)
(Date: _____)

LOCATION AND SITING:

R649-2-3. Unit: SW-I-4192

R649-3-2. General.

R649-3-3. Exception.

Drilling Unit.
Board Cause no: 152-4
Date: 5/29/54 (40 ACRES)

COMMENTS: WATER WILL BE PURCHASE FROM A BLM
WELL SEC. 27-40S-23E, NO CURRENT POD
ON FILE POD 10/26/93

STIPULATIONS: _____

AMENDED

SUBMIT IN APPLICATION
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
MOBIL EXPLORATION & PRODUCING U.S. AS AGENT FOR MPTM/MEPNA

3. ADDRESS OF OPERATOR
P O BOX 633 MIDLAND, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
660° FWL 1980° FSL
 At proposed prod. zone
SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
4 1/2 MILES SOUTH OF MONTEZUMA CREEK, UTAH

13. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. **660° FROM RATHERFORD UNIT**
 (Also to nearest drilg. unit line, if any) **LEASE LINE**

18. NO. OF ACRES IN LEASE
2161

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

19. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. **1300° N of 19-12**

19. PROPOSED DEPTH
6000'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB - 4747

22. APPROX. DATE WORK WILL START*
Nov. 15, 1993

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23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	48#	80'	111 ft ³ (Circ. to Surf)
11	8 5/8	24#	1600'	540 ft ³ (Circ to Surf)
7 7/8	5 1/2	15.5#	6000	1403 ft ³ (Circ to Surf)

SEE ATTACHED 8 POINT WELL CONTROL PLAN 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
- 2) Remote controlled choke
- 3) Escape breathing apparatus for all crew members
- 4) H₂S sensors and associated audible/visual alarm(s)
- 5) At least one (1) portable H₂S monitor
- 6) Wind direction indicators
- 7) Caution/danger sign(s) and flag(s)
- 8) Mud-gas separator
- 9) Communication from wellsite

RECEIVED
OCT 12 1993

DIVISION OF
OIL, GAS & MINING

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 Shirley Doad TITLE ENV. & REG TECHNICIAN DATE 10-8-93

(This space for Federal or State office use)

PERMIT NO. 43-037-31719 APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

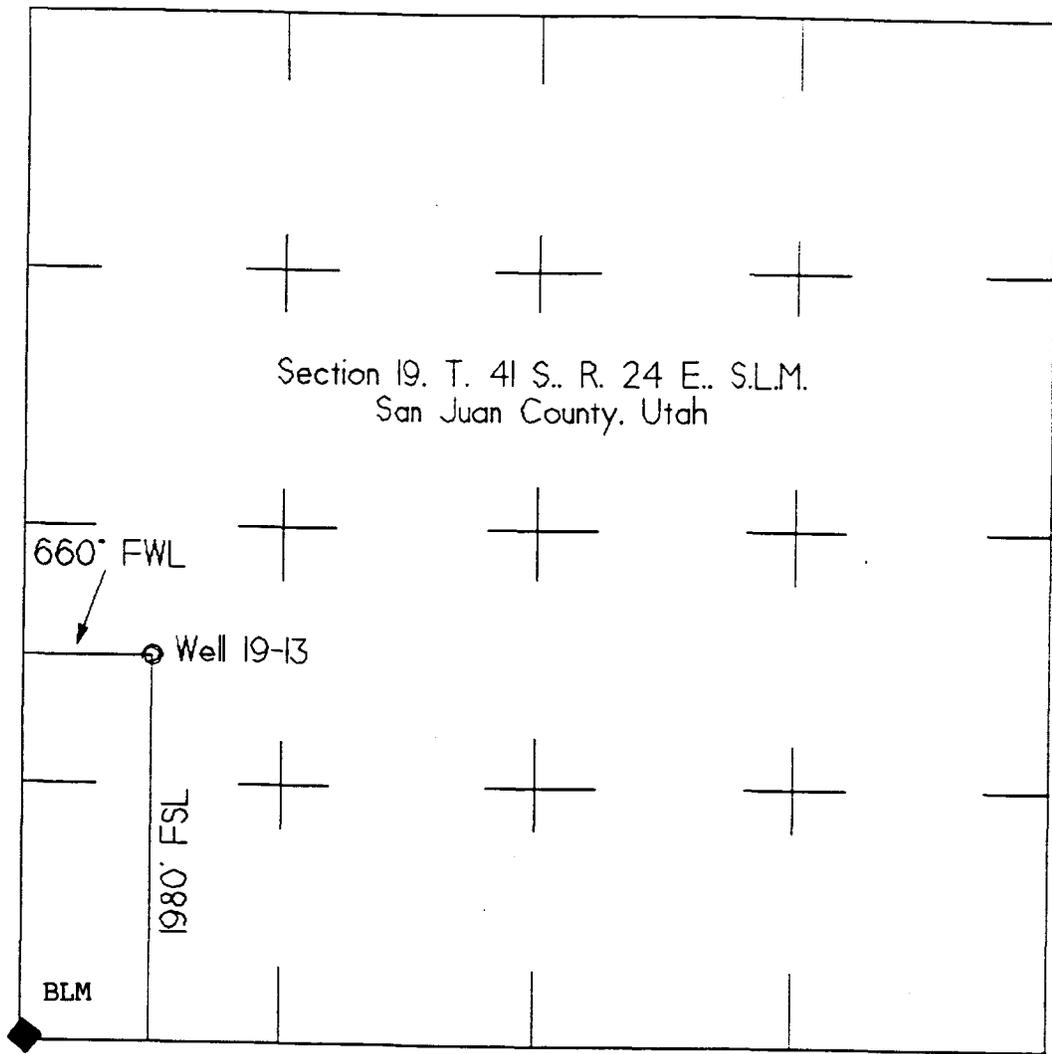
11/8/93
Matthew
649-2-3

*See Instructions On Reverse Side

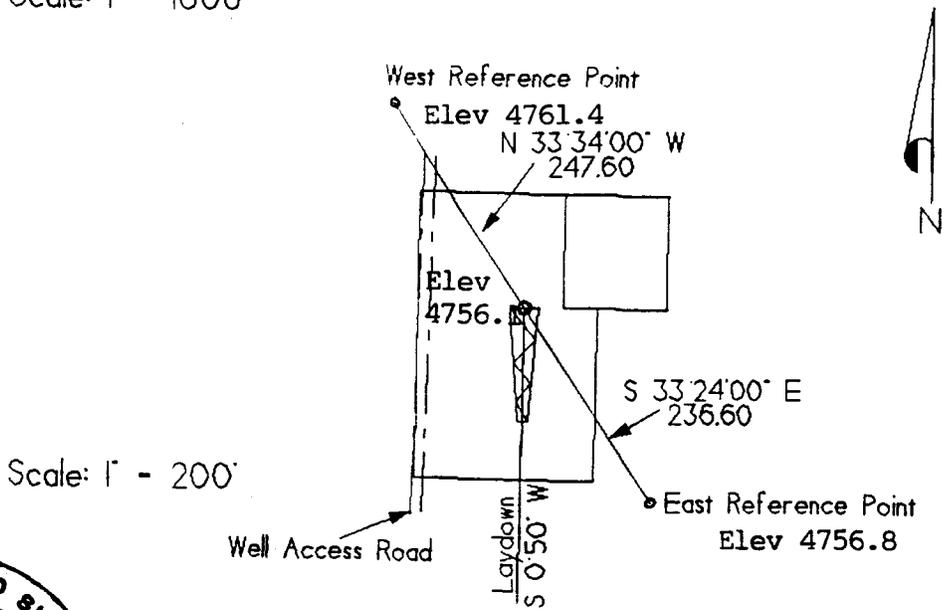
Mobil Oil Co - Well 19-13 Ratherford Unit
SW $\frac{1}{4}$ Section 19, T41S, R24E, SLM, San Juan County, Utah

August 18, 1993
Page 1 of 3

MOBIL OIL COMPANY
Well 19-13
Ratherford Unit, NW/4 SW/4 Section 19



Scale: 1" = 1000'



Scale: 1" = 200'



MANESS AND ASSOCIATES, INC.
SURVEYING

PO BOX 1163
215 N. Linden
Cortez, Colorado
970-8845

AMENDED

SUBMIT IN DUPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 MOBIL EXPLORATION & PRODUCING U.S. AS AGENT FOR MPTM/MEPMA

3. ADDRESS OF OPERATOR
 P O BOX 633 MIDLAND, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 660° FWL 1980° FSL
 At proposed prod. zone
 SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 4 1/2 MILES SOUTH OF MONTEZUMA CREEK, UTAH

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
 660° FROM RATHERFORD UNIT LEASE LINE

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.
 1300° N of 19-12

19. PROPOSED DEPTH
 6000'

20. ROTARY OR CABLE TOOLS
 ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 KB - 4747

22. APPROX. DATE WORK WILL START*
 Nov. 15, 1993

5. LEASE DESIGNATION AND SERIAL NO.
 14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 NAVAJO TRIBAL

7. UNIT AGREEMENT NAME
 RATHERFORD UNIT

8. FARM OR LEASE NAME
 RATHERFORD UNIT

9. WELL NO.
 19-13

10. FIELD AND POOL OR WILDCAT
 GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 SEC. 19 T41S R24E

12. COUNTY OR PARISH | 13. STATE
 SAN JUAN | UT

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	48#	80'	111 ft ³ (Circ. to Surf)
11	8 5/8	24#	1600'	540 ft ³ (Circ to Surf)
7 7/8	5 1/2	15.5#	6000	1403 ft ³ (Circ to Surf)

SEE ATTACHED 8 POINT WELL CONTROL PLAN 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
- 2) Remote controlled choke
- 3) Escape breathing apparatus for all crew members
- 4) H₂S sensors and associated audible/visual alarm(s)
- 5) At least one (1) portable H₂S monitor
- 6) Wind direction indicators
- 7) Caution/danger sign(s) and flag(s)
- 8) Mud-gas separator
- 9) Communication from wellsite

RECEIVED

OCT 12 1993

DIVISION OF
OIL, GAS & MINING

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 Shirley Doad TITLE ENV. & REG TECHNICIAN DATE 10-8-93

(This space for Federal or State office use)

PERMIT NO. 43-037-31719 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 11/8/93

CONDITIONS OF APPROVAL, IF ANY:

Handwritten signature and date: 11/8/93, 649-2-3

*See Instructions On Reverse Side

RADIUS OF EXPOSURE

10ppm Radius of Exposure calculated at 83'.

Maximum releasable H₂S calculated at 0.9 lbs/day, based on maximum measured H₂S concentration in a producing well gas stream (100ppm), and 100 MCFD maximum theoretical gas release volume. Maximum theoretical daily gas volume based on lease COR of 500, and optimistic well test of 200 BOPD.

Mobil Oil Corporation
 Ratherford Unit #19-13
 1980' FSL and 660' FWL
 Section 19, T-41-S, R-24-E
 San Juan County, Utah

Eight Point Drilling Program

1. **ESTIMATED FORMATION TOPS***

Formation	Depth from GL	Drill Depth	Subsea Depth
Chinle	1309	1321	3459
DeChelly SS	2569	2581	2199
Hermosa LS	4474	4486	294
Ismay LS	5359	5371	-591
L. Ismay Ls	5429	5441	-661
Gothic Shale	5449	5461	-681
Desert Creek I	5469	5481	-701
Desert Creek II	5509	5521	-741
Chimney Rock	5629	5641	-861
TD	6000	6012	-1232

* All depths based on ground level of 4747'

2. **NOTABLE ZONES**

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

Possible Water Zone

Possible Coal Zone

Possible Oil or Gas Zones

DeChelly SS 2620'

Desert Creek I 5530'
 Desert Creek II 5600'

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)

The drilling contract has not yet been awarded, thus the exact types of BOP's to be used are not yet known. Examples of a typical BOP and choke manifold are on Page 3. 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.

Mobil Oil Corporation
 Ratherford Unit #19-13
 1980' FSL and 660' FWL
 Section 19, T-41-S, R-24-E
 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'
11"	8-5/8"	24#	USS50	ST&C	New	0000' - 1600'
7-7/8"	5-1/2"	15.5#	USS50	LT&C	New	0000' - 6000'

Surface Casing (0' to 80'): Cement to surface with 111 ft³. Volume calculated with 100% excess. Ready-Mix cement.

Intermediate Casing (0' to 1600'): Cement to surface with 540 ft³. Volume calculated with 30% excess. Lead with slurry of 65:35.6 "B" Poz + 2% CaCl₂. Tail with Class "B" + 2% CaCl₂. Total of 12 centralizers and one stop collar. One on the shoe joint and one every third collar to 200' from surface.

Production Casing (0' to 6000'): Cement to surface with 1403 ft³. Volume calculated with 50% excess. Lead with slurry of 50/50 "G" Poz + 8% Gel + .75% Halad-344. Tail with slurry of Premium Cement + 0.05 gal/sx D-AIR-3 + 2.0 gal/sx Latex 2000 + 0.22 gal/sx 434B + 0.5% CFR-3 (Weight/Yield = 15.6/1.18). Total of 17 centralizers and 3 stop collars. One centralizer on the float shoe then every third 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	8.4 - 8.8	35 - 45	NC
1600' - 5000'	FW/PHPA	9.0 - 11.5	36 - 48	NC
5000' - 6000'	FW/PHPA	10 - 11.5	36 - 48	10 - 15

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

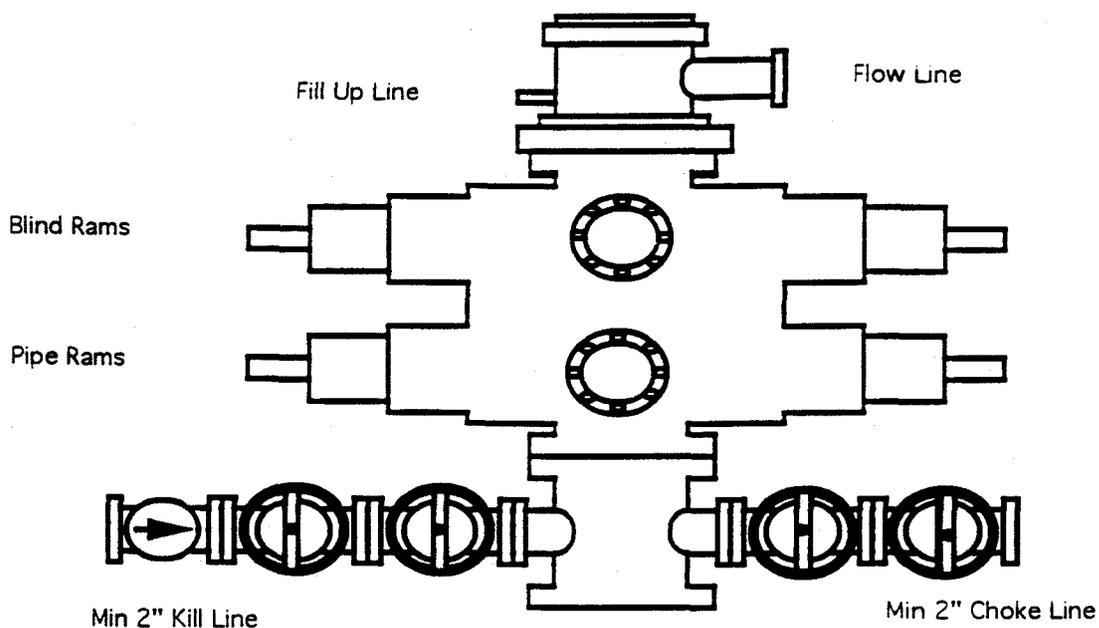
Possible water flows in the DeChelly formation may be encountered.

8. MISCELLANEOUS

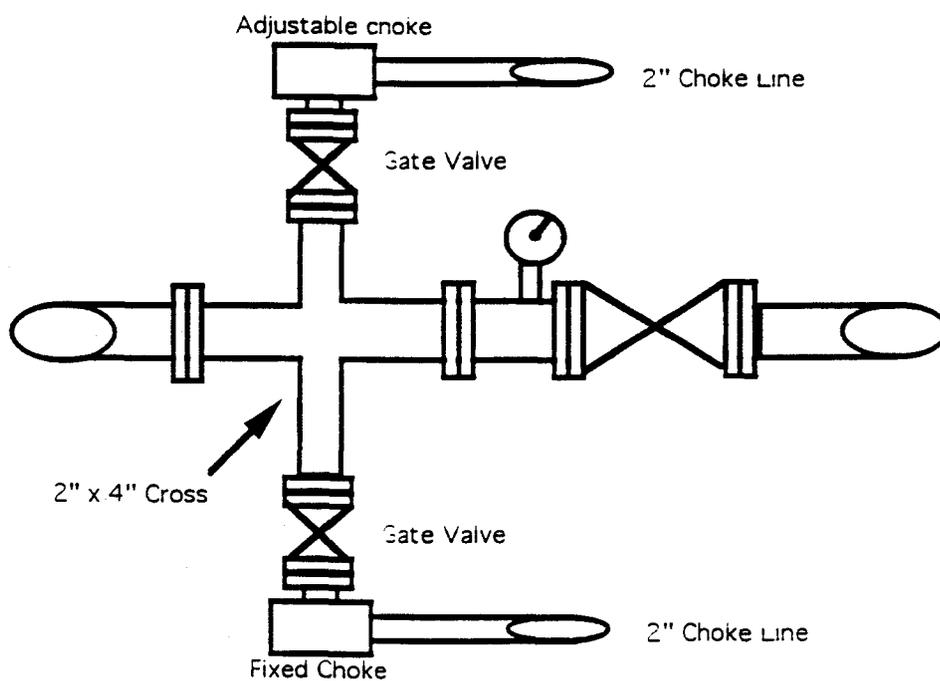
The anticipated spud date is November, 1993. It is expected to take +/- 24 days to drill the well and 10 days to complete the well.

Mobil Oil Corporation
Ratherford Unit #19-13
Sec 19, T-41-S, R-24-E
660' FWL and 1980' FSL
San Juan Co., Utah

Bop Equipment
11" x 3000 psi Working Pressure

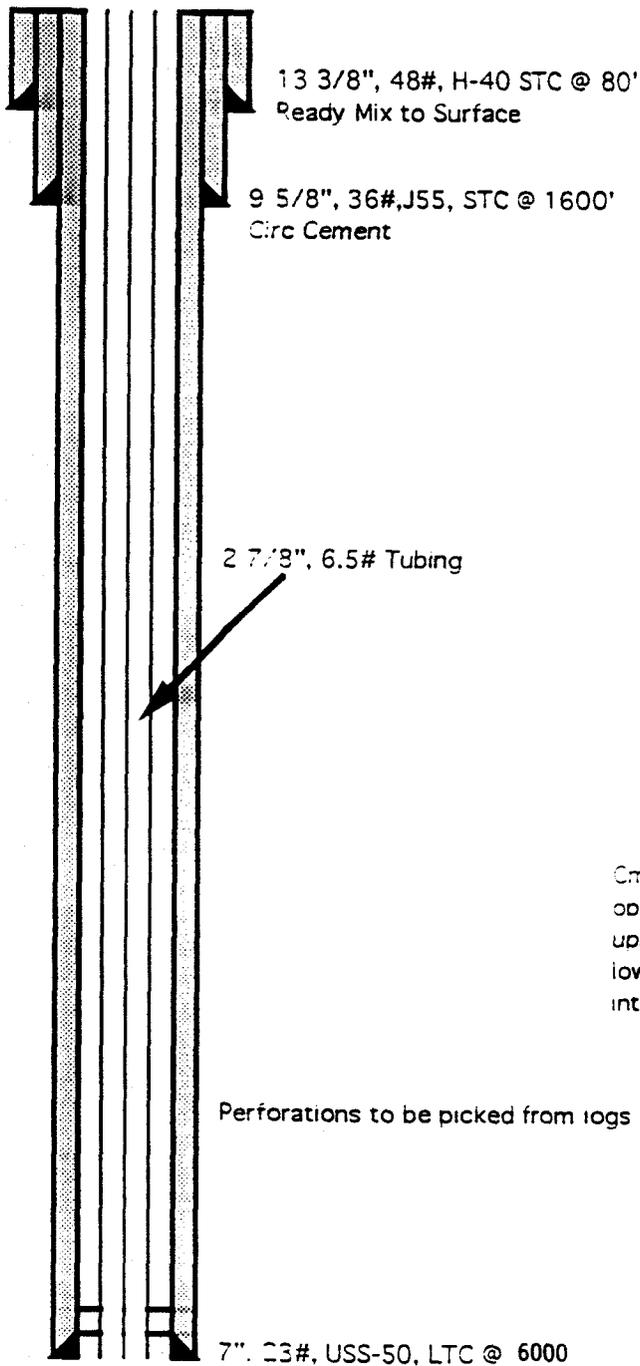


Choke Manifold
3000 psi



Mobil Oil Corporation
 Ratherford Unit #19-13
 Sec 19, T-41-S, R-24-E
 660' FWL and 1980' FSL
 San Juan Co., Utah

