

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS  \_\_\_\_\_  \_\_\_\_\_ WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB REPORT/abd. \_\_\_\_\_

93106 Phillips to MEPNA et 7-1-93:

Corrected WCB Copy

DATE FILED 11-28-90

LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. \_\_\_\_\_ INDIAN SW-I-4192

DRILLING APPROVED: 12-3-90

SPUDED IN: 1-0-91

COMPLETED: 5-6-91 POW PUT TO PRODUCING: 5-3-91

INITIAL PRODUCTION: 40 BOPD, 6 MCF, 7 BWPD

GRAVITY API \_\_\_\_\_

GOR: 150

PRODUCING ZONES: 5566-5618 (DESERT CREEK)

TOTAL DEPTH: 5739' & 5790'

WELL ELEVATION: 4790 GL

DATE ABANDONED: \_\_\_\_\_

FIELD: GREATER ANETH

UNIT: RATHERFORD

COUNTY: SAN JUAN

WELL NO. RATHERFORD 20-67 API NO. 43-037-31590

LOCATION 2629' FSL FT. FROM (N) (S) LINE. 1412' FWL FT. FROM (E) (W) LINE. NE SW 1/4 - 1/4 SEC. 20

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				41S	24E	20	MEPNA MOBIL EXPLOR & PROD

QUATERNARY	Star Point	Chinle		Molas
Alluvium	Wahweap	Shinarump	2371'	Manning Canyon
Lake beds	Masuk	Moenkopi		Mississippian
Pleistocene	Colorado	Sinbad		Humbug
Lake beds	Sego	PERMIAN		Brazer
TERTIARY	Buck Tongue	Kaibab		Pilot Shale
Pliocene	Castlegate	Coconino		Madison
Salt Lake	Mancos	Cutler		Leadville
Oligocene	Upper	Hoskinnini		Redwall
Norwood	Middle	DeChelly	2641'	DEVONIAN
Eocene	Lower	White Rim		Upper
Duchesne River	Emery	Organ Rock		Middle
Uinta	Blue Gate	Cedar Mesa		Lower
Bridger	Ferron	Halgaite Tongue		Ourray
Green River	Frontier	Phosphoria		Elbert
	Dakota	Park City		McCracken
	Burro Canyon	Rico (Goodridge)		Aneth
	Cedar Mountain	Supai		Simonson Dolomite
	Buckhorn	Wolfcamp		Sevy Dolomite
	JURASSIC	CARBON I FEROUS		North Point
Wasatch	Morrison	Pennsylvanian		SILURIAN
Stone Cabin	Salt Wash	Oquirrh		Laketown Dolomite
Colton	San Rafeal Gr.	Weber		ORDOVICIAN
Flagstaff	Summerville	Morgan		Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	4609'	Pogonip Limestone
Almy	Curtis			CAMBRIAN
Paleocene	Entrada	Pardox		Lynch
Current Creek	Moab Tongue	Ismay	5403'	Bowman
North Horn	Carmel	<del>XXXXXX</del> Gothic	5541'	Tapeats
CRETACEOUS	Glen Canyon Gr.	<del>XXX</del> Desert Creek	5553'	Ophir
Montana	Navajo	Barker Creek		Tintic
Mesaverde	Kayenta			PRE - CAMBRIAN
Price River	Wingate	Cane Creek		
Blackhawk	TRIASSIC			

# Mobil Oil Corporation

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

May 14, 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

RECEIVED  
MAY 16 1986

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,



R. D. Baker  
Environmental Regulatory Manager

CNE/rd  
CNE8661

# APPLICATION FOR TEMPORARY CHANGE OF WATER

RECEIVED  
AUG 15 1990

RECEIVED

AUG 10 1990

Rec. by \_\_\_\_\_  
Fee Paid \$ \_\_\_\_\_  
Receipt # \_\_\_\_\_  
Microfilm \_\_\_\_\_  
Roll # \_\_\_\_\_

## STATE OF UTAH

DIVISION OF  
OIL, GAS & MINING

WATER RIGHTS  
PRICE

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

\*WATER RIGHT NO. 09 Area \_\_\_\_\_ \*APPLICATION NO. t 90 .09 .01

Changes are proposed in (check those applicable)

\_\_\_\_\_ point of diversion.  place of use.  nature of use. \_\_\_\_\_ period of use.