Proposed Completion



Proposed P&A

Dry Hole Marker
 50' Cmt plug
 Surface Cap 3' below ground

Casedole plugs 100'
 above & 50' below
 casing shoe

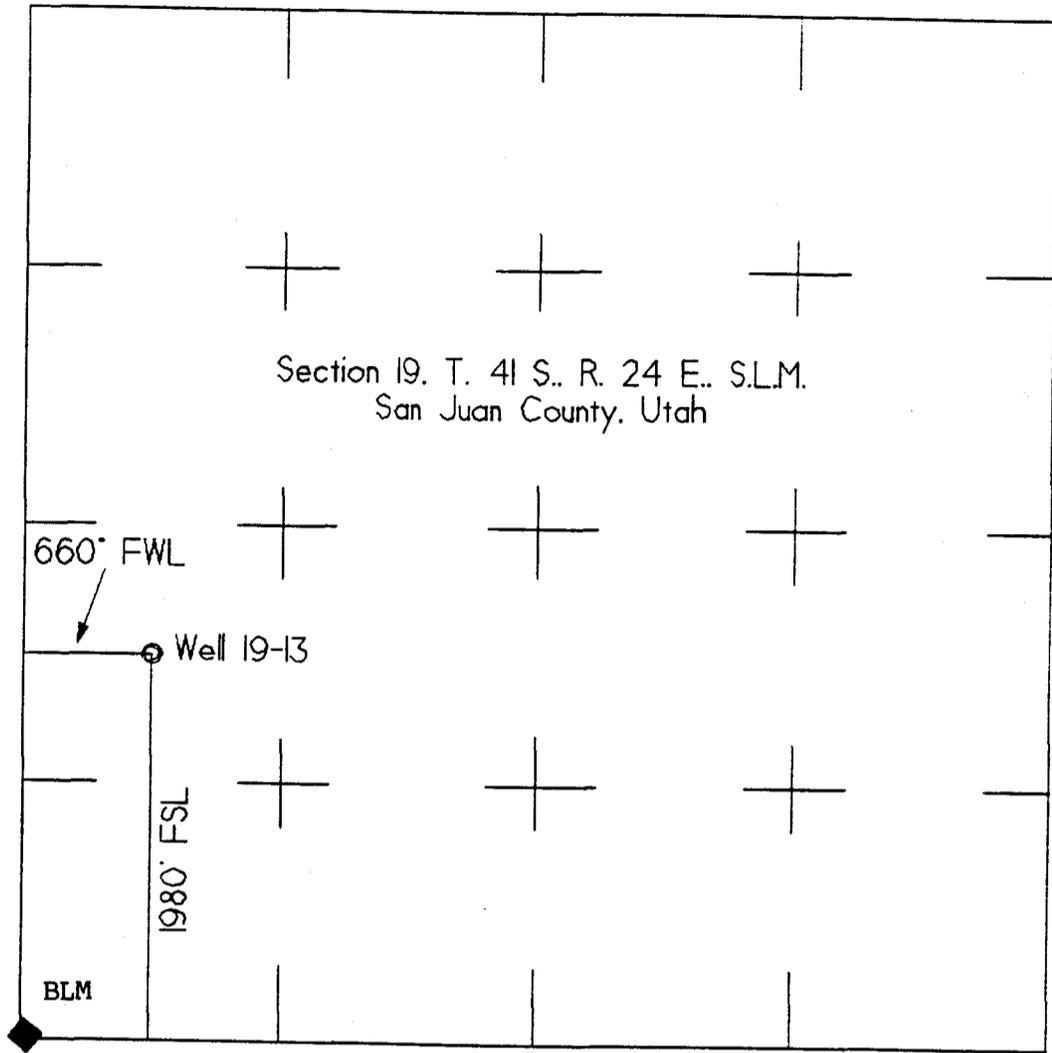
Cmt plugs placed opposite all
 open perforations. 50' above
 uppermost & 50' below
 lowermost perforations in each
 interval

7", 23#, USS-50, LTC @ 6000

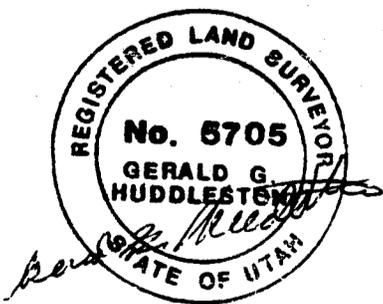
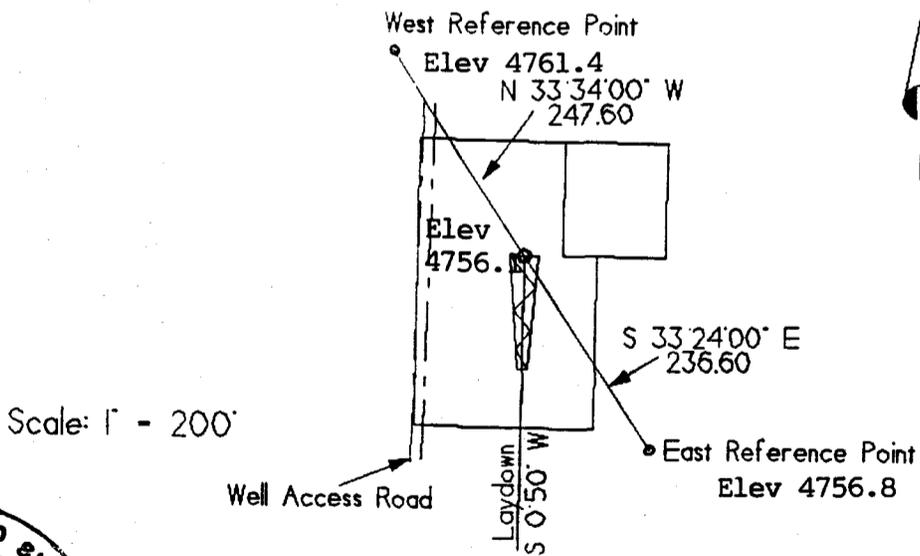
Mobil Oil Co - Well 19-13 Ratherford Unit
SW $\frac{1}{4}$ Section 19, T41S, R24E, SLM, San Juan County, Utah

August 18, 1993
Page 1 of 3

MOBIL OIL COMPANY
Well 19-13
Ratherford Unit. NW/4 SW/4 Section 19



Scale: 1" = 1000'



MANESS AND ASSOCIATES, INC.
SURVEYING

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215 N. Linden
Cortez, Colorado
565-8845

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

1. DIRECTIONS & EXISTING ROADS

From the Ratherford Unit Field Office, go W 0.2 mi. on a paved field road. Then turn left and go SW 1.7 mi. on paved BIA Road N-35. Then turn sharply right and go NW 0.7 mi. on dirt County Road 410. Then turn right and go NE 0.4 mi. on a dirt field road to the 19-13 well. The latter road crosses the west side of the wellpad.

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

2. ROAD TO BE BUILT

No road will be built or upgraded since an existing field road crosses the pad. Traffic will still cross the pad during drilling and production.

3. EXISTING WELLS

There are seventeen oil, eleven injection, and one P&A wells within a mile radius. All are shown on an attached map. There are no water or gas wells. All of the wells within a $\approx 1,475'$ radius are within the Ratherford Unit.

4. PROPOSED PRODUCTION FACILITIES

Production will be piped via a $\approx 1000'$ long surface (buried at road crossing) flowline north along the west side of the road to an existing header. No new tanks are needed. If the well is converted to an injector, then a $\approx 135'$ long buried injection line will be laid north along the west

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

side of the same road to an existing injection line. Surface disturbance will be limited to that necessary for pipeline construction. All fill material will be removed from all drainages and the drainages returned to their natural form.

The ≈ 3.5 " OD coiled steel tubing flowline will operate at ≈ 200 psi, be tested to ≈ 5800 psi, has a burst rating of ≈ 7200 psi, and will be laid on the surface except at road crossings. The ≤ 6 " 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, will be internally coated or lined, and will be buried at least 30" deep.

An above ground 3 phase 25kv $\approx 800'$ long raptor proof powerline will be built south to an existing powerline at the 19-14 well.

Above ground structures and equipment (only a pump jack 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 a BLM (San Juan RA of the Moab District) artesian well in NENW 27-40s-23e. Mobil has permission from the Monticello BLM office.

6. CONSTRUCTION MATERIALS & METHODS

The top 10" of soil and brush will be stripped and stored east of the pad and south of the pit. A 24" high berm will be built along the fill (east) side of the pad. A minimum 12 mil plastic liner will be installed in the

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

reserve pit. Due to its location in a sandy area, the wellpad surface may be rocked. Rock surfacing material will be bought from a private source. No material will be taken from public land.

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 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 is 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.

Mobil Exploration & Producing U.S. Inc.
 Ratherford Unit 19-13
 1980' FSL & 660' FWL
 Sec. 19, T. 41 S., R. 24 E.
 San Juan County, Utah

10. RECLAMATION

Reclamation starts once the reserve pit is dry. It usually takes a year for a reserve pit to fully evaporate. Rock surfacing material will be removed before starting reclamation. 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 shown below and the seed covered with a drag. If the well is a producer, then the reserve pit and any other areas not needed for workovers will be reclaimed in the same manner.

<i>SPECIES FOR ROAD & WELLPAD</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 road will be blocked, water barred, and reclaimed in the same manner as the wellsite if it is no longer needed for access to adjacent wells (e.g., 19-14). 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

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

The injection pipeline will be seeded (below) with a slightly different seed mix, but otherwise reclaimed in the same manner as the wellpad and road. Berms will be built at the top of all slopes and road or trail crossings.

<i>SPECIES FOR PIPELINE</i>	<i>lbs/acre PLS</i>
Indian ricegrass	3
Giant dropseed	1
Sand dropseed	1
Mammoth wild rye	3
Four wing saltbush	3

11. SURFACE OWNER

The well, new 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 Branch of Natural Resources, P.O. Box 966, Shiprock, NM 87420. Call Randy Cornett at (505) 368-4427.

12. OTHER INFORMATION

The nearest hospital is a \approx 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 1-800-332-1911 from anywhere in San Juan County, Ut. The closest medically equipped helicopter is in Farmington NM. Farmington hospital phone number is (505) 325-5011.

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

13. REPRESENTATION

Anyone having questions concerning the APD should contact:

Shirley Todd, 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) 984-8120

The field representative will be:

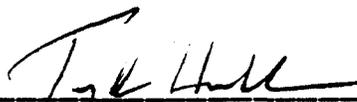
Ed Barber, Production Foreman
Mobil Exploration & Producing U. S. Inc.
P.O. Drawer G
Cortez, Co. 81321
(303) 565-9049

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 subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

provisions of 18 U.S.C. 1001 for the filing of a false statement.



for Diane Klancher
Environmental Regulatory/LP Supervisor
Environmental & Regulatory Dept.
Mobil Exploration & Producing U. S. Inc.

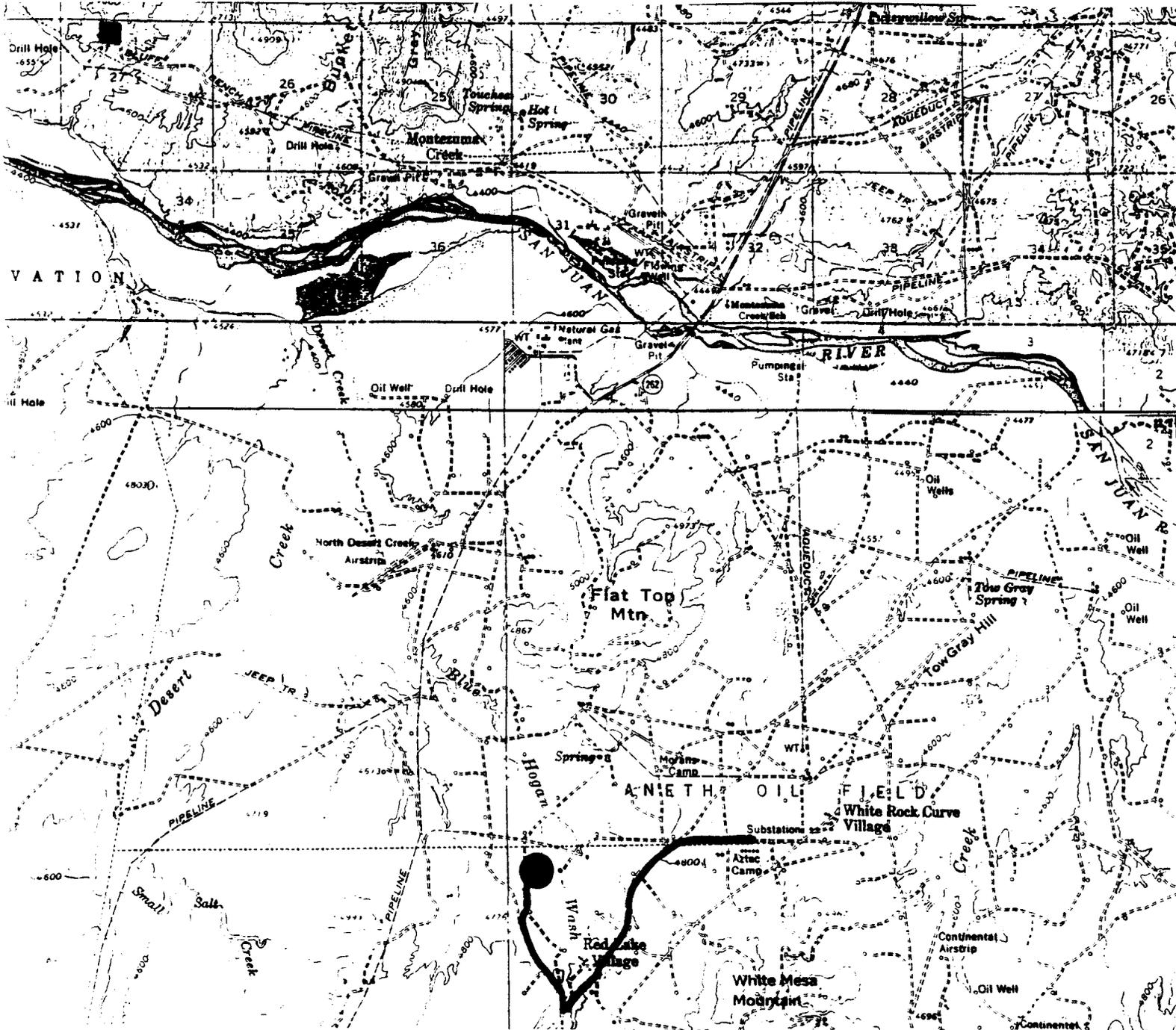
9-23-93
Date

RECEIVED

OCT 12 1993

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

DIVISION OF
OIL, GAS & MINING



Proposed Well: ●

Access Road: ~

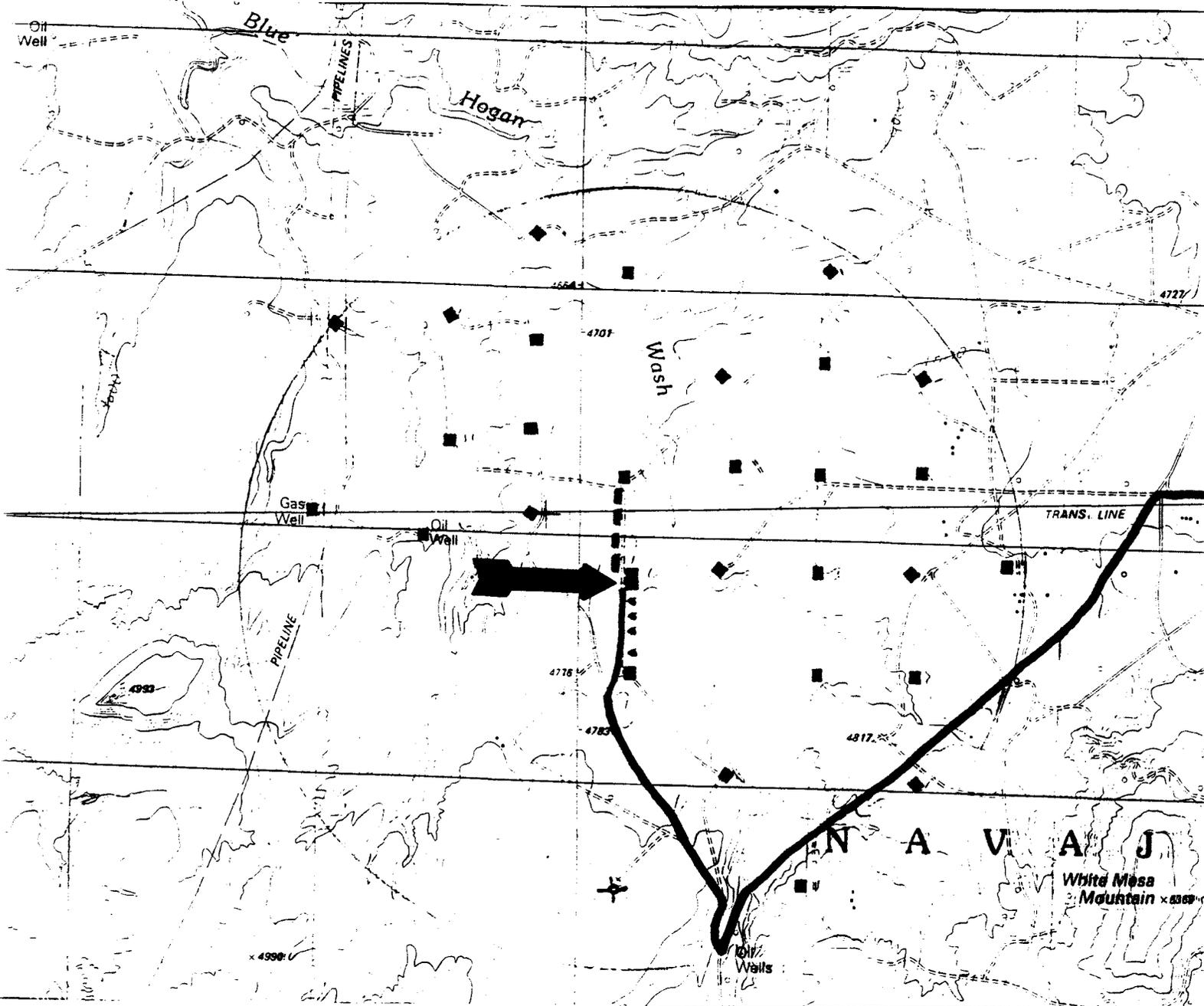
Water Source: ■

RECEIVED

OCT 12 1993

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

DIVISION OF
OIL, GAS & MINING



Proposed 19-13 Well: 

Existing Injection Well: 

Proposed Pipelines: 

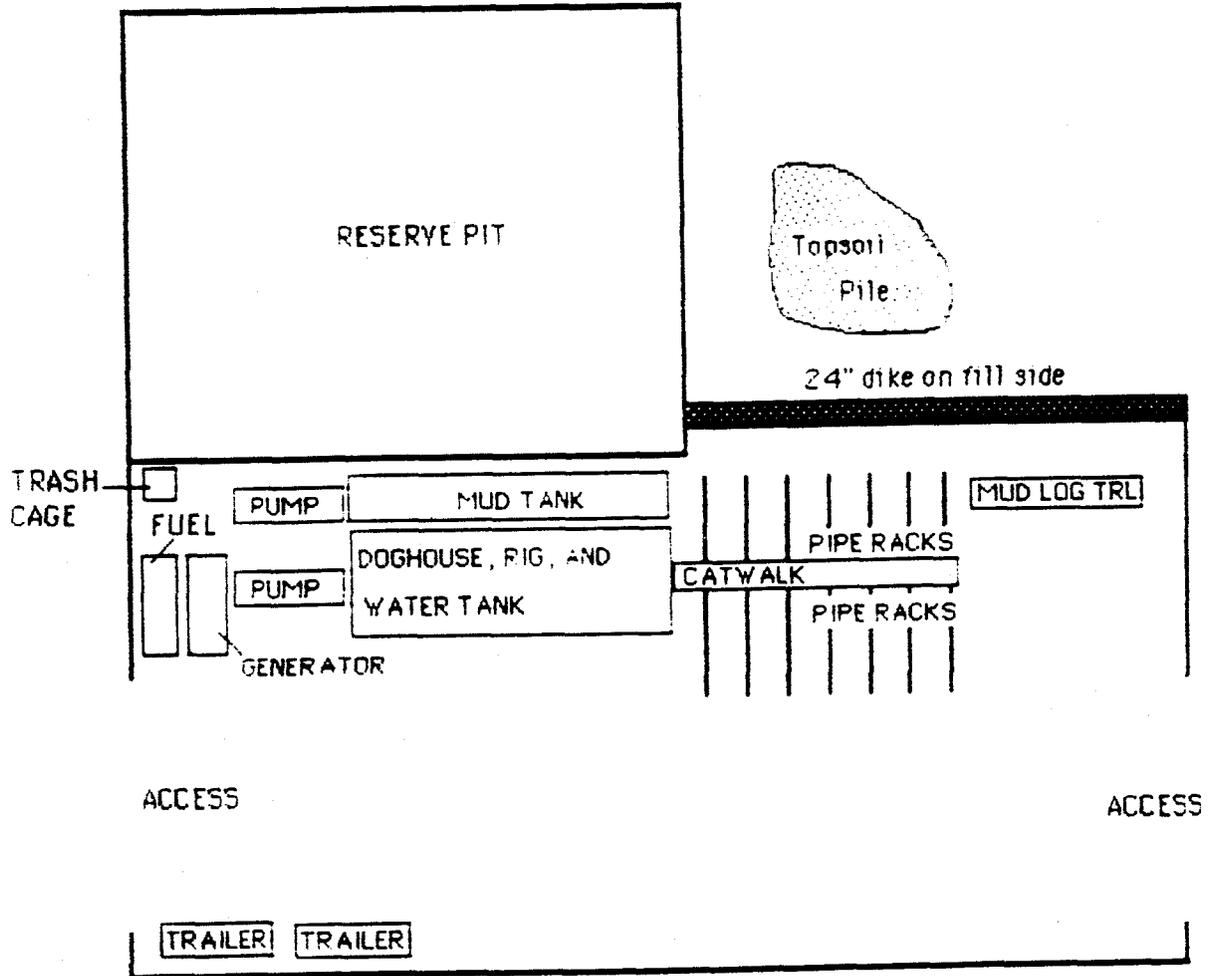
Existing Oil Well: 

Proposed Powerline: 

Access Road: 