### 1. OWNER INFORMATION

Name: Phillips Petroleum Company \*Interest: 100 %

Address: 152 North Durbin Floor 2

City: Casper State: Wyoming Zip Code: 82601

2. \*PRIORITY OF CHANGE: August 10, 1990 \*FILING DATE: August 10, 1990

\*Is this change amendatory? (Yes/No): No

3. RIGHT EVIDENCED BY: 09-281 (A32773)

Prior Approved Temporary Change Applications for this right: None

\*\*\*\*\* HERETOFORE \*\*\*\*\*

4. QUANTITY OF WATER: 8.0 cfs and/or \_\_\_\_\_ ac-ft.

5. SOURCE: (20) Underground Wells

6. COUNTY: San Juan

7. POINT(S) OF DIVERSION: See Attached Sheet

Description of Diverting Works: All 16-inch diameter, 20-30 feet deep

### 8. POINT(S) OF REDIVERSION

The water has been rediverted from \_\_\_\_\_ at a point: \_\_\_\_\_

Description of Diverting Works: \_\_\_\_\_

### 9. POINT(S) OF RETURN

The amount of water consumed is 8.0 cfs or \_\_\_\_\_ ac-ft.

The amount of water returned is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft.

The water has been returned to the natural stream/source at a point(s): \_\_\_\_\_

\*These items are to be completed by the Division of Water Rights.

10. NATURE AND PERIOD OF USE

Irrigation: From \_\_\_\_\_ to \_\_\_\_\_
Stockwatering: From \_\_\_\_\_ to \_\_\_\_\_
Domestic: From \_\_\_\_\_ to \_\_\_\_\_
Municipal: From \_\_\_\_\_ to \_\_\_\_\_
Mining: From \_\_\_\_\_ to \_\_\_\_\_
Power: From \_\_\_\_\_ to \_\_\_\_\_
Other: Oilfield From January 1 to December 31

11. PURPOSE AND EXTENT OF USE

Irrigation: \_\_\_\_\_ acres. Sole supply of \_\_\_\_\_ acres.
Stockwatering (number and kind): \_\_\_\_\_
Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons.
Municipal (name): \_\_\_\_\_
Mining: \_\_\_\_\_ Mining District in the \_\_\_\_\_ Mine.
Ores mined: \_\_\_\_\_
Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_
Other (describe): Oilfield pressure maintenance and secondary recovery uses.

12. PLACE OF USE

Legal description of place of use by 40 acre tract(s): Ratherford Unit in San Juan County.

13. STORAGE

Reservoir Name: \_\_\_\_\_ Storage Period: from \_\_\_\_\_ to \_\_\_\_\_
Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres.
Height of dam: \_\_\_\_\_ feet.
Legal description of inundated area by 40 tract(s): \_\_\_\_\_

\*\*\*\*\* THE FOLLOWING CHANGES ARE PROPOSED \*\*\*\*\*

14. QUANTITY OF WATER: \_\_\_\_\_ cfs and/or 3.0 ac-ft.
15. SOURCE: (20) Underground Water Wells
Balance of the water will be abandoned: \_\_\_\_\_, or will be used as heretofore: X
16. COUNTY: San Juan
17. POINT(S) OF DIVERSION: Same as Heretofore

Description of Diverting Works:
\*COMMON DESCRIPTION: 2 miles SE of Montezuma Creek Montezuma Creek Quad

18. POINT(S) OF REDIVERSION

The water will be rediverted from \_\_\_\_\_ at a point: \_\_\_\_\_

Description of Diverting Works: \_\_\_\_\_

19. POINT(S) OF RETURN

The amount of water to be consumed is \_\_\_\_\_ cfs or 3.0 ac-ft.
The amount of water to be returned is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft.
The water will be returned to the natural stream/source at a point(s): \_\_\_\_\_

20. NATURE AND PERIOD OF USE

Irrigation: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_
Stockwatering: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_
Domestic: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_
Municipal: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_
Mining: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_
Power: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_
Other: From 8 / 10 / 90 to 8 / 9 / 91

21. PURPOSE AND EXTENT OF USE

Irrigation: \_\_\_\_\_ acres. Sole supply of \_\_\_\_\_ acres.
Stockwatering (number and kind): \_\_\_\_\_
Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons.
Municipal (name): \_\_\_\_\_
Mining: \_\_\_\_\_ Mining District at the \_\_\_\_\_ Mine.
Ores mined: \_\_\_\_\_
Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_
Other (describe): Oil & gas well construction and other associated uses.

22. PLACE OF USE

Legal description of place of use by 40 acre tract(s):
Ratherford Unit 12W-44A: SE1/4SE1/4 Sec. 12, T41S, R23E, SLB&M
Ratherford 11-41: NE1/4NE1/4 Sec. 11, T41S, R23E, SLB&M.

23. STORAGE

Reservoir Name: \_\_\_\_\_ Storage Period: from \_\_\_\_\_ to \_\_\_\_\_
Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres.
Height of dam: \_\_\_\_\_ feet.
Legal description of inundated area by 40 tract(s): \_\_\_\_\_

24. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary):
3.0 acre feet of water will be taken from the Ratherford Unit well complex and used for the construction of two additional wells.

\*\*\*\*\*

The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

S. A. Oden
Signature of Applicant(s)

Application for Temporary Change of Water  
Phillips Petroleum Company

Paragraph #7 Heretofore Points of Diversion and  
Paragraph #17 Hereafter Points of Diversion

- 1) S. 950 ft. & W. 148 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M
- 2) S. 1014 ft. & W. 442 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M
- 3) S. 1007 ft. & W. 741 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M
- 4) S. 1010 ft. & W. 592 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M
- 5) S. 982 ft. & W. 294 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M
- 6) S. 887 ft. & W. 2 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M
- 7) S. 863 ft. & E. 145 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M
- 8) S. 843 ft. & E. 293 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M
- 9) S. 818 ft. & E. 440 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M
- 10) S. 803 ft. & E. 590 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M
- 11) S. 789 ft. & E. 739 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M
- 12) S. 803 ft. & E. 1137 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M
- 13) S. 802 ft. & E. 1334 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M
- 14) S. 759 ft. & E. 1529 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M
- 15) S. 715 ft. & E. 1725 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M
- 16) S. 672 ft. & E. 1920 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M
- 17) S. 1792 ft. & W. 352 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M
- 18) S. 1792 ft. & W. 952 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M
- 19) S. 1792 ft. & W. 652 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M
- 20) S. 1714 ft. & W. 1545 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M

STATE ENGINEER'S ENDORSEMENT

TEMPORARY CHANGE APPLICATION NUMBER: t90-09-01

1. August 10, 1990      Change Application received.
2. August 13, 1990      Application designated for APPROVAL by MP.
3. Comments:

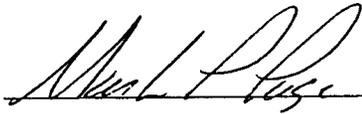
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Conditions:

This application is hereby APPROVED, dated August 13, 1990, subject to prior rights and this application will expire on August 9, 1991.



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Mark Page, Area Engineer  
for  
Robert L. Morgan, State Engineer

**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  
Phillips Petroleum Company

3. ADDRESS OF OPERATOR  
152 N. Durbin, 2nd Floor, Casper, WY 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
 At surface 1412' FWL & 2629' FSL, Sec. 20 (NEGSW) T41S R24E  
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 4 miles SW of Montezuma Creek, Utah

16. NO. OF ACRES IN LEASE <u>2534</u>	17. NO. OF ACRES ASSIGNED TO THIS WELL <u>20</u>
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <u>896'</u>	20. ROTARY OR CABLE TOOLS <u>Rotary</u>
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>4790' GR</u>	22. APPROX. DATE WORK WILL START* <u>Upon Approval</u>

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#	120'	Circulate to Surface
12-1/4"	9-5/8"	36#	1670'	Circulate to Surface
8-3/4"	7"	20#, 23#, 26#	5750'	Desired TOC is 1570'. Final volume will be based on caliper hole volume, plus 20%

Phillips Petroleum Company proposes to drill a 5750' development well to the Desert Creek Formation. Blow out preventers will be tested weekly.