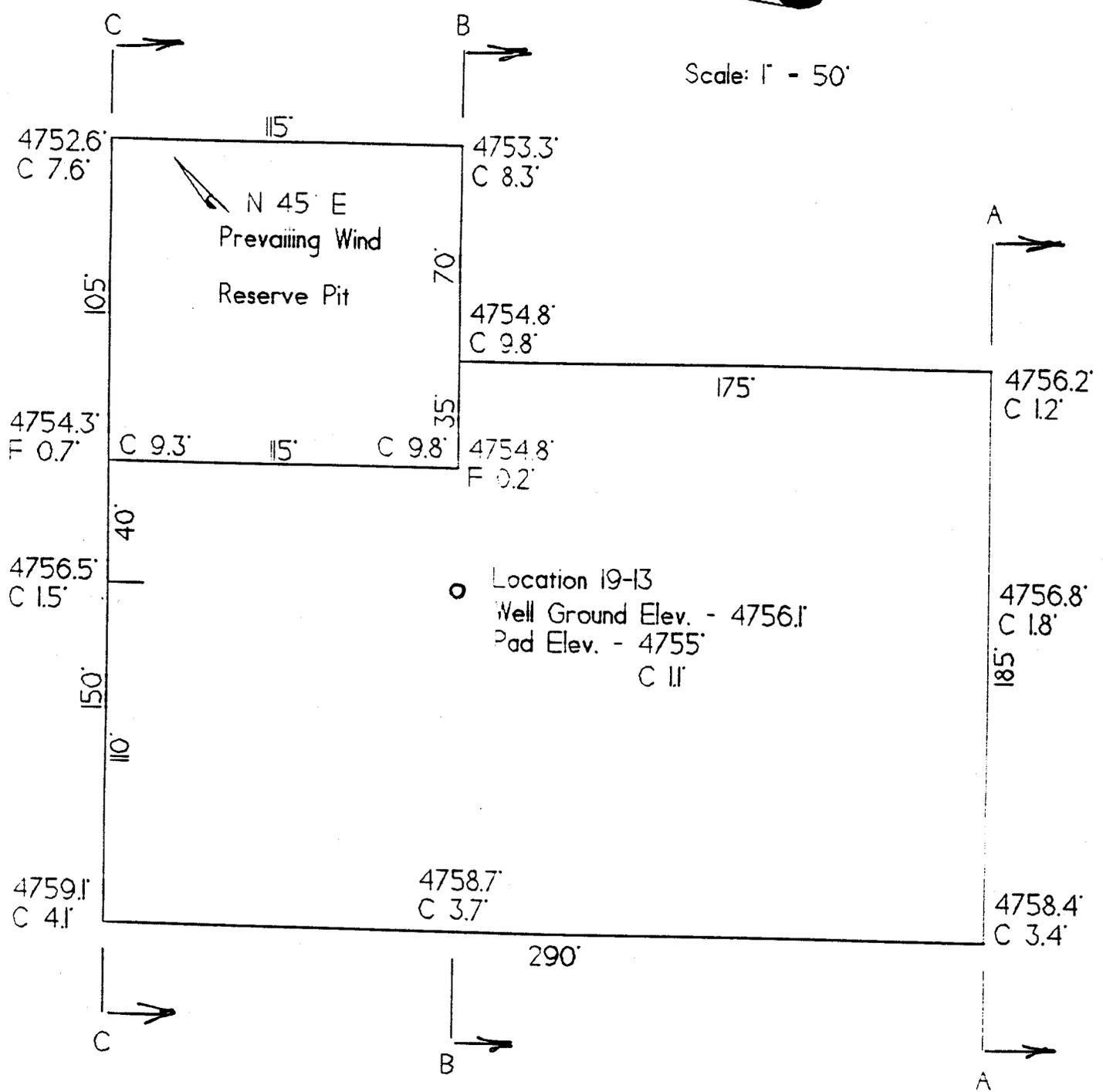
PERMITS WEST, INC.
PROVIDING PERMITS for the ENERGY INDUSTRY

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah





Scale: 1" = 50'



See page 3 for cross sections

MANESS AND ASSOCIATES, INC.
SURVEYING

PO BOX 1163
215 N. Linden
Cortez, Colorado
565-8845

4670

Proposed Pad 4755

4750

Section A-A

4760

Ground Elev. 4756.1

4750

2:1

Reserve

2:1

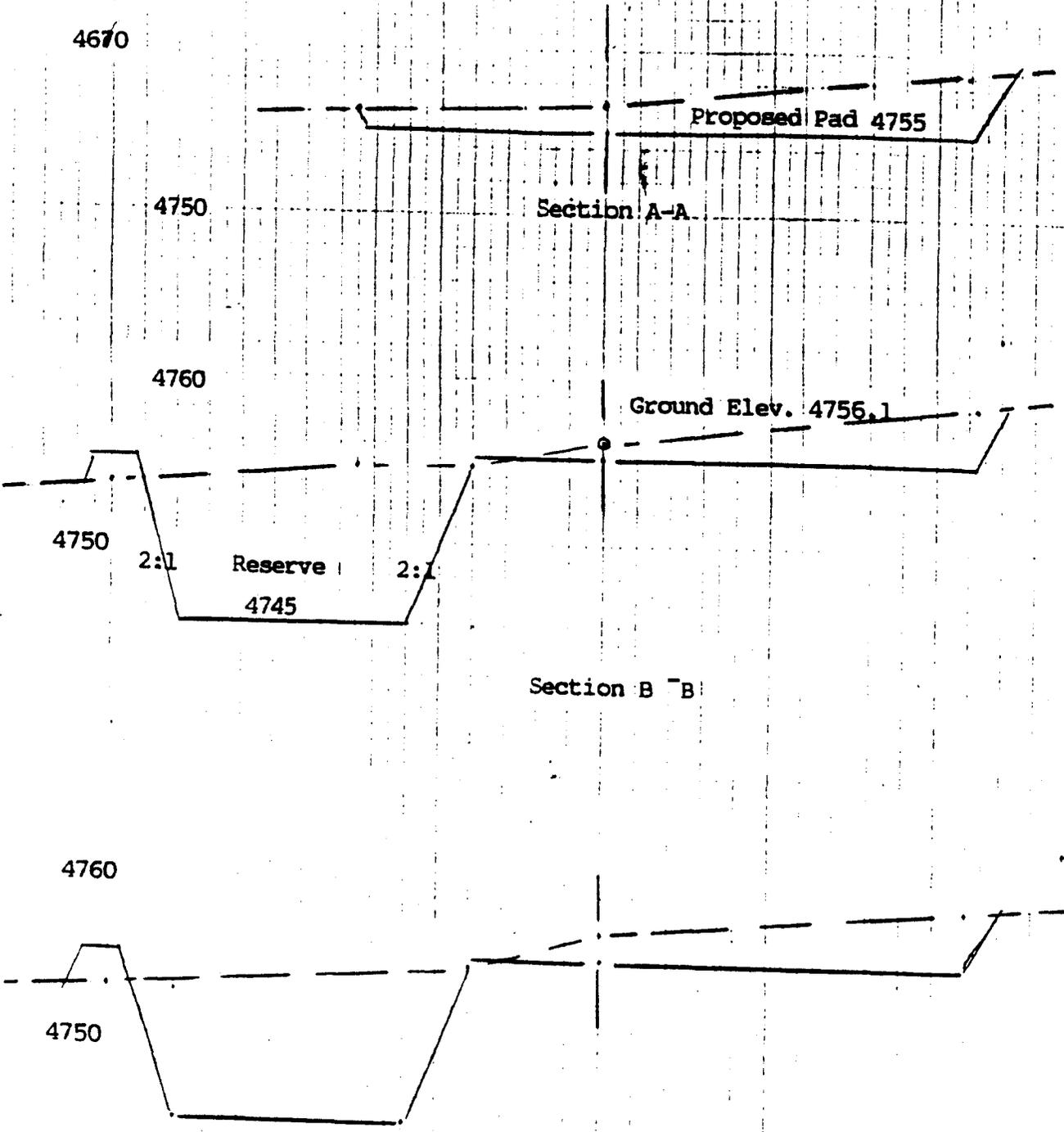
4745

Section B-B

4760

4750

Section C-C



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

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.
19-13

9. API Well No.
NA

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 OIL CORPORATION

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)
660' FWL, 1980' FSL SEC.19, T41S, R24E

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input 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 type="checkbox"/> Other _____
	<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.)*

AMEND SURFACE USAGE PLAN FOR APD.
5. WATER SUPPLY - WATER WILL BE TRUCKED FROM PRIVATE LAND.

RECEIVED

OCT 18 1993

10-19-93
Shirley Todd

DIVISION OF
OIL, GAS & MINING

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

Signed Shirley Todd SHIRLEY TODD Title ENV. & REG. TECHNICIAN Date 10-12-93

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
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

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

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

SUBMIT IN TRIPLICATE

8. Well Name and No.
19-13

9. API Well No.
NA

10. Field and Pool, or Exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN, UT

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
MOBIL OIL CORPORATION

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)
660' FWL, 1980' FSL SEC.19, T41S, R24E

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input 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 type="checkbox"/> Other _____
	<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.)*

**AMEND SURFACE USAGE PLAN FOR APD.
5. WATER SUPPLY - WATER WILL BE TRUCKED FROM PRIVATE LAND.**

RECEIVED

OCT 18 1993

DIVISION OF
OIL, GAS & MINING

10-19-93
Shirley Todd

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

Signed Shirley Todd SHIRLEY TODD Title ENV. & REG. TECHNICIAN

Date 10-12-93

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

RADIUS OF EXPOSURE

10ppm Radius of Exposure calculated at 83'.

Maximum releasable H₂S calculated at 0.9 lbs/day, based on maximum measured H₂S concentration in a producing well gas stream (100ppm), and 100 MCFD maximum theoretical gas release volume. Maximum theoretical daily gas volume based on lease GOR of 500, and optimistic well test of 200 BOPD.

Mobil Oil Corporation
 Rutherford Unit #19-13
 1980' FSL and 660' FWL
 Section 19, T-41-S, R-24-E
 San Juan County, Utah

Eight Point Drilling Program

1. ESTIMATED FORMATION TOPS*

Formation	Depth from GL	Drill Depth	Subsea Depth
Chinle	1309'	1321'	3459'
DeChelly SS	2569'	2581'	2199'
Hermosa LS	4474'	4486'	294'
Jarvis LS	5359'	5371'	-591'
L. Jarvis Ls	5429'	5441'	-661'
Gothic Shale	5449'	5461'	-681'
Desert Creek I	5469'	5481'	-701'
Desert Creek II	5509'	5521'	-741'
Chimney Rock	5629'	5641'	-861'
TD	6000'	6012'	-1232'

* All depths based on ground level of 4756.1

2. NOTABLE ZONES

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

Possible Water Zone

Possible Coal Zone

Possible Oil or Gas Zones

DeChelly SS 2520'

Desert Creek I 5530'

Desert Creek II 5600'

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)

The drilling contract has not yet been awarded, thus the exact types of BOP's to be used are not yet known. Examples of a typical BOP and choke manifold are on Page 3. 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. EOP 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.

Mobil Oil Corporation
 Ratherford Unit #19-13
 1980' FSL and 660' FWL
 Section 19, T-41-S, R-24-E
 San Juan County, Utah

Eight Point Drilling Program

1. **ESTIMATED FORMATION TOPS***

Formation	Depth from GL	Drill Depth	Subsea Depth
Chinle	1309	1321	3459
DeChelly SS	2569	2581	2199
Hermosa LS	4474	4486	294
Ismay LS	5359	5371	-591
L. Ismay Ls	5429	5441	-661
Gothic Shale	5449	5461	-681
Desert Creek I	5469	5481	-701
Desert Creek II	5509	5521	-741
Chimney Rock	5629	5641	-861
TD	6000	6012	-1232

* All depths based on ground level of 4747'

2. **NOTABLE ZONES**

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

Possible Water Zone

Possible Coal Zone

Possible Oil or Gas Zones

DeChelly SS 2620'

Desert Creek I 5530'
 Desert Creek II 5600'

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Mobil Oil Corporation
 Ratherford Unit #19-13
 1980' FSL and 660' FWL
 Section 19, T-41-S, R-24-E
 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'
11"	8-5/8"	24#	USS50	ST&C	New	0000' - 1600'
7-7/8"	5-1/2"	15.5#	USS50	LT&C	New	0000' - 6000'

Surface Casing (0' to 80'): Cement to surface with 111 ft³. Volume calculated with 100% excess. Ready-Mix cement.

Intermediate Casing (0' to 1600'): Cement to surface with 540 ft³. Volume calculated with 30% excess. Lead with slurry of 65:35.6 "B" Poz + 2% CaCl₂. Tail with Class "B" + 2% CaCl₂. Total of 12 centralizers and one stop collar. One on the shoe joint and one every third collar to 200' from surface.

Production Casing (0' to 6000'): Cement to surface with 1403 ft³. Volume calculated with 50% excess. Lead with slurry of 50/50 "G" Poz + 8% Gel + .75% Halad-344. Tail with slurry of Premium Cement + 0.05 gal/sx D-AIR-3 + 2.0 gal/sx Latex 2000 + 0.22 gal/sx 434B + 0.5% CFR-3 (Weight/Yield = 15.6/1.18). Total of 17 centralizers and 3 stop collars. One centralizer on the float shoe then every third 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	8.4 - 8.8	35 - 45	NC
1600' - 5000'	FW/PHPA	9.0 - 11.5	36 - 48	NC
5000' - 6000'	FW/PHPA	10 - 11.5	36 - 48	10 - 15

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

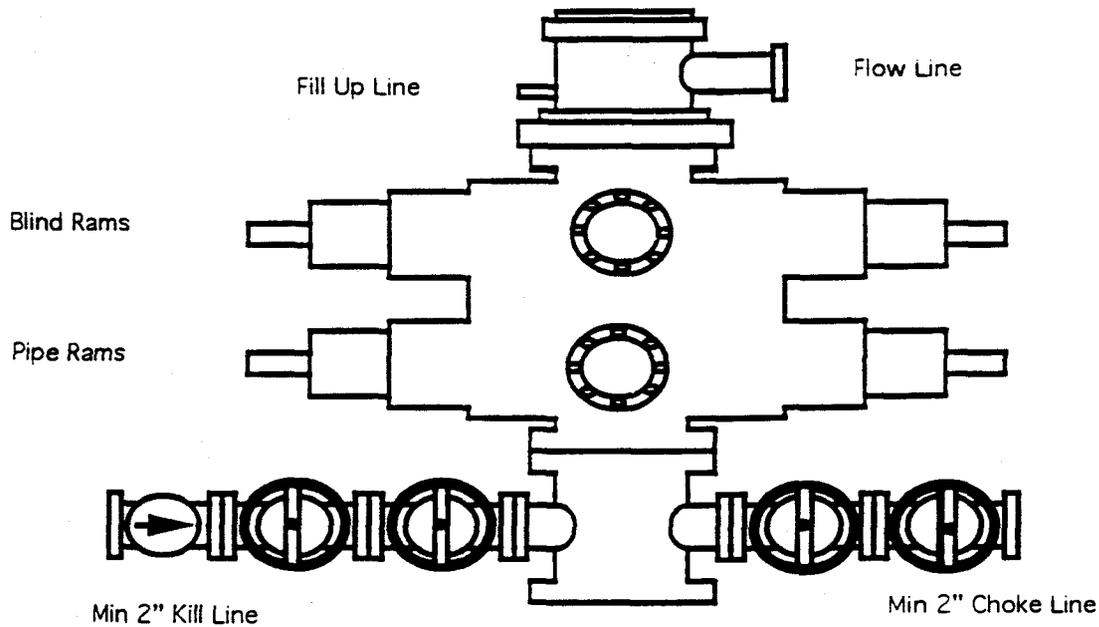
Possible water flows in the DeChelly formation may be encountered.

8. MISCELLANEOUS

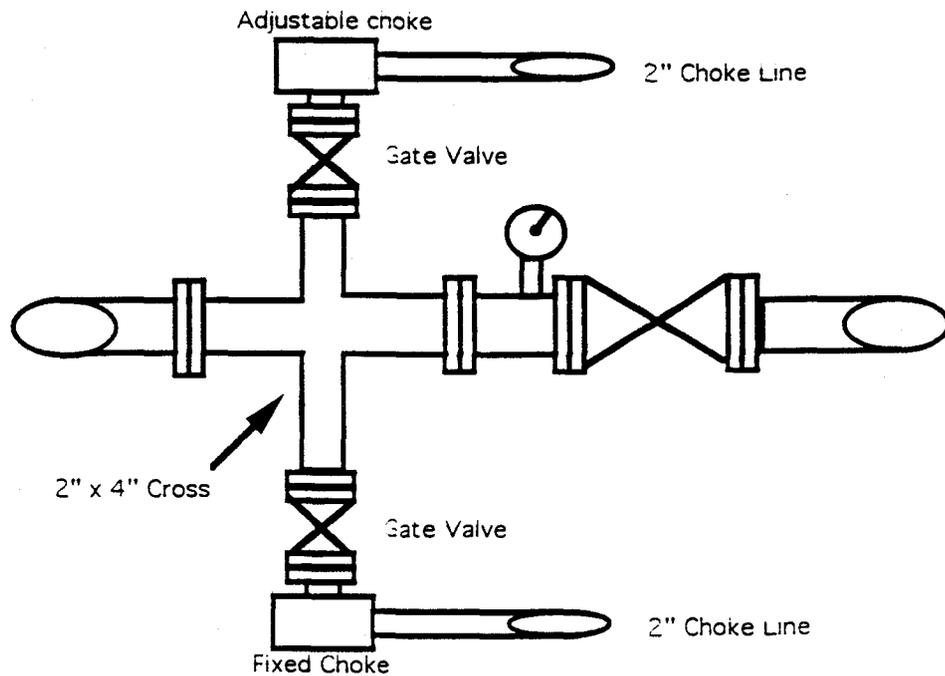
The anticipated spud date is November, 1993. It is expected to take +/- 24 days to drill the well and 10 days to complete the well.

Mobil Oil Corporation
Ratherford Unit #19-13
Sec 19, T-41-S, R-24-E
660' FWL and 1980' FSL
San Juan Co., Utah

Bop Equipment
11" x 3000 psi Working Pressure

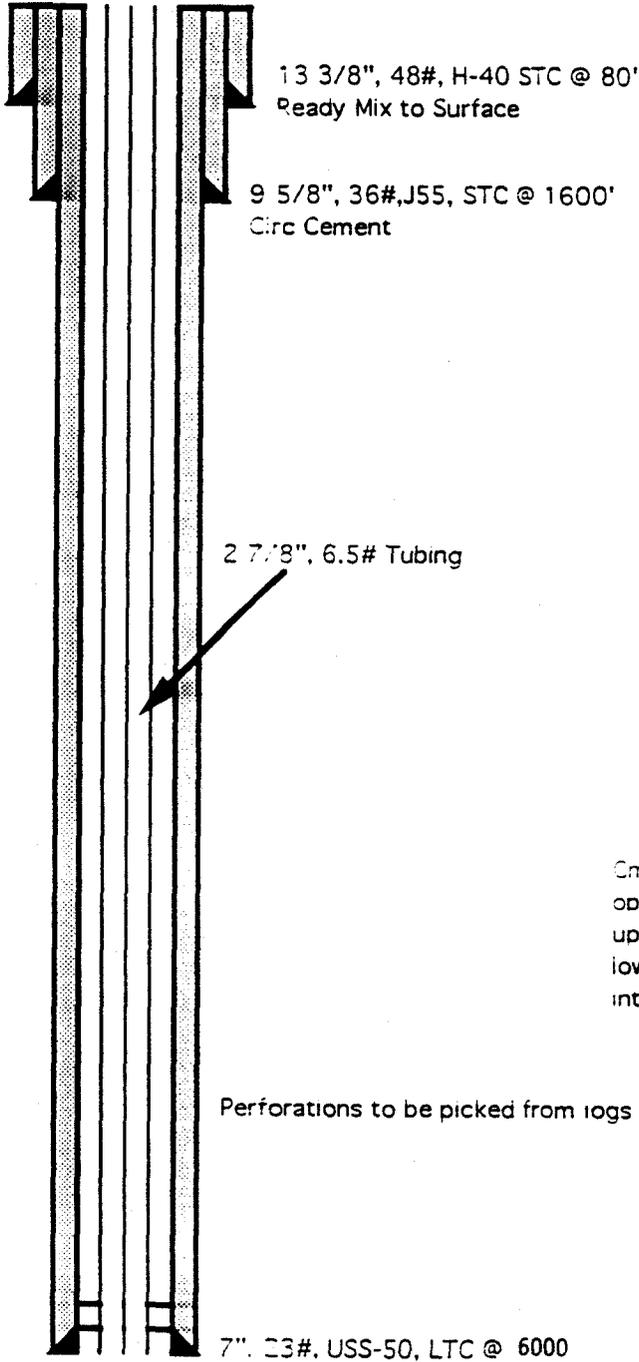


Choke Manifold
3000 psi

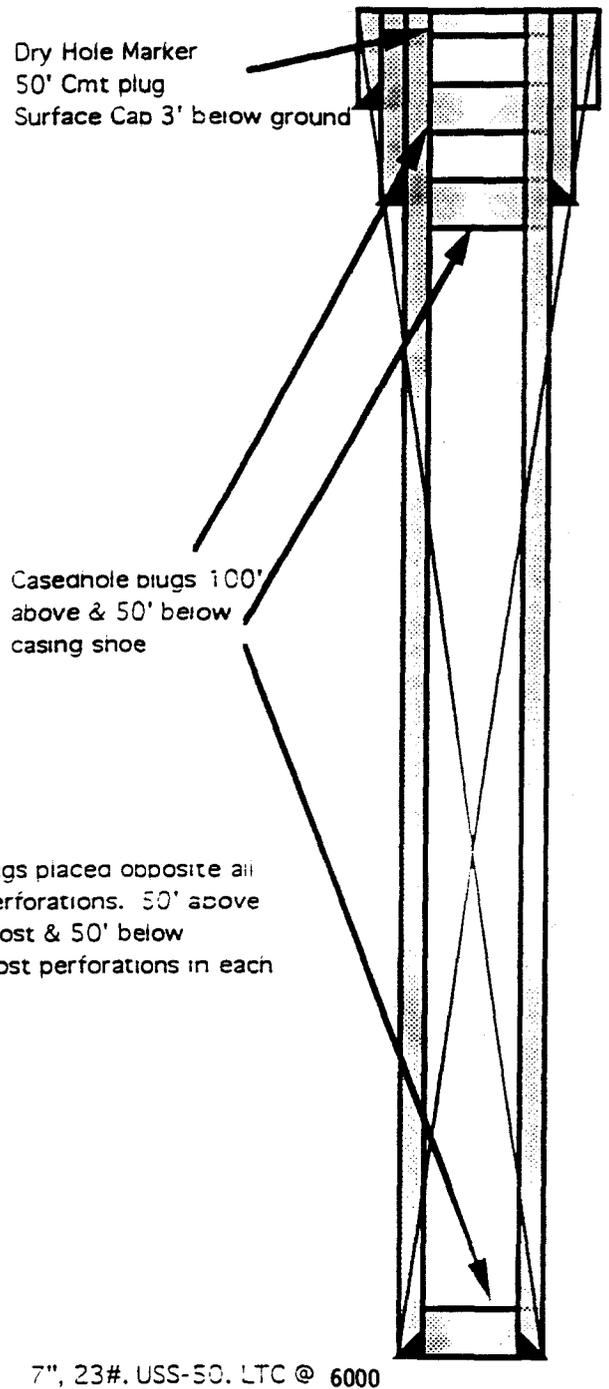


Mobil Oil Corporation
Ratherford Unit #19-13
Sec 19, T-41-S, R-24-E
660' FWL and 1980' FSL
San Juan Co., Utah

Proposed Completion



Proposed P&A



Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

1. DIRECTIONS & EXISTING ROADS

From the Ratherford Unit Field Office, go W 0.2 mi. on a paved field road. Then turn left and go SW 1.7 mi. on paved BIA Road N-35. Then turn sharply right and go NW 0.7 mi. on dirt County Road 410. Then turn right and go NE 0.4 mi. on a dirt field road to the 19-13 well. The latter road crosses the west side of the wellpad.