I hereby certify that I am responsible under the terms and conditions of the lease to conduct lease operations in conjunction with the application.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Phillips Petroleum Company

cc: 0+6 BLM Farmington - 1 P.J. Konkel - 1 R. Redington - 2 Utah O&GCC - 1 L.E. Hasely  
 1 R. C. Arnim - 1 Casper RC - 1 M.L. Menghini

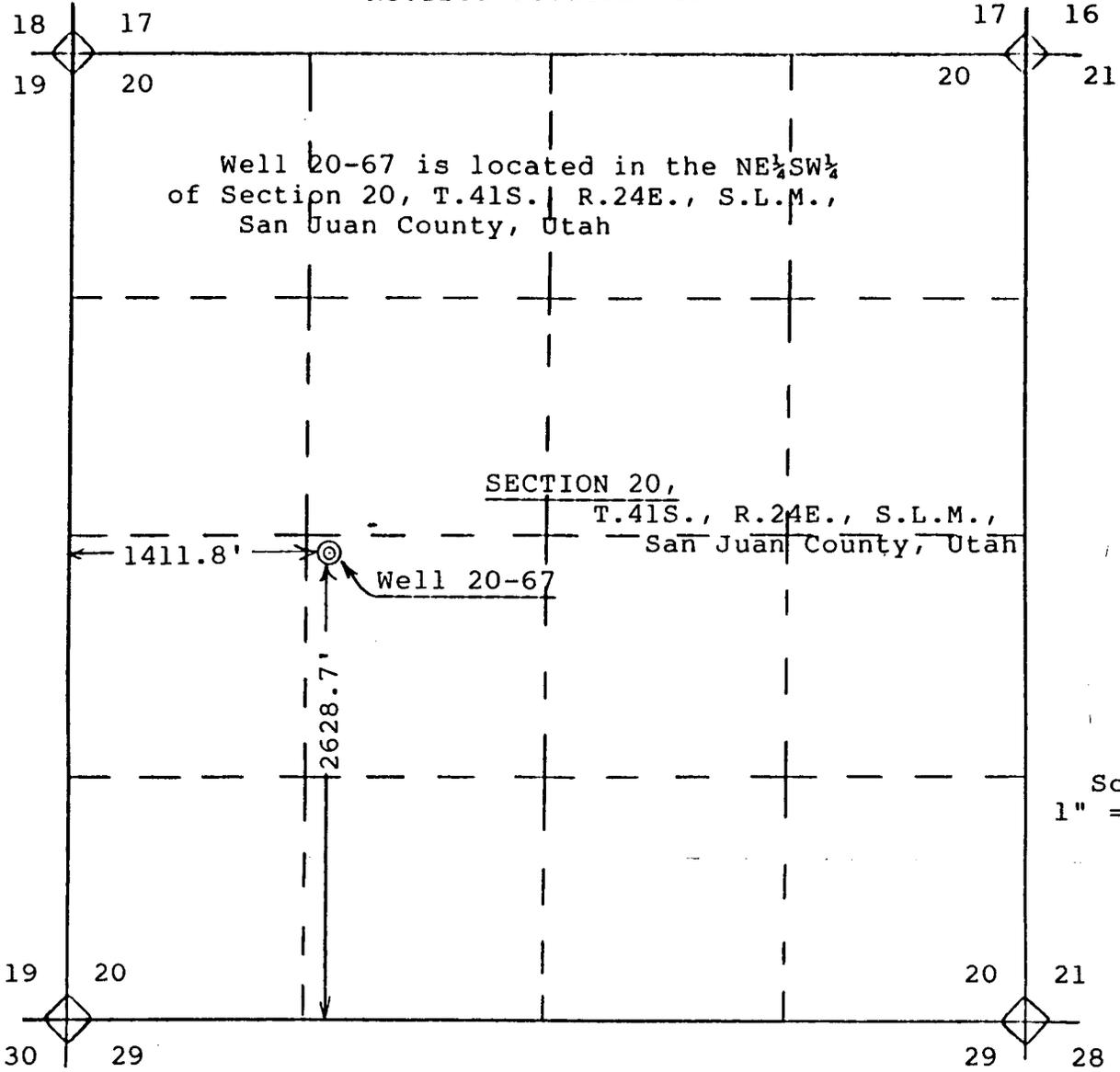
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

24. SIGNED A. A. Oden S. H. Oden TITLE District Superintendent DATE 11-21-90

(This space for Federal or State office use)  
 API PERMIT NO. 43-037-31590 APPROVAL DATE \_\_\_\_\_  
 OF UTAH DIVISION OF OIL, GAS, AND MINING

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE: 12-3-90  
 BY: [Signature]  
 CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_  
 WELL SPACING: Rutherford Unit

\*See Instructions On Reverse Side



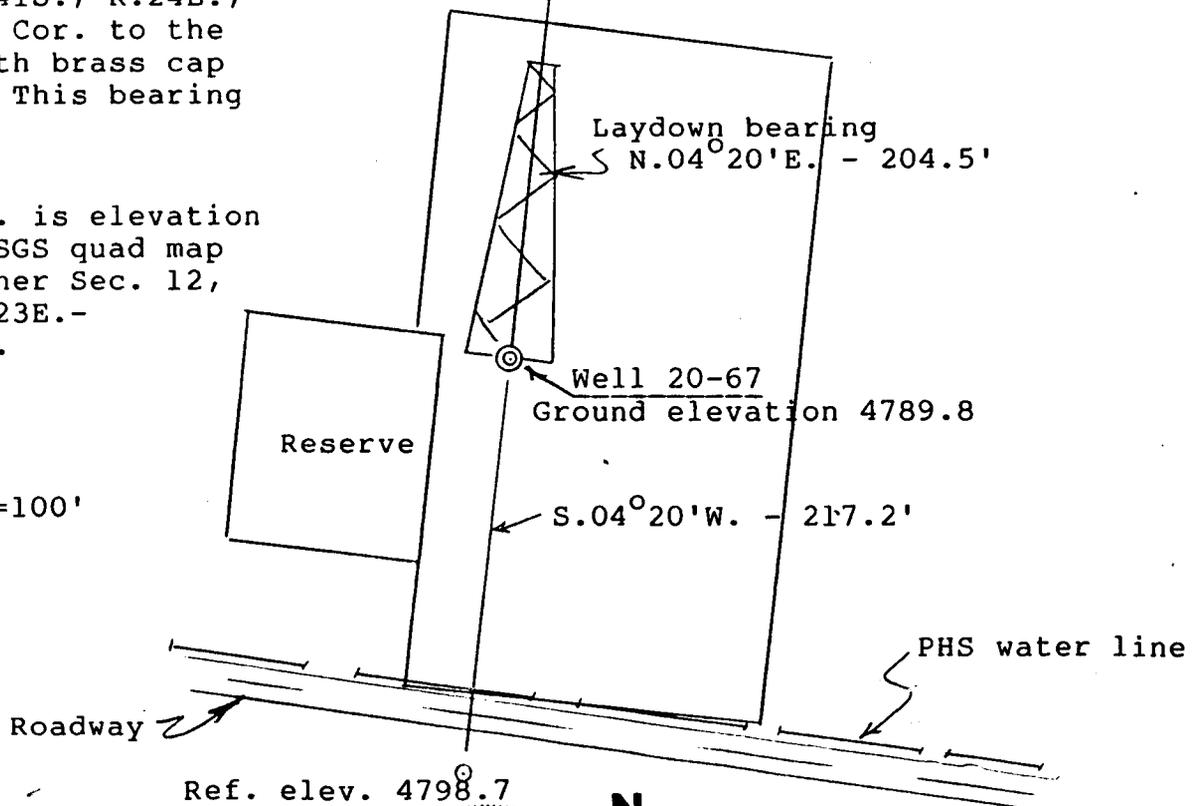
Scale:  
1" = 1000'

Bearing is based on the bearing of the west line of Sec. 19, T.41S., R.24E., from the NW Cor. to the SW Cor., both brass cap monuments. This bearing is South.

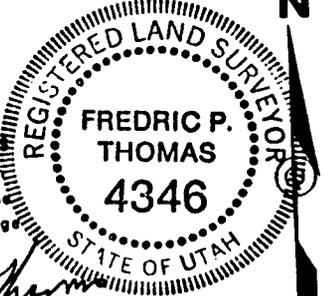
Ref. elev. 4789.7

Datum elev. is elevation shown on USGS quad map for SE Corner Sec. 12, T.41S., R.23E.- Elev. 4802.

Scale: 1"=100'



KNOW ALL MEN BY THESE PRESENTS:  
THAT I, FREDRIC P. THOMAS  
do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the same is true and correct to the best of my knowledge and belief.