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

2. ROAD TO BE BUILT

No road will be built or upgraded since an existing field road crosses the pad. Traffic will still cross the pad during drilling and production.

3. EXISTING WELLS

There are seventeen oil, eleven injection, and one P&A wells within a mile radius. All are shown on an attached map. There are no water or gas wells. All of the wells within a $\approx 1,475'$ radius are within the Ratherford Unit.

4. PROPOSED PRODUCTION FACILITIES

Production will be piped via a $\approx 1000'$ long surface (buried at road crossing) flowline north along the west side of the road to an existing header. No new tanks are needed. If the well is converted to an injector, then a $\approx 135'$ long buried injection line will be laid north along the west

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

side of the same road to an existing injection line. Surface disturbance will be limited to that necessary for pipeline construction. All fill material will be removed from all drainages and the drainages returned to their natural form.

The ≈ 3.5 " OD coiled steel tubing flowline will operate at ≈ 200 psi, be tested to ≈ 5800 psi, has a burst rating of ≈ 7200 psi, and will be laid on the surface except at road crossings. The ≤ 6 " 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, will be internally coated or lined, and will be buried at least 30" deep.

An above ground 3 phase 25kv $\approx 800'$ long raptor proof powerline will be built south to an existing powerline at the 19-14 well.

Above ground structures and equipment (only a pump jack 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 a BLM (San Juan RA of the Moab District) artesian well in NENW 27-40s-23e. Mobil has permission from the Monticello BLM office.

6. CONSTRUCTION MATERIALS & METHODS

The top 10" of soil and brush will be stripped and stored east of the pad and south of the pit. A 24" high berm will be built along the fill (east) side of the pad. A minimum 12 mil plastic liner will be installed in the

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
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San Juan County, Utah

reserve pit. Due to its location in a sandy area, the wellpad surface may be rocked. Rock surfacing material will be bought from a private source. No material will be taken from public land.

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 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 is 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.

Mobil Exploration & Producing U.S. Inc.
 Rutherford Unit 19-13
 1980' FSL & 660' FWL
 Sec. 19, T. 41 S., R. 24 E.
 San Juan County, Utah

10. RECLAMATION

Reclamation starts once the reserve pit is dry. It usually takes a year for a reserve pit to fully evaporate. Rock surfacing material will be removed before starting reclamation. 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 shown below and the seed covered with a drag. If the well is a producer, then the reserve pit and any other areas not needed for workovers will be reclaimed in the same manner.

<i>SPECIES FOR ROAD & WELLPAD</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 road will be blocked, water barred, and reclaimed in the same manner as the wellsite if it is no longer needed for access to adjacent wells (e.g., 19-14). 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

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

The injection pipeline will be seeded (below) with a slightly different seed mix, but otherwise reclaimed in the same manner as the wellpad and road. Berms will be built at the top of all slopes and road or trail crossings.

<i>SPECIES FOR PIPELINE</i>	<i>lbs/acre PLS</i>
Indian ricegrass	3
Giant dropseed	1
Sand dropseed	1
Mammoth wild rye	3
Four wing saltbush	3

11. SURFACE OWNER

The well, new 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 Branch of Natural Resources, P.O. Box 966, Shiprock, NM 87420. Call Randy Cornett at (505) 368-4427.

12. OTHER INFORMATION

The nearest hospital is a \approx 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 1-800-332-1911 from anywhere in San Juan County, Ut. The closest medically equipped helicopter is in Farmington NM. Farmington hospital phone number is (505) 325-5011.

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

13. REPRESENTATION

Anyone having questions concerning the APD should contact:

Shirley Todd, 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) 984-8120

The field representative will be:

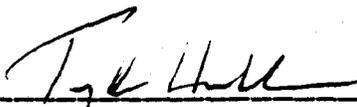
Ed Barber, Production Foreman
Mobil Exploration & Producing U. S. Inc.
P.O. Drawer G
Cortez, Co. 81321
(303) 565-9049

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 subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

provisions of 18 U.S.C. 1001 for the filing of a false statement.


for Diane Klancher
Environmental Regulatory/LP Supervisor
Environmental & Regulatory Dept.
Mobil Exploration & Producing U. S. Inc.

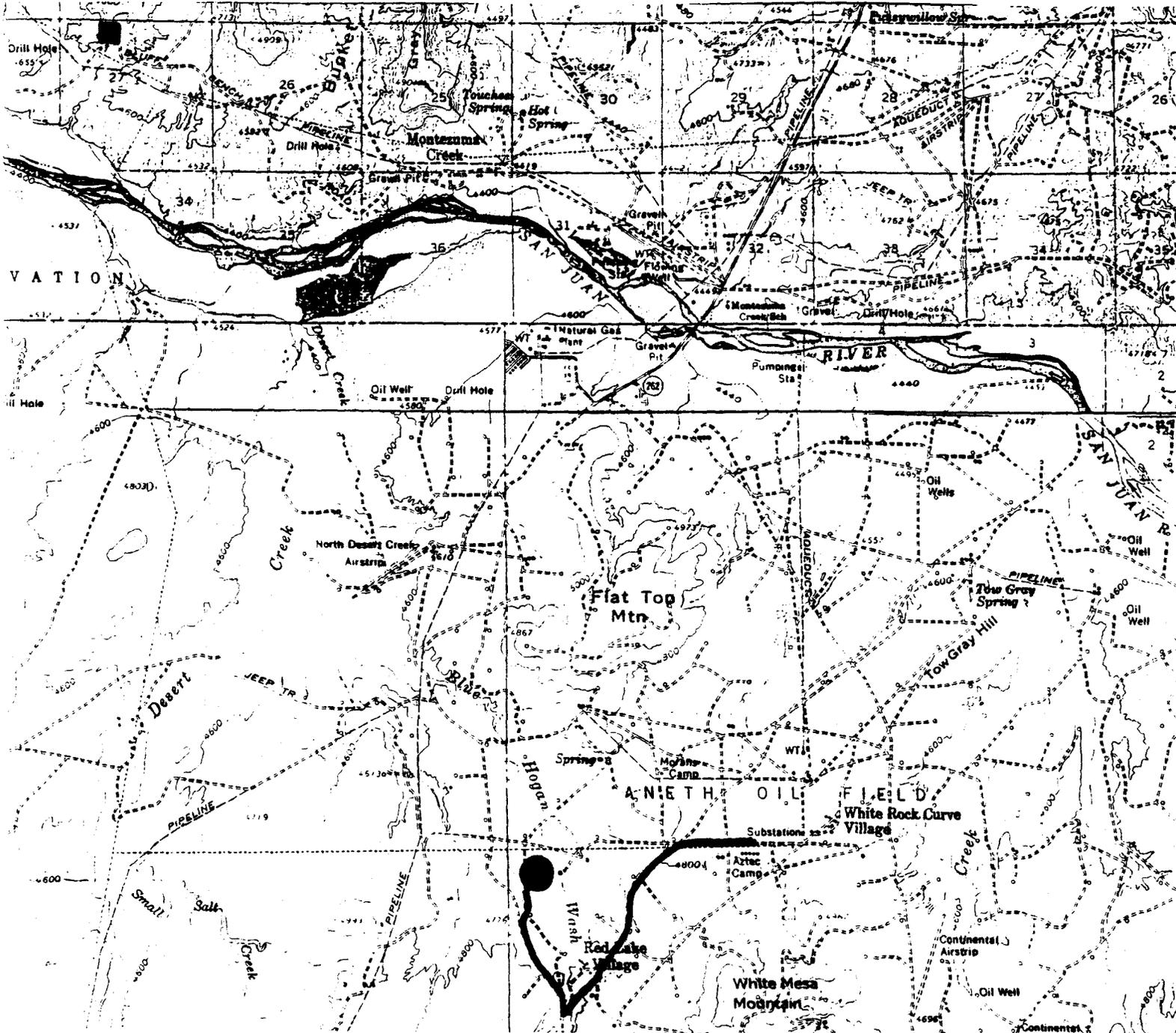
9-23-93
Date

RECEIVED

OCT 12 1993

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

DIVISION OF
OIL, GAS & MINING



Proposed Well: ●

Access Road: ~

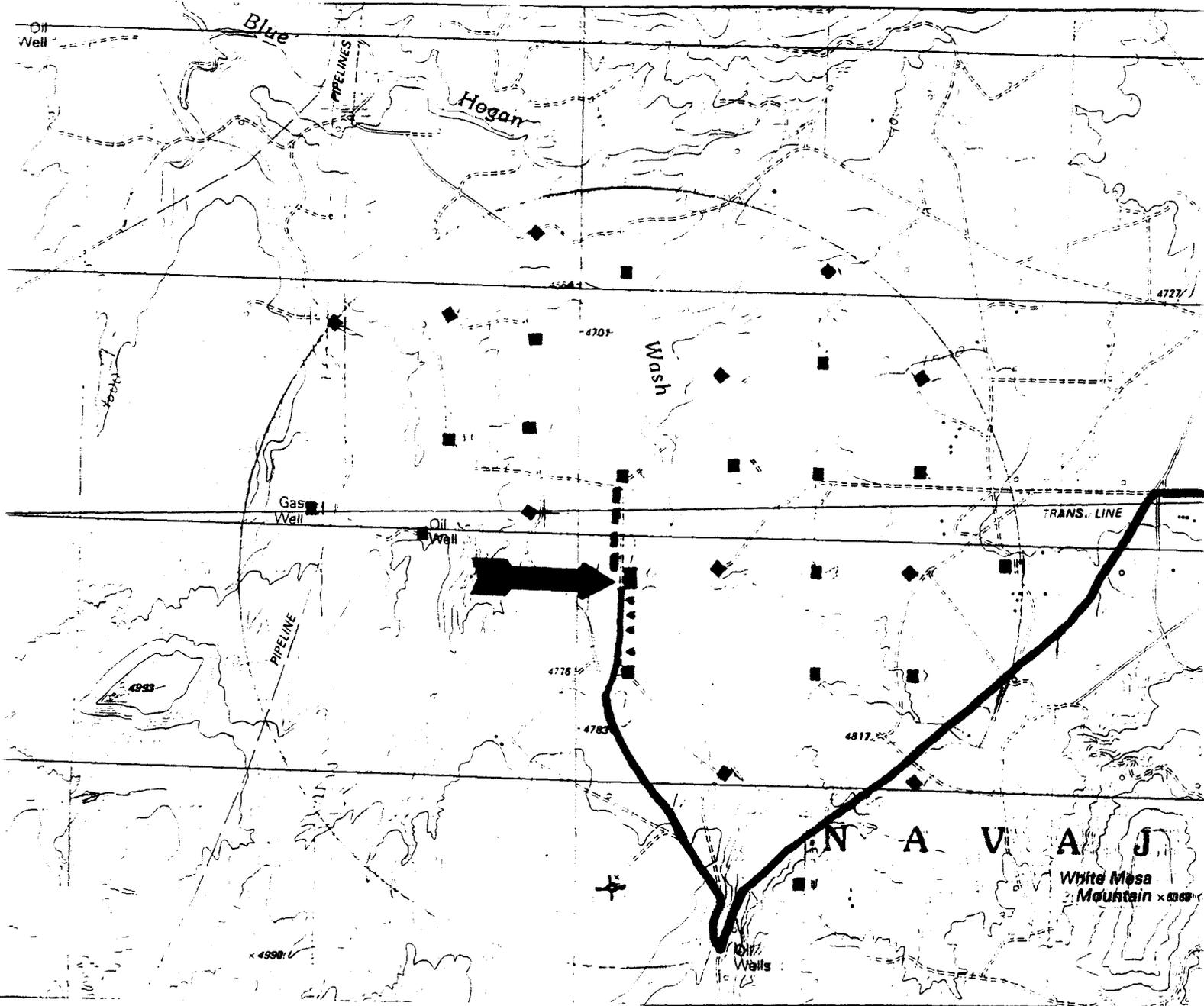
Water Source: ■

RECEIVED

OCT 12 1993

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah

DIVISION OF
OIL, GAS & MINING



Proposed 19-13 Well: 

Existing Injection Well: 

Proposed Pipelines: 

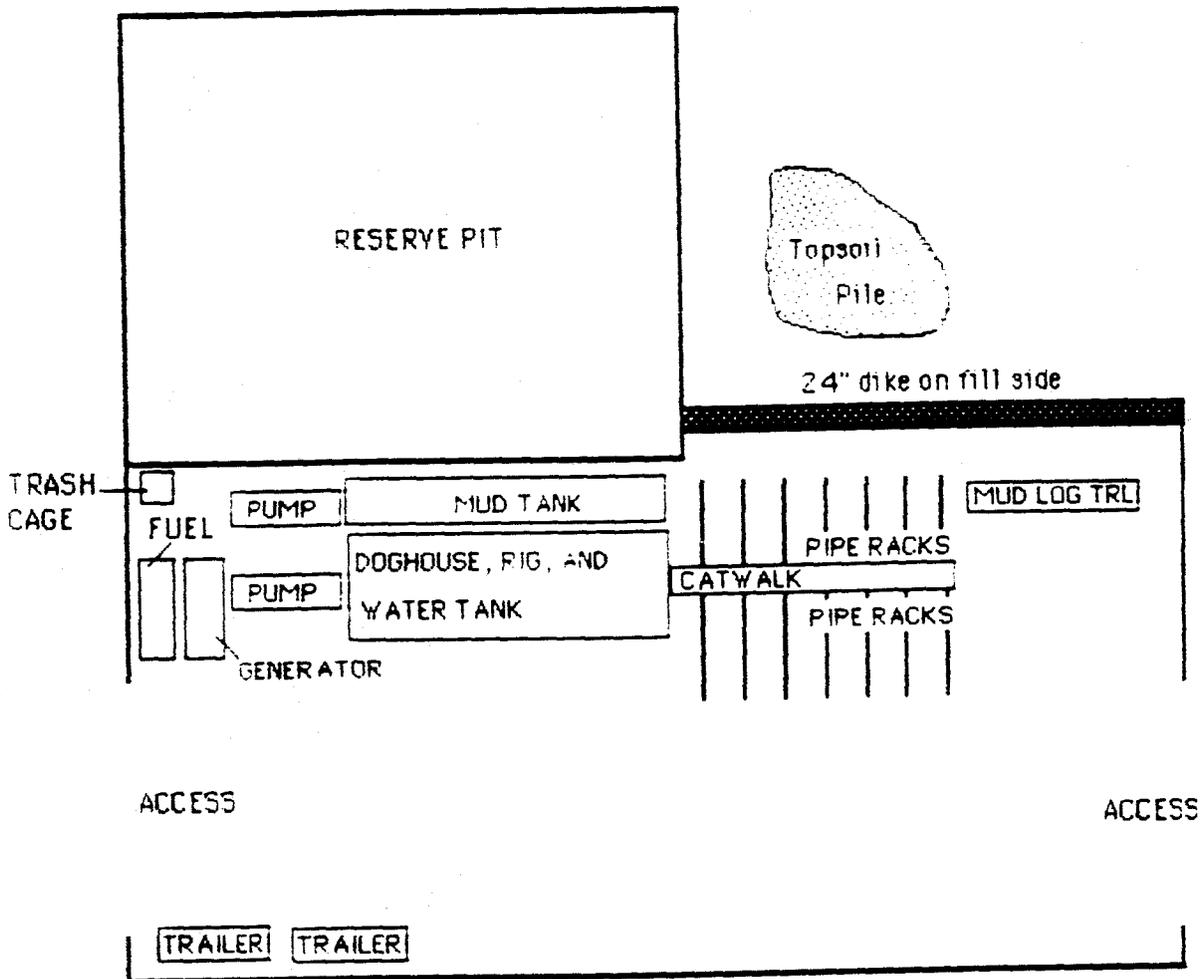
Existing Oil Well: 

Proposed Powerline: 

Access Road: 

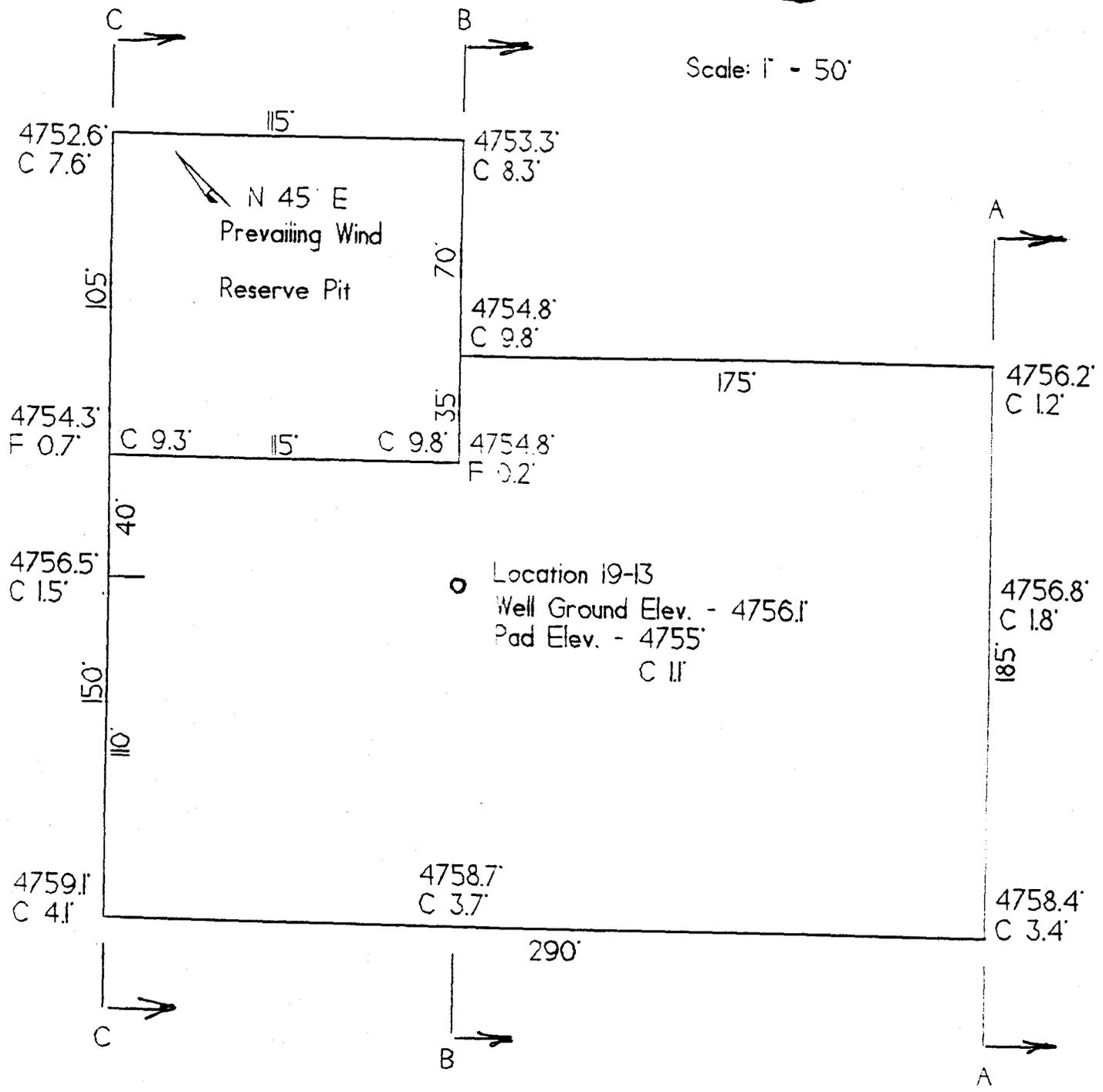
PERMITS WEST .INC.
PROVIDING PERMITS for the ENERGY INDUSTRY

Mobil Exploration & Producing U.S. Inc.
Ratherford Unit 19-13
1980' FSL & 660' FWL
Sec. 19, T. 41 S., R. 24 E.
San Juan County, Utah





Scale: 1" = 50'



See page 3 for cross sections

MANESS AND ASSOCIATES, INC.
SURVEYING

PO BOX 1163
215 N. Linden
Cortez, Colorado
81305-8845

4670

Proposed Pad 4755

4750

Section A-A

4760

Ground Elev. 4756.1

4750

2:1

Reserve

2:1

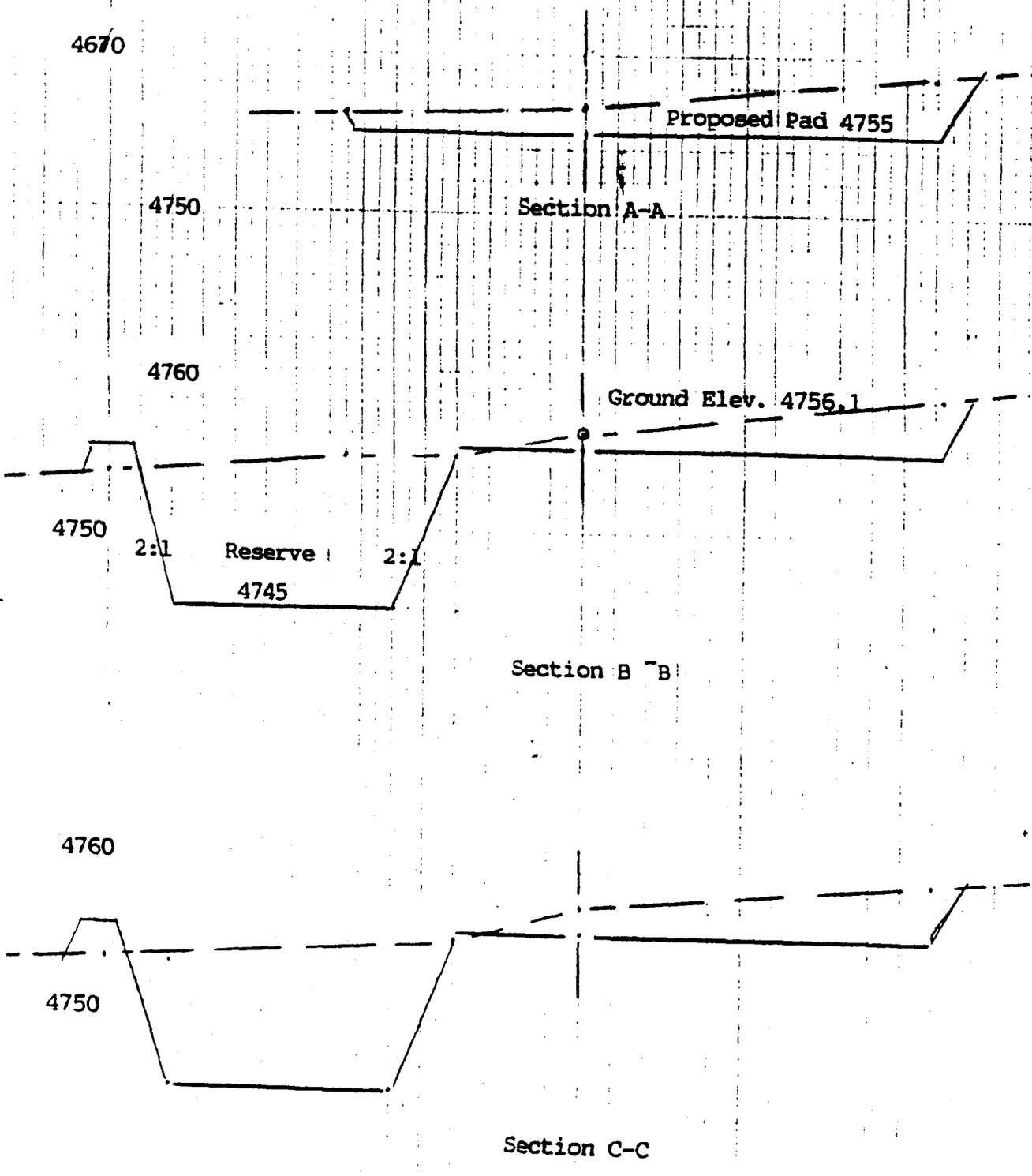
4745

Section B-B

4760

4750

Section C-C



AMENDED

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved:
Budget Bureau No. 1004-01.
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

2. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

3. NAME OF OPERATOR
 MOBIL EXPLORATION & PRODUCING U.S. AS AGENT FOR NPTM/NEPMA

4. ADDRESS OF OPERATOR
 P O BOX 633 MIDLAND, TX 79702

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 660° FWL 1900° FSL
 At proposed prod. zone
 SAME

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
 4 1/2 MILES SOUTH OF MONTEZUMA CREEK, UTAH

7. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest city, town, etc., if any)
 660° FROM RATHERFORD UNIT LEASE LINE 2161

8. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1300° N of 19-12 6000°

9. ELEVATIONS (Show whether DP, RT, GR, etc.)
 KB - 4756.1

10. LEASE DESIGNATION AND SERIAL NO.
 14-20-603-353

11. IF INDIAN, ALLOTTEE OR TRIBE NAME
 NAVAJO TRIBAL

12. UNIT AGREEMENT NAME
 RATHERFORD UNIT

13. FARM OR LEASE NAME
 RATHERFORD UNIT

14. WELL NO.
 19-13

15. FIELD AND POOL OR WILDCAT
 GREATER ANETH

16. SEC., T., R., M., OR S.E. AND SURVEY OR AREA
 SEC. 19 T41S R2NE

17. COUNTY OR PARISH 18. STATE
 SAN JUAN UT

19. NO. OF ACRES IN LEASE
 40 ACRES

20. ROTARY OR CABLE TOOLS
 ROTARY

21. APPROX. DATE WORK WILL START
 Nov. 15, 1993

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	48#	80°	111 ft ³ (Circ. to Surf)
11	8 5/8	24#	1600°	540 ft ³ (Circ. to Surf)
7 7/8	5 1/2	15.5#	6000	1403 ft ³ (Circ. to Surf)

SEE ATTACHED 8 POINT WELL CONTROL PLAN 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
- 2) Remote controlled choke
- 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)
- 8) Mud-gas separator
- 9) Communication from wellsite

RECEIVED

OCT 29 1993

DIVISION OF
OIL, GAS & MINING

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 prevention program, if any.

SIGNED Shuley Joad TITLE ENV. & REG TECHNICIAN DATE 10-25-93

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

11/18/93
 J. Matthews
 649-2-3

*See Instructions On Reverse Side

Mobil Oil Corporation
 Rutherford Unit #19-13
 1980' FSL and 660' FWL
 Section 19, T-41-S, R-24-E
 San Juan County, Utah

Eight Point Drilling Program

1. ESTIMATED FORMATION TOPS*

Formation	Depth from GL	Drill Depth	Subsea Depth
Chinle	1309'	1321'	3459'
DeChelly SS	2569'	2581'	2199'
Hermosa LS	4474'	4486'	294'
Ismay LS	5359'	5371'	-591'
L. Ismay Ls	5429'	5441'	-661'
Gothic Shale	5449'	5461'	-681'
Desert Creek I	5469'	5481'	-701'
Desert Creek II	5509'	5521'	-741'
Chimney Rock	5629'	5641'	-861'
TD	6000'	6012'	-1232'

* All depths based on ground level of 4756.1

2. NOTABLE ZONES

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

Possible Water Zone

Possible Coal Zone

Possible Oil or Gas Zones

DeChelly SS 2520'

Desert Creek I 5530'

Desert Creek II 5600'

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)

The drilling contract has not yet been awarded, thus the exact types of BOP's to be used are not yet known. Examples of a typical BOP and choke manifold are on Page 3. 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. EOP 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.

AMENDED

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved
Budget Bureau No. 1004-01
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

2. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

3. NAME OF OPERATOR
 MOBIL EXPLORATION & PRODUCING U.S. AS AGENT FOR MPTM/MEPMA

4. ADDRESS OF OPERATOR
 P O BOX 633 MIDLAND, TX 79702

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 660° FWL 1980° FSL
 At proposed prod. zone
 SAME

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
 4 1/2 MILES SOUTH OF MONTEZUMA CREEK, UTAH

7. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest city, town, etc. if any)
 660° FROM RATHERFORD UNIT
 LEASE LINE

8. NO. OF ACRES IN LEASE
 2161

9. NO. OF ACRES ASSIGNED TO THIS WELL
 40 ACRES

10. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1300° N of 19-12

11. PROPOSED DEPTH
 6000°

12. ROTARY OR CABLE TOOLS
 ROTARY

13. ELEVATIONS (Show whether DP, RT, CR, etc.)
 KB - 4756.1

14. APPROX. DATE WORK WILL START
 Nov. 15, 1993

5. LEASE DESCRIPTION AND SERIAL NO.
 14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 NAWAJO TRIBE

7. UNIT ASSIGNMENT NAME
 RATHERFORD UNIT

8. FARM OR LEASE NAME
 RATHERFORD UNIT

9. WELL NO.
 19-13

10. FIELD AND SURF OR WILDCAT
 GREATER AMER

11. SEC., T., R., N., OR S.E., AND CORNER OR AREA
 SEC. 19 T41S R20E

12. COUNTY OR PARCEL; 13. STATE
 SAN JUAN UT

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	48#	80°	111 ft ³ (Circ. to Surf)
11	8 5/8	24#	1600°	540 ft ³ (Circ. to Surf)
7 7/8	5 1/2	15.5#	6000	1403 ft ³ (Circ. to Surf)

SEE ATTACHED 8 POINT WELL CONTROL PLAN 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
- 2) Remote controlled choke
- 3) Escape breathing apparatus for all crew members
- 4) H₂S sensors and associated audible/visual alarm(s)
- 5) At least one (1) portable H₂S monitor
- 6) Wind direction indicators
- 7) Caution/danger sign(s) and flag(s)
- 8) Mud-gas separator
- 9) Communication from wellsite

RECEIVED

OCT 29 1993

DIVISION OF
OIL, GAS & MINING

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.

SIGNED Shuley Lead TITLE ENV. & REG TECHNICIAN DATE 10-25-93

This space for Federal or State office use:

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

11/8/93
[Signature]
649-2-3

*See Instructions 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

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

November 8, 1993

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

Re: Ratherford Unit 19-13 Well, 1980' FSL, 660' FWL, NW SW, Sec. 19, T. 41 S.,
R. 24 E., San Juan County, Utah

Gentlemen:

Pursuant to Utah Code Ann. § 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3, Application of Rules to Unit Agreements and R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after commencing drilling operations.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or Mike Hebertson, Oil and Gas Field Specialist, (Home) (801)269-9212.



Page 2
Mobil Exploration & Producing U.S.
Ratherford Unit 19-13 Well
November 8, 1993

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-037-31719.

Sincerely,



R.J. Firth
Associate Director, Oil and Gas

Idc
Enclosures
cc: San Juan County Assessor
Bureau of Land Management, Moab
WO11

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: MOBIL

WELL NAME: RATHERFORD UNIT 19-13

API NO. 43-037-31719

Section 19 Township 41S Range 24E County SAN JUAN

Drilling Contractor ARAPHOE

Rig # 4

SPUDDED: Date 12/8/93

Time 12:30 AM

How ROTARY

Drilling will commence DRILLING AHEAD

Reported by SCOTT CAMPBELL

Telephone # MOBILE-1-915-559-1599

Date 12/8/93 SIGNED MKH

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

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.
19-13

9. API Well No.
43-037-31719

10. Field and Pool, or Exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

MOBIL EXPLORATION & PRODUCING U.S. AGENT FOR MPTM/MEPNA

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)

660' FWL 1980' FSL SEC.19, T41S, R24E

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 type="checkbox"/> Other <u>SPUD</u>
	<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.)

SPUD 12-08-93. DRILL 17 1/2 HOLE TO 90'. RUN 2 JTS. 13 3/8 48 LB H-40 STC CSG W/GUIDE SHOE & 2 CENT. SET AT 90'. CMT 2/200 SXS CL B + 2% CACL2 +0.25% FLOCELE (1.18, 15.6 PPG. CIRC 102 SX CMT. TO SURF. NOTIFIED MARK KELLY'S ANSWERING MACHINE. NOTIFIED MIKE HEBERTSON/STATE OF UTAH.
12-09-93 RAN 9 5/8 36LB K-55 STC CSG. SHOE AT 1587'. PUMP LEAD CMT 475 SX (1.85, 12.4 PPG) HCL +2% CACL2 +2% CACL2. CMT DID NOT CIRC. TO SURFACE. WAYNE TOWNSEND/BLM INSTRUCTED TO RUN 1 IN TBG TO DEPTH OF 140'. CMT AT 1541'. PUMP 150 SXS CL B CMT DOWN 1 IN TBG. CIRC. TO SURFACE. PUMP 25 SX CL B 2% CACL2. CIRC TO SURF.

RECEIVED
DEC 21 1993
DIVISION OF
OIL, GAS & MINING

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

Signed Shirley Joad Title Env. & Reg. Technician Date 12-16-93

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:



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

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

January 7, 1994

Lowell Sheffield
M E P N A
P. O. Drawer G
Cortez, Colorado 81321

Re: Request for Completed Entity Action Form - Ratherford 19-13
NWSW Sec. 19, T. 41S, R. 24E - San Juan County, Utah

Dear Mr. Sheffield:

This is written to remind you that all well operators are responsible for sending an Entity Action Form to the Division of Oil, Gas and Mining within five working days of spudding a new well. This office was notified that your company spudded the Ratherford 19-13 well, API Number ~~43~~43-037-31719, on December 8, 1993. At this time, we have not received an Entity Action Form for this well.

Please review the instructions on the back of the enclosed form. Make sure you choose the proper Action Code to show whether the well will be a single well with its own sales facilities (Code A), a well being added to an existing group of wells having the same tank battery and common division of royalty interest (Code B - show existing Entity Number to which well should be added), or a well being drilled in the participating area of a properly designated unit (Code B). Complete the form and return it to us by January 17, 1994.

Your attention to this matter is appreciated. If we can be of assistance to you, please feel free to call Lisha Cordova at the above number.

Sincerely,

Don Staley
Administrative Supervisor

lec

Enclosure

cc: R. J. Firth
File



OPERATOR MOBIL EXPLORATION & PRODUCING U.S. INC. AS AGENT FOR
MP1M2MEPNA OPERATOR ACCT. NO. N 7370
 ADDRESS P O BOX 633
Midland, Tx 79702

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	6280		43-037-31717	Ratherford Unit #14-31		14	41S	23E	San Juan	11-16-93	11-16-93
WELL 1 COMMENTS: This is an oil well <i>Entity previously added 12-22-93.</i>											
B	99999	06280	43-037-31719	Ratherford Unit #19-13		19	41S	24E	San Juan	12-08-93	12-08-93
WELL 2 COMMENTS: This is an oil well <i>Entity added 1-25-94. See</i>											
B	99999	06280	43-037-31720	Ratherford Unit #21-24		21	41S	24E	San Juan	12-27-93	12-27-93
WELL 3 COMMENTS: This is an oil well <i>Entity added 1-25-94. See</i>											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
 - B - Add new well to existing entity (group or unit well)
 - C - Re-assign well from one existing entity to another existing entity
 - D - Re-assign well from one existing entity to a new entity
 - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

RECEIVED

JAN 24 1994

DIVISION OF
OIL, GAS & MINING

Shuley Dodd
 Signature
 Env. & Reg Tech. 1-21-94
 Title Date
 Phone No. (915) 688-2585

ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK
PRESIDENT

January 17, 1994

DEVIATION REPORT

Mobil Exploration
Ratherford 19-13
San Juan County, UT

43-037-31719

RECEIVED

JAN 24 1994

DIVISION OF
OIL GAS & MINING

19-415-24E

Date	Depth	Deviation
12-08-93	90'	1/2 °
12-09-93	570'	3/4 °
	1074'	1 °
12-10-93	1585'	1 °
12-13-93	2085'	1 °
	2562'	1/4 °
12-14-93	3124'	1/2 °
12-16-93	3618'	1/2 °
12-17-93	3892'	3/4 °
12-18-93	4048'	3/4 °
12-20-93	4580'	1 °
12-22-93	5070'	1 °
	5155'	1 °
12-25-93	5665'	3/4 °

I CERTIFY THE ABOVE TO BE TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Larry H. Williams
Larry H. Williams, Office Manager

1/17/94
Date

SWORN AND subscribed to this 17th day of January, 1994, by Larry H. Williams, known to me to be the Office Manager of Arapahoe Drilling Co., Inc.

My Commission Expires: June 7, 1997

Clair L. Stacey
Clair L. Stacey, Notary Public

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

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.
19-13

9. API Well No.
43-037-31719

10. Field and Pool, or Exploratory Area
GREATER ANETH

11. Country or Parish, State
SAN JUAN, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

MOBIL EXPLORATION & PRODUCING U.S. AS AGENT FOR MPTM/MEPNA

3. Address and Telephone No.

P O BOX 633 MIDLAND TX 79702

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

660' FWL, 1980' FSL SEC 19, T41S, R24E

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other AMEND DRILLING PERMIT

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.)*

AMEND CASING, CEMENT, & HOLE SIZE

HOLE SIZE	CASING	WEIGHT	QUANTITY OF CMT
17 1/2	13 3/8	48#	200 FT ³ (CIRC. TO SURFACE)
12 1/4	9 5/8	36#	651 FT ³ (CIRC. TO SURFACE)
8 3/4	7	23#	1086 FT ³ (CIRC. TO SURFACE)

APPROVED BY THE STATE
COMMISSIONER OF
OIL, GAS AND MINES

DATE: 1-25-94
BY: [Signature]

RECEIVED

JAN 24 1994

DIVISION OF
OIL, GAS & MINES

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

Signed Shirley Dodd

Title Env. & Reg. Technician

Date 1-21-94

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any: _____

Mobil Oil Corporation
 Ratherford Unit #19-13
 660' FVM, 1980' FSL
 Section 19, T-41-S, R-23-E
 San Juan County, Utah

ACCEPTED

JAN 24 1994

DIVISION OF
 OIL, GAS & MINING

4. CASING & CEMENT

<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#	USS50	LT&C	New	0000' - 5300'
8 3/4	7"	23#	L80	LT&C	New	5300' - 5800'

Surface Casing (0' to 80'): Cement to surface with 200 ft³. Volume calculated with 100% excess. Ready-Mix cement.

Intermediate Casing (0' to 1600'): Cement to surface with 651 ft³. Volume calculated with 30% excess. Lead with slurry of 65:35:6 "B" Poz + 2% CaCl₂. Tail with Class "B" + 2% CaCl₂. Total of 11 centralizers and one stop collar. One on the shoe joint and one every fourth collar to 200' from surface. Actual cement volume to be based on OH Caliper + 30% excess.

Production Casing (0' to 6000'): Cement to surface with 1086 ft³ (via two stage cement job). Volume calculated with 30% excess. Lead with slurry of Class G + 3% Econolite + 0.25 gps Flocele (wt/yd = 11.5/2.70). Tail with Class G + 3 gps Latex 2000 + 0.05 gps Dair 3 + 0.5 gps 434 B + 0.5% CFR 3 (wt/yd = 15.8/1.18) or Flexoem. Total of 38 centralizers and 1 stop collar. One centralizer on the float shoe then every fourth collar. Actual cement volumes based on OH Caliper + 30% excess.

5. MUD PROGRAM

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0000 - 1600	FWSpud Mud	8.4 - 8.8	35 - 45	NC
1600 - 5000	FWPHPA	9.0 - 11.5	36 - 48	NC
5000 - 6000	FWPHPA	9.5 - 11.5	36 - 48	10 - 15

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 DeChelly formation may be encountered.

8. MISCELLANEOUS

The anticipated spud date is November 1993. It is expected to take +/- 24 days to drill the well and 10 days to complete the well.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL GAS WELL DRY Other

2. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other **FEB 07 1994**

3. NAME OF OPERATOR: MOBIL OIL CORPORATION

4. ADDRESS OF OPERATOR: P O BOX 633 Midland, TX 79702

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 660' FWL, 1980 FSL
At top prod. interval reported below: SAME
At total depth: Same

6. IF INDIAN ALLOTTEE OR TRIBE NAME: NAVAJO TRIBAL

7. UNIT AGREEMENT NAME: RATHERFORD UNIT

8. FARM OR LEASE NAME: RATHERFORD UNIT

9. WELL NO.: 19-13

10. FIELD AND POOL, OR WILDCAT: GREATER ANETH

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 19, T41S, R24E

12. COUNTY OR PARISH: San Juan

13. STATE: UT

14. PERMIT NO.: 43-037-31719

DATE ISSUED: 11-09-93

15. DATE SPUNDED: 12-08-93

16. DATE T.D. REACHED: 12-27-93

17. DATE COMPL. (Ready to prod.): 01-05-94

18. ELEVATIONS (OF, RKB, RT, GR, ETC.)*: 4756.1

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD: 5666

21. PLUG BACK T.D., MD & TVD: 5666

22. IF MULTIPLE COMPL. HOW MANY*:

23. INTERVALS DRILLED BY: →

ROTARY TOOLS: X

CABLE TOOLS:

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5512-5568 Desert Creek

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: 1-5-94
SDL/DSN/GR/CLL **HIGH RESOLUTION INDUCTION**

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
13 3/8	48#	90'	17 1/2	200 sx C1 B	NONE
9 5/8	36#	1587'	12 1/4	1100 sx c1 B	None
7	23#	5666	8 3/4	375 sx C1 B	None
		DV tool @ 2938		250 sx C1 G	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	SN @ 5598	TAC @ 5405

31. PERFORATION RECORD (Interval, size and number)

Perf 4 SPF 5512-44 (128 holes)
5564-68 (16 holes)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5512-64, 5564-68	Acid wash perfs w/2940 gals 15% HCl + add.

33. PRODUCTION

DATE FIRST PRODUCTION: 1-8-94

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): 2 1/2 X 2 X 24

WELL STATUS (Producing or shut-in): Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-14-94	24		→	317	120	70	378

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

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

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS:

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

SIGNED: Shirley Todd TITLE: Env. & Reg. Technician DATE: 2-3-94

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

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
De Chelly	2560		Sand, Shale			
Hermosa	4465		limestone, shale			
Ismay	5350		limestone, shale			
Lower Ismay	5420		limestone, shale			
Gothic	5440		shale			
Desert Creek I	5460		shale			
Desert Creek II	5500		shale			
Chimney Rock	5620		shale			

ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK
PRESIDENT

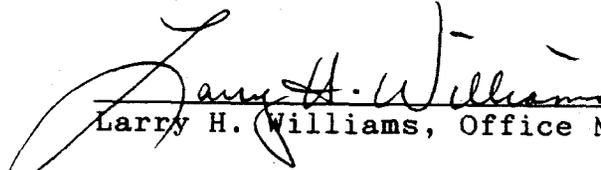
January 17, 1994

DEVIATION REPORT

Mobil Exploration
Ratherford 19-13
San Juan County, UT

<u>Date</u>	<u>Depth</u>	<u>Deviation</u>
12-08-93	90'	1/2 °
12-09-93	570'	3/4 °
	1074'	1 °
12-10-93	1585'	1 °
12-13-93	2085'	1 °
	2562'	1/4 °
12-14-93	3124'	1/2 °
12-16-93	3618'	1/2 °
12-17-93	3892'	3/4 °
12-18-93	4048'	3/4 °
12-20-93	4580'	1 °
12-22-93	5070'	1 °
	5155'	1 °
12-25-93	5665'	3/4 °

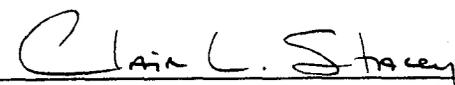
I CERTIFY THE ABOVE TO BE TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.


Larry H. Williams, Office Manager

1/17/94
Date

SWORN AND subscribed to this 17th day of January, 1994, by Larry H. Williams, known to me to be the Office Manager of Arapahoe Drilling Co., Inc.

My Commission Expires: June 7, 1997


Clair L. Stacey, Notary Public

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

SUNDRY NOTICES AND REPORTS ON WELLS 5 15 1994

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

**DIVISION OF
OIL GAS & MINING**

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.

19-13

9. API Well No.

43-037-31719

10. Field and Pool, or Exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN, UTAH

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
MOBIL EXPLORATION & PRODUCING U.S. AGENT FOR MPTM/MEPNA

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)
660' FWL 1980' FSL SEC.19, T41S, R24E

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 type="checkbox"/> Other 7 IN. CSG
	<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.)*

12-26-93 RUN 112 JTS K55, 23# 7 IN. CSG. & 11 JTS L-80 23# CSG TO 5666'. CMT 1ST STAGE LEAD W/ 600 SX (2.38 YIELD DEN. 12.0) CL B CMT. 3% ECONOLITE+0.2% D-AIR-1+1/4#/SX FLOCELE TAIL 175 SX (1.15 YIELD, DEN. 15.8) CL G .5/GPS 434-B+.05/GPS D-AIR-II +.5% CF R=3/GPS. 2ND STAGE - LEAD 375 SX CL B CMT (2.38 YIELD, 12.0 DEN.) 3% ECONOLITE + .2% D-AIR-1+ .25/PPS FLOCELE. TAIL 250 SX CL B (YIELD 1.18. DEN. 15.6) .4% HALAD 344.

9 5/8" CSG - TAIL CMT 625 SX (1.20, 15.6 ppg) STD + 2% CACL2 + 0.25 PPS FLOCELE. TOTAL OF 1275 SX OF CMT

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

Signed Shirley Todd SHIRLEY TODD

Title ENV. & REG TECHNICIAN

Date 2-10-94

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
 355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

C/O MOBIL OIL CORP
 M E P N A
 PO DRAWER G
 CORTEZ CO 81321

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 6 / 95

AMENDED REPORT (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
RATHERFORD 20-67								
4303731590	06280	41S 24E 20	DSCR					
RATHERFORD 20-68								
4303731591	06280	41S 24E 20	DSCR					
RATHERFORD 20-66								
4303731592	06280	41S 24E 20	DSCR					
RATHERFORD 24-32								
4303731593	06280	41S 23E 24	DSCR					
RATHERFORD 19-97								
4303731596	06280	41S 24E 19	DSCR					
RATHERFORD 11-43								
4303731622	06280	41S 23E 11	DSCR					
RATHERFORD 14-41								
4303731623	06280	41S 23E 14	DSCR					
RATHERFORD UNIT 14-31								
4303731717	06280	41S 23E 14	DSCR					
RATHERFORD UNIT 19-13								
4303731719	06280	41S 24E 19	DSCR					
RATHERFORD UNIT 21-24								
4303731720	06280	41S 24E 21	DSCR					
TOTALS								

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge. Date: _____
 Name and Signature: _____ Telephone Number: _____

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____

(Location) Sec ___ Twp ___ Rng ___
(API No.) _____

Suspense
(Return Date) _____
(To - Initials) _____

Other
OPER NM CHG

1. Date of Phone Call: 8-3-95 Time: _____

2. DOGM Employee (name) L. CORDOVA (Initiated Call)
Talked to:

Name R. J. FIRTH (Initiated Call) - Phone No. () _____
of (Company/Organization) _____

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation: _____

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING
NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT
THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.
*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

RECEIVED
MAY 16 1986

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

DIVISION OF
OIL, GAS & MINING

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd
CNE8661

R. D. Baker
Environmental Regulatory Manager

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing	
1- LVC	7- PL
2-LWP	8-SJV
3- DT	9-FILE
4-VLC	
5-RJF	
6-LWP	

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-2-95)

TO (new operator) MOBIL EXPLOR & PROD
 (address) C/O MOBIL OIL CORP
PO DRAWER G
CORTEZ CO 81321
 phone (303) 564-5212
 account no. N7370

FROM (former operator) M E P N A
 (address) C/O MOBIL OIL CORP
PO DRAWER G
CORTEZ CO 81321
 phone (303) 564-5212
 account no. N7370

Well(s) (attach additional page if needed):

Name: <u>** SEE ATTACHED **</u>	API: <u>037-31719</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- LWP 6. Cardex file has been updated for each well listed above. 8-21-95
- LWP 7. Well file labels have been updated for each well listed above. 9-28-95
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lee* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) ** No Fee Lease wells at this time!*

- N/A/ Lee* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- ____ 2. A copy of this form has been placed in the new and former operators' bond files.
- ____ 3. The former operator has requested a release of liability from their bond (yes/no) ____.
Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested. *UTS 8/5/95*
- N/A* 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

FILMING

1. All attachments to this form have been microfilmed. Date: October 6 1995.

FILING

- ____ 1. Copies of all attachments to this form have been filed in each well file.
- ____ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950803 UIC F5/Not necessary!

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

June 27, 2001

ExxonMobil
Production

Mr. Jim Thompson
State of Utah, Division of Oil, Gas and Mining
1549 West North Temple
Suite 1210
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

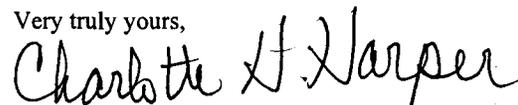
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,



Charlotte H. Harper
Permitting Supervisor

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

RECEIVED

JUN 29 2001

DIVISION OF
OIL, GAS AND MINING



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

XXXXXXXXXXXXXXXXXXXX
Navajo Area Office
NAVAJO REGION

P.O. Box 1060
Gallup, New Mexico 87305-1060

AUG 30 2001

IN REPLY REFER TO:

RRES/543

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor
Exxon Mobil Production Company
U. S. West
P. O. Box 4358
Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of \$75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

DEAN DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures ✓
Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

MINERAL RESOURCES	
ADM	<i>[Signature]</i>
NATV AM MIN COORD	_____
SOLID MIN TEAM	_____
PETRO MIN TEAM	<i>2</i>
O & G INSPECT TEAM	_____
ALL TEAM LEADERS	_____
LAND RESOURCES	_____
ENVIRONMENT	_____
FILES	_____

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

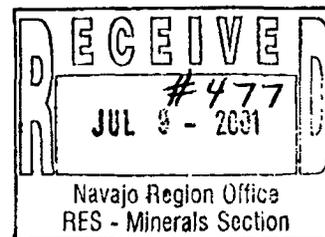
File 7/12/2001
JH
543
File

June 27, 2001

ExxonMobil
Production

Certified Mail
Return Receipt Requested

Ms. Genni Denetsone
United States Department of the Interior
Bureau of Indian Affairs, Navajo Region
Real Estate Services
P. O. Box 1060
Gallup, New Mexico 87305-1060
Mail Code 543



Change of Name -
Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of \$75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

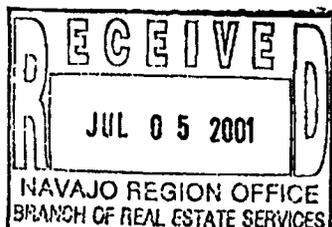
If you have any questions , please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

Attachments



ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Isaac

Bureau of Indian Affairs
Navajo Region Office
Attn: RRES - Mineral and Mining Section
P.O. Box 1060
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

OFFICERS

President	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Vice President	<u>K.T. Koonce</u>	Address <u>800 Bell Street Houston, TX 77002</u>
Secretary	<u>F.L. Reid</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Treasure	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

DIRECTORS

Name	<u>D.D. Humphreys</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>P.A. Hanson</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>T.P. Townsend</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

Sincerely,

Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is true and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800) 927-9800 whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218



Signature

AGENT AND ATTORNEY IN FACT

Title

CERTIFICATION

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

CHANGE OF COMPANY NAME

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

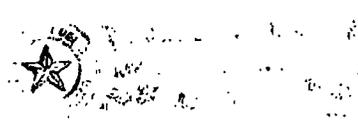
WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

S. A. M... ..
Assistant Secretary

COUNTY OF DALLAS)
STATE OF TEXAS)
UNITED STATES OF AMERICA)

Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.

Janice M. Phillips
Notary Public



LISTING OF LEASES OF MOBIL OIL CORPORATION**Lease Number**

- 1) 14-20-0603-6504
- 2) 14-20-0603-6505
- 3) 14-20-0603-6506
- 4) 14-20-0603-6508
- 5) 14-20-0603-6509
- 6) 14-20-0603-6510
- 7) 14-20-0603-7171
- 8) 14-20-0603-7172A
- 9) 14-20-600-3530
- 10) 14-20-603-359
- 11) 14-20-603-368
- 12) 14-20-603-370
- 13) 14-20-603-370A
- 14) 14-20-603-372
- 15) 14-20-603-372A
- 16) 14-20-603-4495
- 17) 14-20-603-5447
- 18) 14-20-603-5448
- 19) 14-20-603-5449
- 20) 14-20-603-5450
- 21) 14-20-603-5451

6/1/01

CHUBB GROUP OF INSURANCE COMPANIES

One World Center South, Suite 1900, Houston, Texas 77027-3501
Telephone: (713) 937-4600 • Facsimile: (713) 297-4750

NW Bond

FEDERAL INSURANCE COMPANY RIDER
to be attached to and form a part of

BOND NO 8027 31 97

wherein

Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is
named as Principal and

FEDERAL INSURANCE COMPANY AS SURETY,

in favor of **United States of America, Department of the Interior**
Bureau of Indian Affairs

in the amount of **\$150,000.00**

bond date: 11/01/65

IT IS HEREBY UNDERSTOOD AND AGREED THAT effective June 1, 2001
the name of the Principal is changed

FROM: Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.

TO : ExxonMobil Oil Corporation

All other terms and conditions of this Bond are unchanged.

Signed, sealed and dated this 12th of June, 2001.

ExxonMobil Oil Corporation

By:



FEDERAL INSURANCE COMPANY

By:

Mary Pierson
Mary Pierson, Attorney-in-fact



POWER OF ATTORNEY

Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company

Attn.: Surety Department
15 Mountain View Road
Warren, NJ 07059

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint R. F. Bobo, Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas-----

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.

Kenneth C. Wendel
Kenneth C. Wendel, Assistant Secretary

Frank E. Robertson
Frank E. Robertson, Vice President

STATE OF NEW JERSEY } ss.
County of Somerset

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Companies in the presence of the Notary Public.



Notary Public State of New Jersey
No. 2231647
Commission Expires Oct. 28, 2004

Karen Price
Notary Public

Extract from the By-Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:
"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001



Kenneth C. Wendel
Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

CSC

5184334741

06/01 '01 08:46 NO.410 03/05

CSC

06/01 '01 09:06 NO.135 02/04

F010601000187

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
MOBIL OIL CORPORATION

CSC 45

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

FIRST: That the name of the corporation is MOBIL OIL CORPORATION and that said corporation was incorporated under the name of Standard Oil Company of New York.

SECOND: That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

THIRD: That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st The corporate name of said Company shall be,
ExxonMobil Oil Corporation",

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

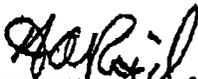
CSC
CSC

5184334741

06/01 '01 08:47 NO.410 04/05
06/01 '01 09:06 NO.133 03/04

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

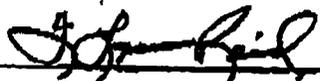
IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.



F. A. Risch, President 

STATE OF TEXAS)
COUNTY OF DALLAS)

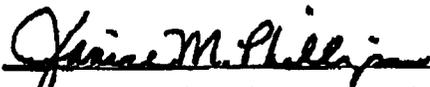
F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.



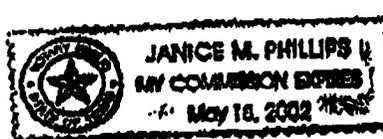
F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]



NOTARY PUBLIC, STATE OF TEXAS



CSC
CSC

5184334741

06/01 '01 09:01 NO.411 02/02
06/01 '01 09:06 NO.152 04/04
F010601000187

CSC 45

CERTIFICATE OF AMENDMENT

OF

MOBIL OIL CORPORATION

Under Section 805 of the Business Corporation Law

SAC

**STATE OF NEW YORK
DEPARTMENT OF STATE**

100 cc

Filed by: EXXONMOBIL CORPORATION
(Name)

FILED JUN 01 2001

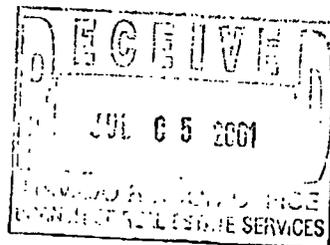
5959 Las Colinas Blvd.
(Mailing address)

TAX \$ _____
BY: *SAC*

Irving, TX 75039-2298
(City, State and Zip code)

ny Albany

Cost Ref # 165578 MPJ



010601000195

State of New York }
Department of State } ss:

I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.

Witness my hand and seal of the Department of State on **JUN 01 2001**



A handwritten signature in black ink, appearing to read "J. Leuch", with a long horizontal line extending to the right.

Special Deputy Secretary of State

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW ✓
3. FILE

Change of Operator (Well Sold)

Designation of Agent

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: **06-01-2001**

FROM: (Old Operator):	TO: (New Operator):
MOBIL EXPLORATION & PRODUCTION	EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"	Address: U S WEST P O BOX 4358
CORTEZ, CO 81321	HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212	Phone: 1-(713)-431-1010
Account No. N7370	Account No. N1855

CA No. Unit: RATHERFORD

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
RATHERFORD UNIT 19-13	19-41S-24E	43-037-31719	6280	INDIAN	OW	P
RATHERFORD UNIT 19-24 (MULTI-LEG)	19-41S-24E	43-037-31754	6280	INDIAN	OW	P
RATHERFORD UNIT 20-44	20-41S-24E	43-037-30915	6280	INDIAN	OW	P
20-13	20-41S-24E	43-037-30917	6280	INDIAN	OW	P
20-24	20-41S-24E	43-037-30918	6280	INDIAN	OW	P
20-22	20-41S-24E	43-037-30930	6280	INDIAN	OW	P
RATHERFORD UNIT 20-33	20-41S-24E	43-037-30931	6280	INDIAN	OW	S
RATHERFORD UNIT 20-11	20-41S-24E	43-037-31049	6280	INDIAN	OW	S
RATHERFORD UNIT 20-31	20-41S-24E	43-037-31050	6280	INDIAN	OW	P
RATHERFORD UNIT 20-42	20-41S-24E	43-037-31051	6280	INDIAN	OW	P
RATHERFORD 20-68	20-41S-24E	43-037-31591	6280	INDIAN	OW	P
RATHERFORD 20-66	20-41S-24E	43-037-31592	6280	INDIAN	OW	P
21-23	21-41S-24E	43-037-13754	6280	INDIAN	OW	S
21-32	21-41S-24E	43-037-15755	6280	INDIAN	OW	S
21-34	21-41S-24E	43-037-15756	6280	INDIAN	OW	S
RATHERFORD UNIT 21-11	21-41S-24E	43-037-31052	6280	INDIAN	OW	S
RATHERFORD UNIT 21-24	21-41S-24E	43-037-31720	6280	INDIAN	OW	P
RATHERFORD UNIT 21-77	21-41S-24E	43-037-31758	6280	INDIAN	OW	S
RATHERFORD UNIT 28-11	28-41S-24E	43-037-30446	6280	INDIAN	OW	P
29-34	29-41S-24E	43-037-15340	6280	INDIAN	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
5. If **NO**, the operator was contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 04/15/2002
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 04/15/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 80273197

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: 6/1/2006	
FROM: (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936	TO: (New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600
CA No.	Unit: RATHERFORD

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
- If **NO**, the operator was contacted on:
- (R649-9-2) Waste Management Plan has been received on: requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/22/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/22/2006
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: 6/22/2006
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: n/a
- Indian well(s) covered by Bond Number: PA002769
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <u>See attached list</u>
2. NAME OF OPERATOR: <u>Resolute Natural Resources Company</u> <u>N2700</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Navajo Tribe</u>
3. ADDRESS OF OPERATOR: <u>1675 Broadway, Suite 1950</u> CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		7. UNIT or CA AGREEMENT NAME: <u>Ratherford Unit</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>See attached list</u>		8. WELL NAME and NUMBER: <u>See attached list</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		9. API NUMBER: <u>Attached</u>
COUNTY: <u>San Juan</u>		10. FIELD AND POOL, OR WILDCAT: <u>Greater Aneth</u>
STATE: <u>UTAH</u>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

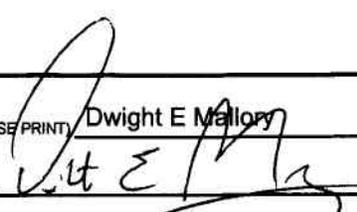
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the Ratherford Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the Ratherford Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT) <u>Dwight E Mallory</u>	TITLE <u>Regulatory Coordinator</u>
SIGNATURE 	DATE <u>4/20/2006</u>

(This space for State use only)

APPROVED 6127106
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
APR 24 2006
DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: ExxonMobil Oil Corporation N1855		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ship Rock
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY Houston STATE TX ZIP 77210-4358		7. UNIT or CA AGREEMENT NAME: UTU68931A
4. LOCATION OF WELL FOOTAGES AT SURFACE: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		8. WELL NAME and NUMBER: Ratherford 9. API NUMBER: attached
		10. FIELD AND POOL, OR WILDCAT: Aneth
		COUNTY: San Juan
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/1/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, Ratherford lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of producers and water source wells included in the transfer.

NAME (PLEASE PRINT) <u>Laurie Kilbride</u>	TITLE <u>Permitting Supervisor</u>
SIGNATURE	DATE <u>4/19/2006</u>

(This space for State use only) **APPROVED** 6/13/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
APR 21 2006
DIV. OF OIL, GAS & MINING

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	01-14	430373116200S1	Producing	1420603246A	1	41S	23E	SWSW	0660FSL	0660FWL
Ratherford	01-34	430371638501S1	SI	1420603246A	1	41S	23E	SWSE	1133FSL	1980FEL
Ratherford	11-41	430373154400S1	Producing	1420603246A	11	41S	23E	NENE	0860FNL	0350FEL
Ratherford	11-43	430373162201S1	Producing	1420603246A	11	41S	23E	NESE	1980FSL	0660FEL
Ratherford	12-12	430373119000S1	Producing	1420603246A	12	41S	23E	SWNW	1850FNL	0660FWL
Ratherford	12-14	430371584400S1	SI	1420603246A	12	41S	23E	SWSW	0660FSL	4622FEL
Ratherford	12-21	430373120100S1	Producing	1420603246A	12	41S	23E	NENW	0660FNL	1980FWL
Ratherford	12-23	430371584601S1	Producing	1420603246A	12	41S	23E	NESW	1958FSL	3300FEL
Ratherford	12-32	430373120300S1	Producing	1420603246A	12	41S	23E	SWNE	1820FNL	1820FEL
Ratherford	12-34	430373112600S1	Producing	1420603246A	12	41S	23E	SWSE	0675FSL	1905FEL
Ratherford	12-43	430373120200S1	SI	1420603246A	12	41S	23E	NESE	2100FSL	0660FEL
Ratherford	13-12	430373112701S1	Producing	1420603247A	13	41S	23E	SWNW	1705FNL	0640FWL
Ratherford	13-14	430373158900S1	Producing	1420603247A	13	41S	23E	SWSW	0660FSL	0660FWL
Ratherford	13-21	430373112801S1	SI	1420603247A	13	41S	23E	NENW	0660FNL	1920FWL
Ratherford	13-23	430373112900S1	Producing	1420603247A	13	41S	23E	NESW	1980FSL	1930FWL
Ratherford	13-34	430373113001S1	Producing	1420603247A	13	41S	23E	SWSE	0660FSL	1980FEL
Ratherford	13-41	430371585601S1	Producing	1420603247A	13	41S	23E	NENE	660FNL	660FEL
Ratherford	13-43	430373113100S1	Producing	1420603247A	13	41S	23E	NESE	1700FSL	0960FEL
Ratherford	14-32	430371585801S1	Producing	1420603247A	14	41S	23E	SWNE	2130FNL	1830FEL
Ratherford	14-41	430373162300S1	Producing	1420603247A	14	41S	23E	NENE	0521FNL	0810FEL
Ratherford	24-32	430373159300S1	Producing	1420603247A	24	41S	23E	SWNE	2121FNL	1846FEL
Ratherford	24-41	430373113200S1	Producing	1420603247A	24	41S	23E	NENE	0660FNL	0710FEL
Ratherford	17-11	430373116900S1	Producing	1420603353	17	41S	24E	NWNW	1075FNL	0800FWL
Ratherford	17-13	430373113301S1	Producing	1420603353	17	41S	24E	NWSW	2100FSL	0660FWL
Ratherford	17-22	430373117001S1	Producing	1420603353	17	41S	24E	SENE	1882FNL	1910FWL
Ratherford	17-24	430373104400S1	Producing	1420603353	17	41S	24E	SESW	0720FSL	1980FWL
Ratherford	17-31	430373117800S1	Producing	1420603353	17	41S	24E	NWNE	0500FNL	1980FEL
Ratherford	17-33	430373113400S1	Producing	1420603353	17	41S	24E	NWSE	1980FSL	1845FEL
Ratherford	17-42	430373117700S1	Producing	1420603353	17	41S	24E	SENE	1980FNL	0660FEL
Ratherford	17-44	430371573201S1	Producing	1420603353	17	41S	24E	SESE	0660FSL	0660FEL
Ratherford	18-11	430371573300S1	SI	1420603353	18	41S	24E	NWNW	0720FNL	0730FWL
Ratherford	18-13	430371573401S1	Producing	1420603353	18	41S	24E	NWSW	1980FSL	0500FWL
Ratherford	18-22	430373123600S1	Producing	1420603353	18	41S	24E	SENE	2200FNL	2210FWL
Ratherford	18-24	430373107900S1	Producing	1420603353	18	41S	24E	SESW	0760FSL	1980FWL
Ratherford	18-31	430373118101S1	Producing	1420603353	18	41S	24E	NWNE	0795FNL	2090FEL
Ratherford	18-33	430373113501S1	Producing	1420603353	18	41S	24E	NWSE	1870FSL	1980FEL
Ratherford	18-42	430373118200S1	Producing	1420603353	18	41S	24E	SENE	2120FNL	0745FEL
Ratherford	18-44	430373104500S1	SI	1420603353	18	41S	24E	SESE	0660FSL	0660FEL
Ratherford	19-11	430373108000S1	Producing	1420603353	19	41S	24E	NWNW	0660FNL	0660FWL
Ratherford	19-13	430373171900S1	Producing	1420603353	19	41S	24E	NWSW	1980FSL	0660FWL
Ratherford	19-22	430373104601S1	Producing	1420603353	19	41S	24E	SENE	1840FNL	1980FWL
Ratherford	19-24	430373175401S1	Producing	1420603353	19	41S	24E	SESW	0600FSL	1980FWL
Ratherford	19-31	430373104701S1	Producing	1420603353	19	41S	24E	NWNE	510FNL	1980FEL
Ratherford	19-33	430373104800S1	Producing	1420603353	19	41S	24E	NWSE	1980FSL	1980FEL
Ratherford	19-42	430373091600S1	Producing	1420603353	19	41S	24E	SENE	1880FNL	0660FEL
Ratherford	19-44	430373108100S1	Producing	1420603353	19	41S	24E	SESE	0660FSL	0660FEL
Ratherford	19-97	430373159600S1	Producing	1420603353	19	41S	24E	SENE	2562FNL	0030FEL
Ratherford	20-11	430373104900S1	Producing	1420603353	20	41S	24E	NWNW	0500FNL	0660FWL
Ratherford	20-13	430373091700S1	Producing	1420603353	20	41S	24E	NWSW	2140FSL	0500FWL
Ratherford	20-22	430373093000S1	Producing	1420603353	20	41S	24E	SENE	2020FNL	2090FWL
Ratherford	20-24	430373091800S1	Producing	1420603353	20	41S	24E	SESW	0820FSL	1820FWL

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	20-31	430373105001S1	Producing	1420603353	20	41S	24E	NWNE	0660FNL	1880FEL
Ratherford	20-33	430373093100S1	Producing	1420603353	20	41S	24E	NWSE	1910FSL	2140FEL
Ratherford	20-42	430373105100S1	Producing	1420603353	20	41S	24E	SENE	1980FNL	0660FEL
Ratherford	20-44	430373091501S1	Producing	1420603353	20	41S	24E	SESE	0620FSL	0760FEL
Ratherford	20-66	430373159201S1	Producing	1420603353	20	41S	24E	SWNW	1369FNL	1221FWL
Ratherford	20-68	430373159100S1	Producing	1420603353	20	41S	24E	NWSW	1615FSL	1276FWL
Ratherford	15-12	430371571501S1	Producing	1420603355	15	41S	24E	SWNW	1820FNL	0500FWL
Ratherford	15-22	430373044900S1	SI	1420603355	15	41S	24E	SENE	1980FNL	2050FWL
Ratherford	15-32	430371571700S1	Producing	1420603355	15	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	15-33	430371571800S1	Producing	1420603355	15	41S	24E	NWSE	1650FSL	1980FEL
Ratherford	15-41	430371571900S1	TA	1420603355	15	41S	24E	NENE	0660FNL	0660FEL
Ratherford	15-42	430373044800S1	Producing	1420603355	15	41S	24E	SENE	2020FNL	0820FEL
Ratherford	16-13	430373116801S1	Producing	1420603355	16	41S	24E	NWSW	1980FSL	660FWL
Ratherford	16-32	430371572300S1	Producing	1420603355	16	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	16-41	430371572500S1	Producing	1420603355	16	41S	24E	NENE	0660FNL	0660FEL
Ratherford	16-77	430373176800S1	Producing	1420603355	16	41S	24E	NESW	2587FSL	2410FWL
Ratherford	21-23	430371375400S1	Producing	1420603355	21	41S	24E	NESW	1740FSL	1740FWL
Ratherford	21-24	430373172001S1	SI	1420603355	21	41S	24E	SESW	487FSL	2064FWL
Ratherford	21-32	430371575500S1	SI	1420603355	21	41S	24E	SWNE	1880FNL	1980FEL
Ratherford	21-77	430373175801S1	SI	1420603355	21	41S	24E	NWSE	2511FSL	2446FEL
Ratherford	07-11	430373116300S1	Producing	1420603368	7	41S	24E	NWNW	0660FNL	0710FWL
Ratherford	07-13	430373116400S1	Producing	1420603368	7	41S	24E	NWSW	2110FSL	0740FWL
Ratherford	07-22	430373116500S1	Producing	1420603368	7	41S	24E	SENE	1980FNL	1980FWL
Ratherford	07-24	430373116600S1	Producing	1420603368	7	41S	24E	SESW	0880FSL	2414FWL
Ratherford	07-44	430373118900S1	SI	1420603368	7	41S	24E	SESE	0737FSL	0555FEL
Ratherford	08-12	430371599100S1	Producing	1420603368	8	41S	24E	SWNW	1909FNL	0520FWL
Ratherford	08-21	430371599300S1	Producing	1420603368	8	41S	24E	NENW	0616FNL	1911FWL
Ratherford	08-23	430371599400S1	Producing	1420603368	8	41S	24E	NESW	1920FSL	2055FWL
Ratherford	08-32	430371599500S1	Producing	1420603368	8	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	08-34	430371599600S1	Producing	1420603368	8	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	04-34	430371616400S1	Producing	14206034035	4	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	11-14	430371616700S1	Producing	14206034037	11	41S	24E	SWSW	0660FSL	0660FWL
Ratherford	09-34	430371571100S1	SI	14206034043	9	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	10-12	430371571200S1	Producing	14206034043	10	41S	24E	SWNW	1980FNL	0660FWL
Ratherford	10-14	430371571300S1	Producing	14206034043	10	41S	24E	SWSW	0510FSL	0710FWL
Ratherford	10-32	430371571400S1	TA	14206034043	10	41S	24E	SWNE	2080FNL	1910FEL
Ratherford	10-44	430373045100S1	TA	14206034043	10	41S	24E	SESE	0820FSL	0510FEL
Ratherford	29-11	430373105300S1	Producing	1420603407	29	41S	24E	NWNW	0770FNL	0585FWL
Ratherford	29-22	430373108200S1	Producing	1420603407	29	41S	24E	SENE	2130FNL	1370FWL
Ratherford	29-31	430373091401S1	Producing	1420603407	29	41S	24E	NWNE	0700FNL	2140FEL
Ratherford	29-33	430373093200S1	SI	1420603407	29	41S	24E	NWSE	1860FSL	1820FEL
Ratherford	29-34	430371534000S1	SI	1420603407	29	41S	24E	SWSE	0817FSL	2096FEL
Ratherford	29-42	430373093700S1	SI	1420603407	29	41S	24E	SENE	1850FNL	0660FEL
Ratherford	30-32	430371534200S1	Producing	1420603407	30	41S	24E	SWNE	1975FNL	2010FEL
Ratherford	28-11	430373044600S1	Producing	1420603409	28	41S	24E	NWNW	0520FNL	0620FWL

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	09-12	430371512600S1	Producing	14206035045	9	41S	24E	SWNW	1865FNL	0780FWL
Ratherford	09-14	430371512700S1	Producing	14206035046	9	41S	24E	SWSW	0695FSL	0695FWL
Ratherford	04-14	430371616300S1	Producing	14206035446	4	41S	24E	SWSW	0500FSL	0660FWL
Ratherford	03-12	430371562000S1	Producing	14206036506	3	41S	24E	SWNW	2140FNL	0660FWL

Water Source Wells (Feb 2006)

RU	S1	4303700001	Active
RU	S2	4303700002	Active
RU	S3	4303700003	Active
RU	S4	4303700004	Active
RU	S5	4303700005	Active
RU	S6	4303700006	Active
RU	S7	4303700007	Active
RU	S8	4303700008	Active
RU	S9	4303700009	Active
RU	S10	4303700010	Active
RU	S11	4303700011	Active
RU	S12	4303700012	Active
RU	S13	4303700013	Active
RU	S14	4303700014	Active
RU	S16	4303700016	Active
RU	S17	4303700017	Active

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-353
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO 7. UNIT or CA AGREEMENT NAME: RATHERFORD
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: RATHERFORD UNIT 19-13
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	9. API NUMBER: 43037317190000
3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	PHONE NUMBER: 303 534-4600 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 0660 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 19 Township: 41.0S Range: 24.0E Meridian: S	9. FIELD and POOL or WILDCAT: GREATER ANETH COUNTY: SAN JUAN STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/15/2015 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input checked="" type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="perf lower Ismay"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice of a tubing repair and plans to perf the lower ismay. Attached are the procedures and schematic

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**

Date: April 08, 2015
 By: Derek Duff

NAME (PLEASE PRINT) Erin Joseph	PHONE NUMBER 303 573-4886	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 4/6/2015	

Resolute

Natural Resources

RU 18-13 Producer - Open Lower Ismay & Tubing Repair

Procedure**Horsley Wlitten: NO**

1. MIRU WSU, LOTO. **NOTE: No tubing detail available; WBD depths are approximate.**
2. Pressure test tubing to 1000 psig.
3. Kill well as necessary.
4. POOH with rods & 1-3/4 insert pump, standing back for inspection. Call Bill Albert (970) 371-9682 to inspect rods. If unavailable, contact Tech Support: Virgil Holly (435) 444-0020, or Nate Dec. If rods are replaced, run reconditioned if available in Resolute stock; if not, run new.
5. ND WH, NU BOPE, prepare to pull & lay down 2-7/8 tubing (run in 2002).
6. Release the TAC, believed to be at ~5350'. Pick up tubing & install a packer to test BOP; pressure test BOPE. LD packer.
7. Tally & POOH, laying down 2-7/8 tubing and bha. Call Bill Albert (970) 371-9682 to inspect tubing. Replacement tbg to be 2-7/8 YB.
8. Make bit & scraper run to 5646' PBD, with scraper spaced to stay above top perf at 5512'. Circulate clean on bottom w/FW; if fill is present & no circ, consider using a bailer before using N2 for the cleanout. POOH w/bit & scraper.
9. RU E-line to perforate Lower Ismay from 5469' to 5473' KB (4') using 3-1/8" Slick Guns loaded at 4 spf. Use 1/3/1994 Basin Well Logging GR-CCL for depth tie-in - see Jim Styler. **NOTE** short joint at 5152-68' KB. RD E-line.
10. RIH w/7" RBP & set at ~5492' to isolate & acidize new perms. Collars at 5484' & 5530' KB (13' KB). POOH.
11. RIH w/7" treating packer w/bypass, 2 jts tailpipe, to acidize with 2000 gal inhibited 28% HCl acid w/iron control.
12. Set packer at ~5412' w/tailpipe to ~5475'. Collars at 5393' & 5438' KB (13' KB).
13. With bypass open, circulate the acid down to the packer and up the backside to top perf at 5469', close bypass and put 500 psi back on the annulus; soak 15 minutes.
14. Displace acid away w 52 bbls fresh water (tbg vol + 20 bbls). Pump at max rate possible w 3500 psi TP limit. Shut down for minimum 2 hr soak, or overnight if convenient.
15. Flow the well back, or swab until 125% of the treatment fluid (~130 bbls) is recovered.
16. Re-kill the well, POOH & LD treating packer. RIH & retrieve RBP.
17. TIH w 3-1/2 SMA joint, x-over, 2-7/8 carbon steel SN, x-over, 3-1/2" blast jt, x-over, 3 jts tbg, TAC, 2-7/8 tbg to surface. Set TAC at ~ 5448' (collar at 5438'); EOT at ~ 5610' as before.
18. Land tubing. NDBOP, NUWH.
19. RIH with 1-1/4" x 16' GA, new insert pump, & rods. Contact Tech Support for pump & rod details.
20. Long stroke pump to test for good pumping action.
21. Leave enough polished rod for operators to correctly space pump as required.
22. Notify the Area Production Supervisor Alfred Redhouse (435) 619-7227 that well is ready to return to production.
23. RDMOL. Hook up appropriate chemical treatment.

RATHERFORD UNIT # 19-13

GREATER ANETH FIELD

1980' FSL & 660' FWL

SEC 19-T41S-R24E

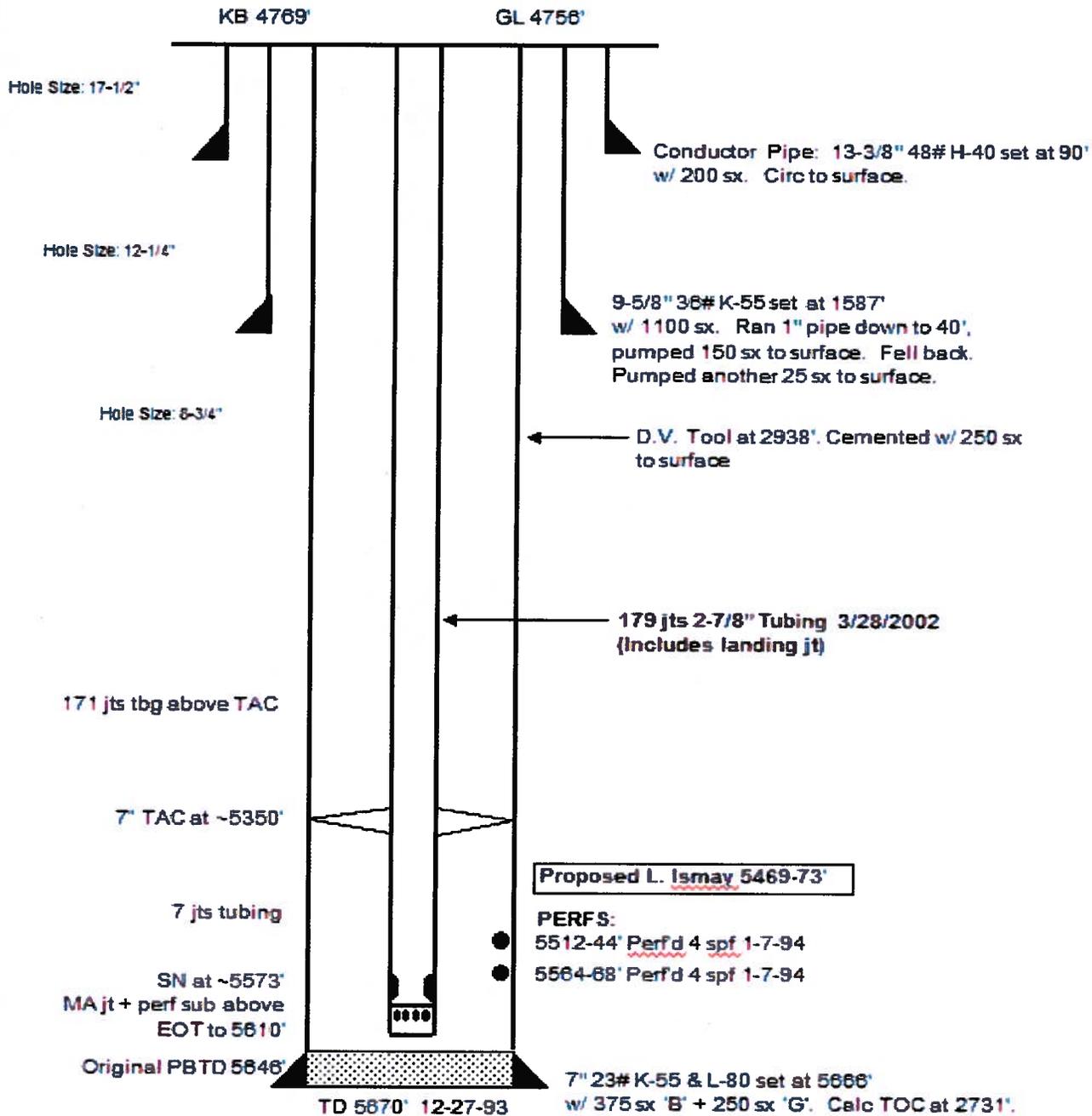
SAN JUAN COUNTY, UTAH

API 43-037-31719

PRISM 0043259

PRODUCER

Capacities:	bbbl/ft	gal/ft	cuft/ft
2-7/8" 6.5#	.00579	.2431	.0325
7" 23#	.0393	1.6535	.2210
2-7/8" 7" 23#	.0313	1.3162	.1760



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-353
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SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO 7. UNIT or CA AGREEMENT NAME: RATHERFORD
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1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: RATHERFORD UNIT 19-13
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2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	9. API NUMBER: 43037317190000
---	---

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	PHONE NUMBER: 303 534-4600 Ext	9. FIELD and POOL or WILDCAT: GREATER ANETH
--	--	---

4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 0660 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 19 Township: 41.0S Range: 24.0E Meridian: S	COUNTY: SAN JUAN STATE: UTAH
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/12/2015 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input checked="" type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice of a tubing repair on the above well. Attached are the procedures and schematic

Accepted by the Utah Division of Oil, Gas and Mining

Date: ~~December 15, 2015~~

By: *Derek Duff*

NAME (PLEASE PRINT) Erin Joseph	PHONE NUMBER 303 573-4886	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 12/10/2015	

Resolute

Natural Resources

Re: RU 19-13 Producer - Hole in Tubing Repair

Procedure

Horsley Witten: NO

1. MIRU WSU, LOTO. **NOTE: No tubing detail available; WBD depths are approximate.**
2. Pressure test tubing to 1000 psig. Expect failing test.
3. Kill well as necessary.
4. POOH with rods & 1-3/4 insert pump, standing back for inspection. Call Bill Albert (970) 371-9682 to inspect rods. If unavailable, contact Tech Support: Virgil Holly (435) 444-0020, or Nate Dee. If rods are replaced, run reconditioned, if available in Resolute stock; if not, run new.
5. ND WH, NU BOPE, prepare to pull & lay down 2-7/8 tubing (run in 2002).
6. Release the 7" TAC, believed to be at ~5350'. Pick up tubing & install a packer to test BOP; pressure test BOPE. LD packer.
7. Tally & POOH, laying down 2-7/8 tubing and bha. Call Bill Albert (970) 371-9682 to inspect tubing. Replacement tbg to be YB.
8. Make bit & scraper run to 5646' PBD, with scraper spaced to stay above top perf at 5512'. Circulate clean on bottom w/FW; if fill is minimal & no circ, consider using a bailer before using N2
9. TIH w 3-1/2 SMA joint, x-over, 2-7/8 carbon steel SN, x-over, 3-1/2" blast jt, x-over, 3 jts tbg, TAC, 2-7/8 tbg to surface; set TAC at ~ 5442'; EOT at ~ 5610' as before.
10. Land tubing. NDBOP, NUWH.
11. RIH with 1-1/4 x 16' GA, new insert pump, & rods. Contact Tech Support for pump & rod details.
12. Long stroke pump to test for good pumping action.
13. Leave enough polished rod for operators to correctly space pump as required.
14. Notify the Area Production Supervisor Alfred Redhouse (435) 619-7227 that well is ready to return to production.
15. RDMOL. Hook up appropriate chemical treatment.

RATHERFORD UNIT # 19-13

GREATER ANETH FIELD

1980' FSL & 660' FWL

SEC 19-T41S-R24E

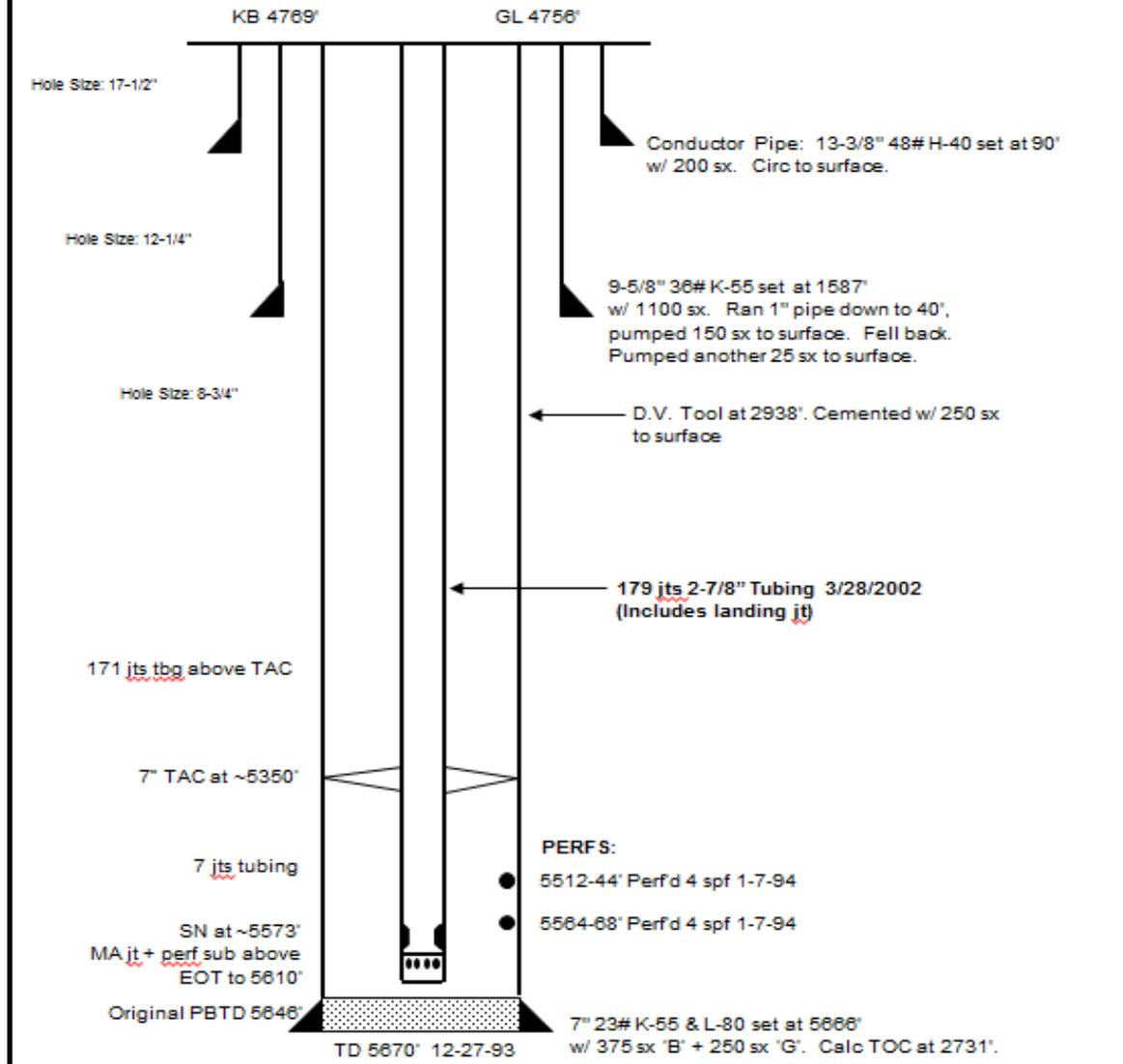
SAN JUAN COUNTY, UTAH

API 43-037-31719

PRISM 0043259

PRODUCER

Capacities:	dbl/ft	gal/ft	cuft/ft
2-7/8" 6.5#	.00579	.2431	.0325
7" 23#	.0393	1.6535	.2210
2-7/8" x 7" 23#	.0313	1.3162	.1760



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-353
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO 7. UNIT or CA AGREEMENT NAME: RATHERFORD
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: RATHERFORD UNIT 19-13
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	9. API NUMBER: 43037317190000
3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	PHONE NUMBER: 303 534-4600 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 0660 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 19 Township: 41.0S Range: 24.0E Meridian: S	9. FIELD and POOL or WILDCAT: GREATER ANETH COUNTY: SAN JUAN STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/5/2016 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice of a casing repair on the above well. Attached is the Procedures and Schematic

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**

Date: February 04, 2016
 By: *Dark Oust*

NAME (PLEASE PRINT) Erin Joseph	PHONE NUMBER 303 573-4886	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 2/1/2016	

Resolute

Natural Resources

Re: RU 19-13 HIT & Csg Leak Repair

Procedure

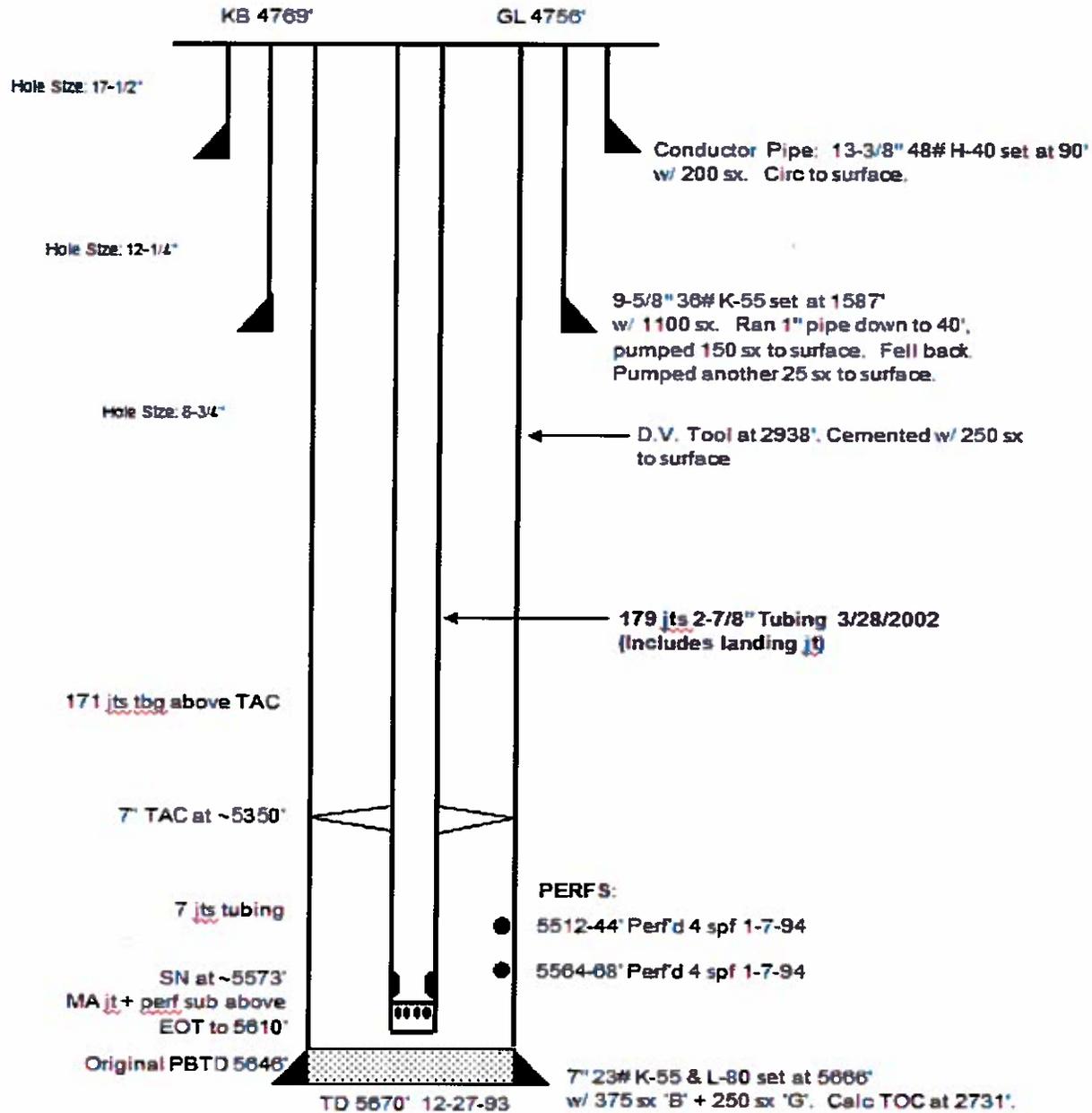
Horsley Witten: NO

1. MIRU WSU, LOTO. **NOTE: 7" x 9-5/8" communication present; verify this is not due to a leaking wellhead packoff prior to WSU rig up.**
2. Pressure test tubing to 1000 psig. Expect failing test. **NOTE: No tubing detail available; WBD depths are approximate.**
3. Kill well as necessary. Close pipe rams & pump down tbg x csg annulus while monitoring BH for returns to confirm communication csg to BH.
4. POOH with rods & 1-3/4 insert pump, standing back for inspection. Call Bill Albert (970) 371-9682 to inspect rods. If unavailable, contact Tech Support: Virgil Holly (435) 444-0020, or Nate Dee. If rods are replaced, run reconditioned if available in Resolute stock; if not, run new.
5. ND WH, NU BOPE, prepare to pull & lay down 2-7/8 tubing (run in 2002).
6. Release the 7" TAC, believed to be at ~5350'. Pick up tubing & install a packer to test BOP; pressure test BOPE. LD packer.
7. Tally & POOH, laying down 2-7/8 tubing and bha. Call Bill Albert (970) 371-9682 to inspect tubing. Replacement tbg to be YB.
8. Make bit & scraper run to 5646' PBD, with scraper spaced to stay above top perf at 5512'. Circulate clean on bottom w/FW; if fill is minimal & no circ, consider using a bailer for cleanout.
9. RIH with 7" test packer and isolate 7" casing leak. Pump at least 10 bbls & try to confirm circulation to surface via BH. POOH.
10. Perform 7" casing cement repair. Separate procedure to be issued, depending on step 9 results.
11. Cleanout cement to PBD following 7" repairs. Run test packer to ~5500', PT 7" csg to 500 psi/30 min & chart the results. POOH.
12. TIH w 3-1/2 SMA joint, x-over, 2-7/8 carbon steel SN, x-over, 3-1/2" blast jt, x-over, 3 jts tbg, TAC, 2-7/8 YB tbg to surface; set TAC at ~ 5442'; EOT at ~ 5610' as before.
13. Land tubing. NDBOP, NUWH.
14. RIH with 1-1/4 x 16' GA, new 1-3/4" insert pump, & rods. Contact Tech Support for pump & rod details.
15. Long stroke pump to test for good pump action.
16. Leave enough polished rod for operators to correctly space pump as required.
17. Notify the Area Production Supervisor Alfred Redhouse (435) 619-7227 that well is ready to return to production.
18. RDMOL. Hook up appropriate chemical treatment.

RATHERFORD UNIT # 19-13
GREATER ANETH FIELD
 1980' FSL & 660' FWL
 SEC 19-T41S-R24E
 SAN JUAN COUNTY, UTAH
 API 43-037-31719
 PRISM 0043259

PRODUCER

Capacities:	bbl/ft	gal/ft	cuft/ft
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7" 23#	.0393	1.6535	.2210
2-7/8" 7.23#	.0313	1.3162	.1760



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3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	PHONE NUMBER: 303 534-4600 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 0660 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 19 Township: 41.0S Range: 24.0E Meridian: S	9. FIELD and POOL or WILDCAT: GREATER ANETH COUNTY: SAN JUAN STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/1/2016 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural resources respectfully submits this sundry as notice of a T&A on the above well. Verbal approval was obtained from Troy Salyers @ the BLM. Procedures will be as follows: 1) RIH open ended and spot sand on top of the RBP at 5498'. 2) Spot inhibited packer fluid above the sand/RBP. 3) Pick up to 3160' and spot in 22 bbls (560') Type III 14.6 ppg balanced plug cement to ~2600'. 4) Pick up out of cement, reverse out, and squeeze to 500 psi or 4 bbls behind pipe, whichever occurs first; Four bbls behind pipe, with initial spotted cmt top at 2600' gives final cmt top of 2702'. 5) Wait on cement, then go back down and tag the cement top. 6) Displace the wellbore to inhibited packer fluid to surface. 7) Run and hang off 2-7/8" kill string to a depth of ~2600'. 8) Install B-1 flange and master valve. 9) Pressure test the 7" casing to 500 psi (witnessed by Navajo Minerals) above the plug at ~2700', chart the results. 10) Rig down & move off.

**Accepted by the
Utah Division of
Oil, Gas and Mining**

Date: April 05, 2016
 By: *Derek Duff*

NAME (PLEASE PRINT) Erin Joseph	PHONE NUMBER 303 573-4886	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 3/31/2016	

RATHERFORD UNIT # 19-13

GREATER ANETH FIELD

1980' FSL & 660' FWL

SEC 19-T41S-R24E

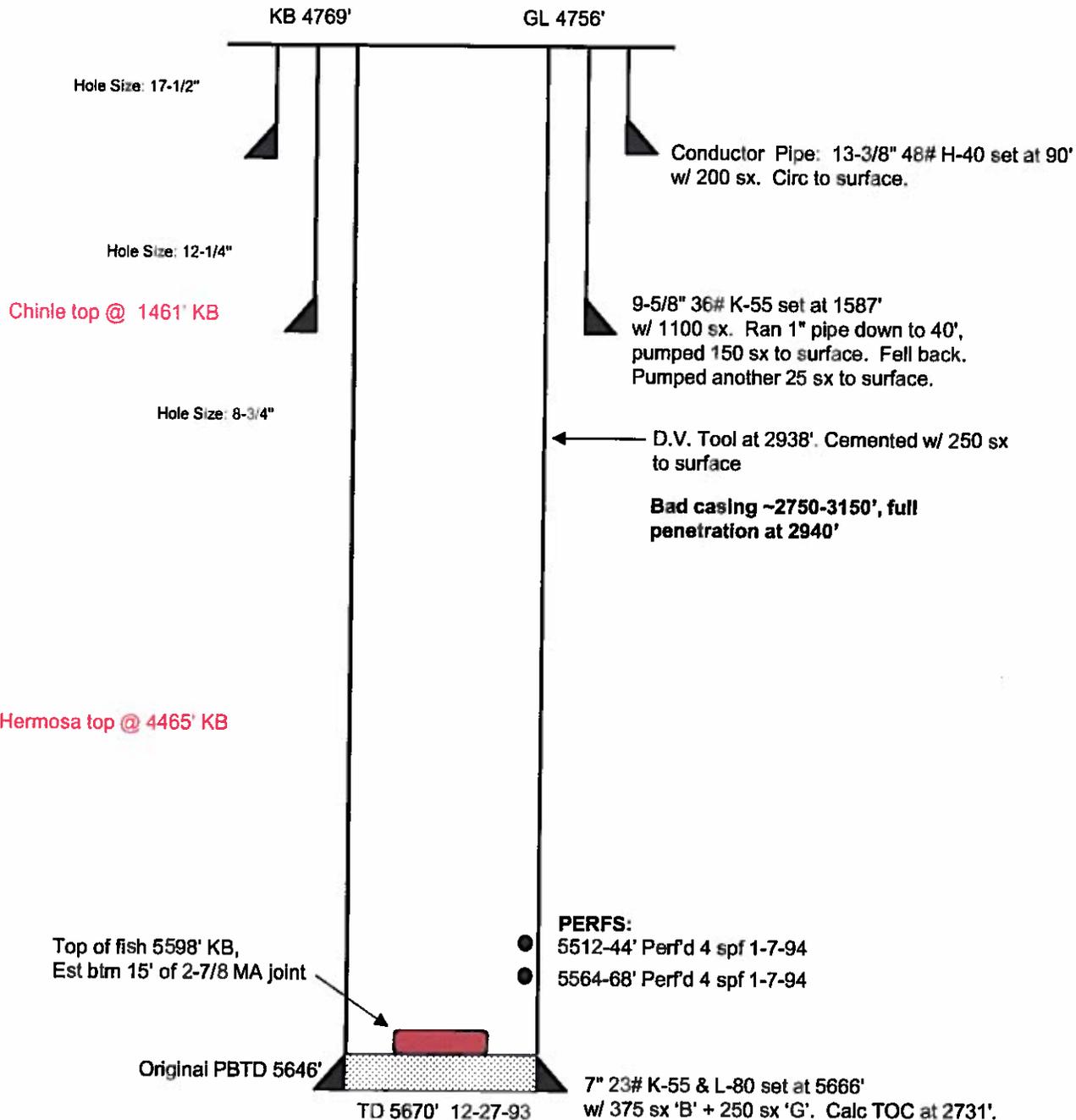
SAN JUAN COUNTY, UTAH

API 43-037-31719

PRISM 0043259

PRODUCER

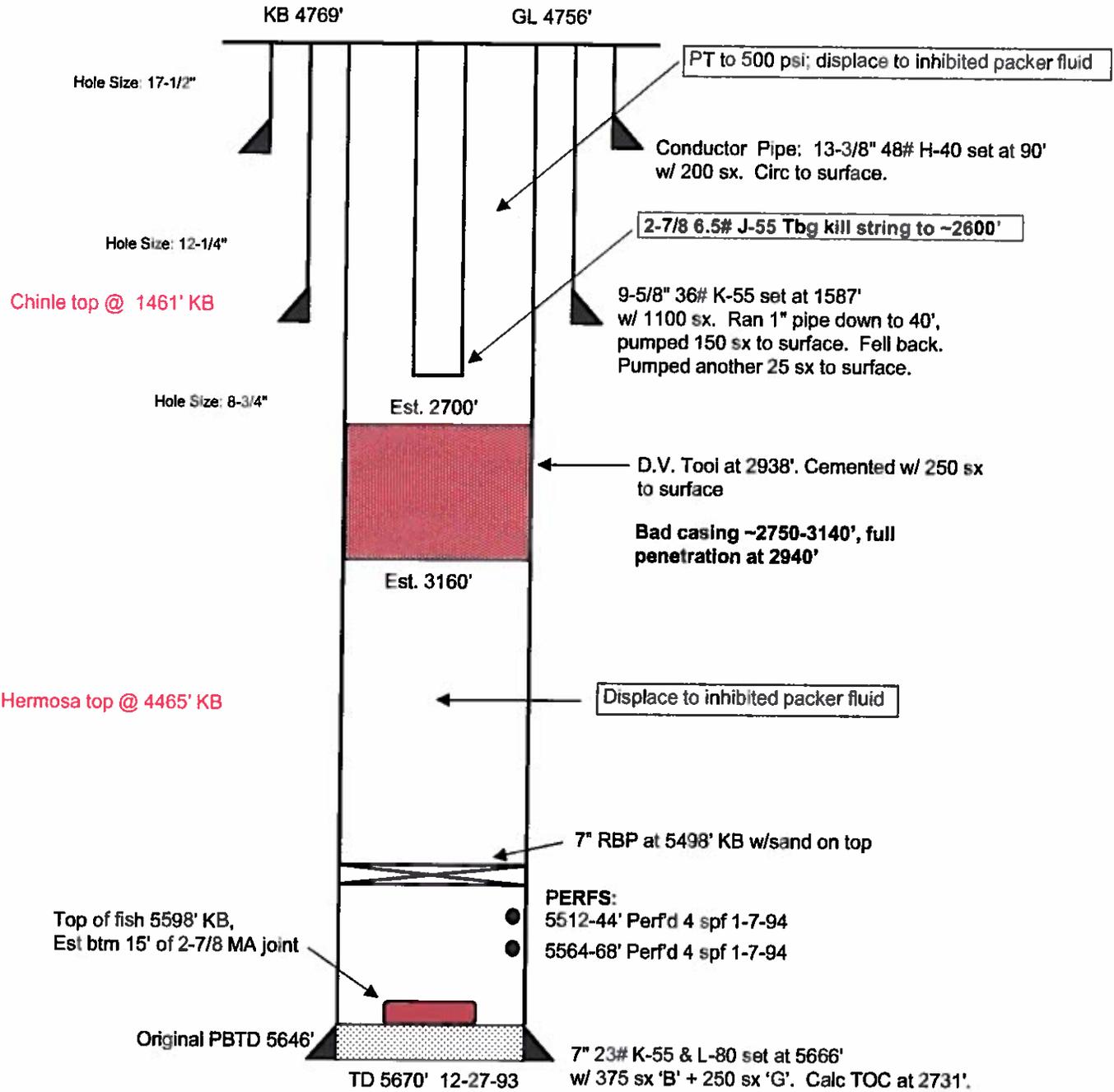
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7" 23#	.0393	1.6535	.2210
2-7/8"x7"23#	.0313	1.3182	.1780



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 1980' FSL & 660' FWL
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Capacities:	bbf/f	gal/f	cuf/f
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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-353
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		7. UNIT or CA AGREEMENT NAME: RATHERFORD
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		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/6/2016 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Resolute Natural Resources respectfully submits this sundry as notice that the casing repair on the above well was completed on 4/6/16 according to previously approved procedures		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 13, 2016		
NAME (PLEASE PRINT) Erin Joseph	PHONE NUMBER 303 573-4886	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 5/13/2016	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-353
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TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/6/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input checked="" type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice that the well was T&A'd 4/6/2016. Attached are the job summary report and the updated schematic

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 25, 2016

NAME (PLEASE PRINT) Erin Joseph	PHONE NUMBER 303 573-4886	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 11/3/2016	

Ratherford Unit 19-13 Producer Temporary Abandonment

Activity Summary 3/24/16 – 4/6/16:

This workover began with intent to repair a tubing leak and casing leak and return the well to production. However, during the rig operations, more extensive 7" casing damage was confirmed, suggesting that a liner would be necessary to properly repair the casing. It was then determined that the additional cost of the liner could not be economically justified, thus the decision to TA the well.

Moved in & rigged up WSU on 3/24/2016, killed well with produced water & pulled & LD 99 x 7/8" and 121 x 3/4" rods, stabilizer sub, and pump. Remove slips & slip bowl, release TAC; NU BOP/Hydril & test – 200 psi low, 800 psi high - good test. POOH with 2-7/8 production tubing & bha. Recovered only 17' of the 2-7/8" mud anchor joint; approx. 15' fish left in hole due to severe corrosion.

PU bit & csg scraper, RIH & tag 5598', top of fish. TOOH. Ran 7" test packer & RBP, set RBP at 5498'. Used test packer to confirm & locate casing leak. 2703' to surface tested good for 30 min; 2829' down to RBP also tested good at 500 psi; Leakoff rate between 2703' & 2829' was 100 psi/5 min. Surface csg also noted to rise in pressure when pressure is applied to the 7". POOH w/packer, RU electric line. Ran casing inspection and cement bond logs 5490' to surface. RD electric line.

At this point Resolute notified Troy Salyers and Jack Savage by e-mail (March 31) to report the extent of casing damage and provided e-copies of the logs and a tentative procedural outline for temporary abandonment. Chinle isolation had been previously taken care of and this well is not listed in the Horsley-Witten study. Verbal approval to proceed with TA was received that afternoon of March 31, 2016.

RIH 87 jts tbg w/pkr & placed 5 sx sand on RBP at 5498'. Pulled & LD pkr. RIH with open ended workstring to 3167' for casing leak cement squeeze. Spot in & RU cementers, PT hard lines. Spotted 107 sx/22.48 bbls balanced plug of Type B cement, 15.4 ppg, 1.18 yield, from 3167' to 2596'. POOH w/workstring, closed rams & pressured up on the cement to 500 psi, then re-pressured to 500 several times until 0.75 bbls were squeezed away and a final pressure of 500 psi was reached & was holding steady. Cleaned up & RD cementers. Cementing ops were witnessed by Larsen Nez/Navajo Nation Minerals. WOC overnight.

RIH w/open ended workstring & tag top of cement at 2657'. Circulated inhibited packer fluid in place above cement, TOOH w/workstring, ND BOP/Hydril. Set 7" rbp at 635' & removed & replaced wellhead 'B' section to repair the leak that allowed communication from 7" to surface csg earlier. PT'd seal to 1250 psi – good test. Pulled & LD rbp from 635'. Topped off 7" casing w/brine & did mock MIT to 500 psi/30 min with surface csg valve open. Good test.

Rigged down WSU & moved off.

Performed witnessed 7" casing MIT on 4-6-2016: Pressured to 520 psi/30 min with chart recorder, lost 5 psi. PASSED WMIT, witnessed by Larsen Nez, Navajo Nation Minerals.

RATHERFORD UNIT # 19-13

GREATER ANETH FIELD

1980' FSL & 660' FWL

SEC 19-T41S-R24E

SAN JUAN COUNTY, UTAH

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