**THOMAS** Engineering Inc.

215 N. Linden  
Cortez, Colorado  
565-4496

*Fredric P. Thomas*  
FREDRIC P. THOMAS  
Reg. L.S. and P.E.  
Colo. Reg. No. 6728

Bearing by  
Solar  
observation

Utah Reg. No. 4346

**Phillips Petroleum Company  
Rutherford Unit 20-67  
NW SW Section 20, T41S, R24E  
San Juan County, Utah**

Supplemental Information to Form 3160-3, Application for Permit to Drill, Deepen, or Plug Back.

**DRILLING PROGRAM**

**1. Estimated Tops of Geologic Markers (RKB):**

Ground level elevation is 4,790'. Estimated KB height is 13'.

Shinarump	2,371'	Ismay	5,403'
DeChelly	2,641	Gothic Shale	5,541
Hermosa	4,609	Desert Creek	5,553

**2. Top and Bottom Depths at which Water, Oil, Gas, Salt, Uranium, Coal, and Other Mineral Bearing Formations Are Expected:**

Water is expected in the Navajo, Wingate, and DeChelly formations. The lowest known usable water is expected at the base of the Wingate at 1,513'. Oil and associated gas are expected in the Ismay and Desert Creek formations. Salt may be encountered beneath the Desert Creek formation.

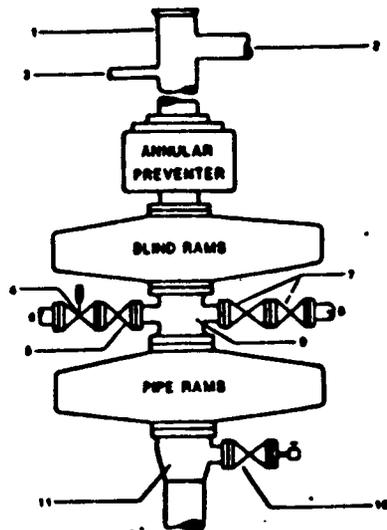
**3. Blowout Prevention Equipment:**

The BOP equipment will be 11" 3,000 psi WP. An accumulator system will be used with hydraulic controls located at the accumulator. Remote controls will be readily accessible to the driller.

BOP pressure tests up to 3,000 psi (2,100 psi for the annular) shall be conducted upon initial installation, whenever any seal is broken, after any repairs, and at thirty (30) day intervals. In addition, the BOP's will be function tested each trip out of the hole, and pressure tested weekly to 1,500 psi.

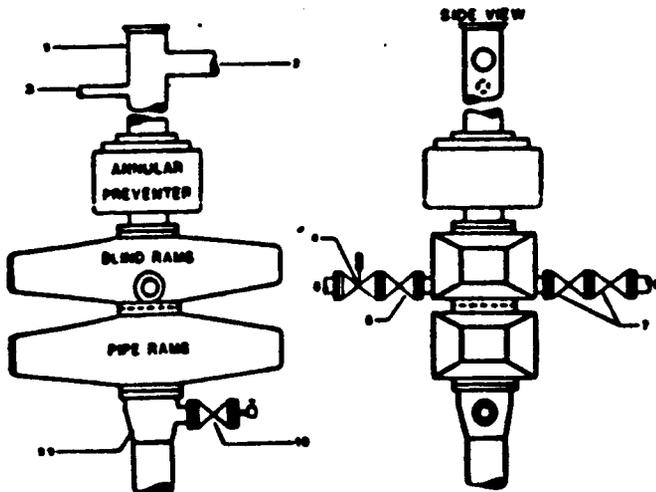
BOP tests will be conducted in accordance with Federal requirements and the Phillips Petroleum Company Well Control Manual. BOP drills will be conducted weekly for each drilling crew. All pressure tests and BOP drills will be witnessed by Phillips' representative and the contractor's senior supervisor and recorded in the driller's log which will remain on the rig floor at all times.

The wellhead equipment shall consist of an 11" 3,000 psi WP x 9-5/8" SOW bradenhead and an 11" 3,000 psi WP x 7-1/16" 3,000 psi WP tubing head.



1. BELL NIPPLE
2. FLOW LINE
3. FILL-UP LINE
4. 3" FE PRESSURE OPERATED CHOKE LINE VALVE
5. 3" FE GATE VALVE
6. 3" FE CHOKE LINE TO CHOKE MANFOLD
7. 2" FE GATE VALVES
8. 2" FE KILL LINE
9. DRILLING SPOOL
10. 2" SE OR FE GATE VALVE WITH NEEDLE VALVE
11. CASING HEAD HOUSING

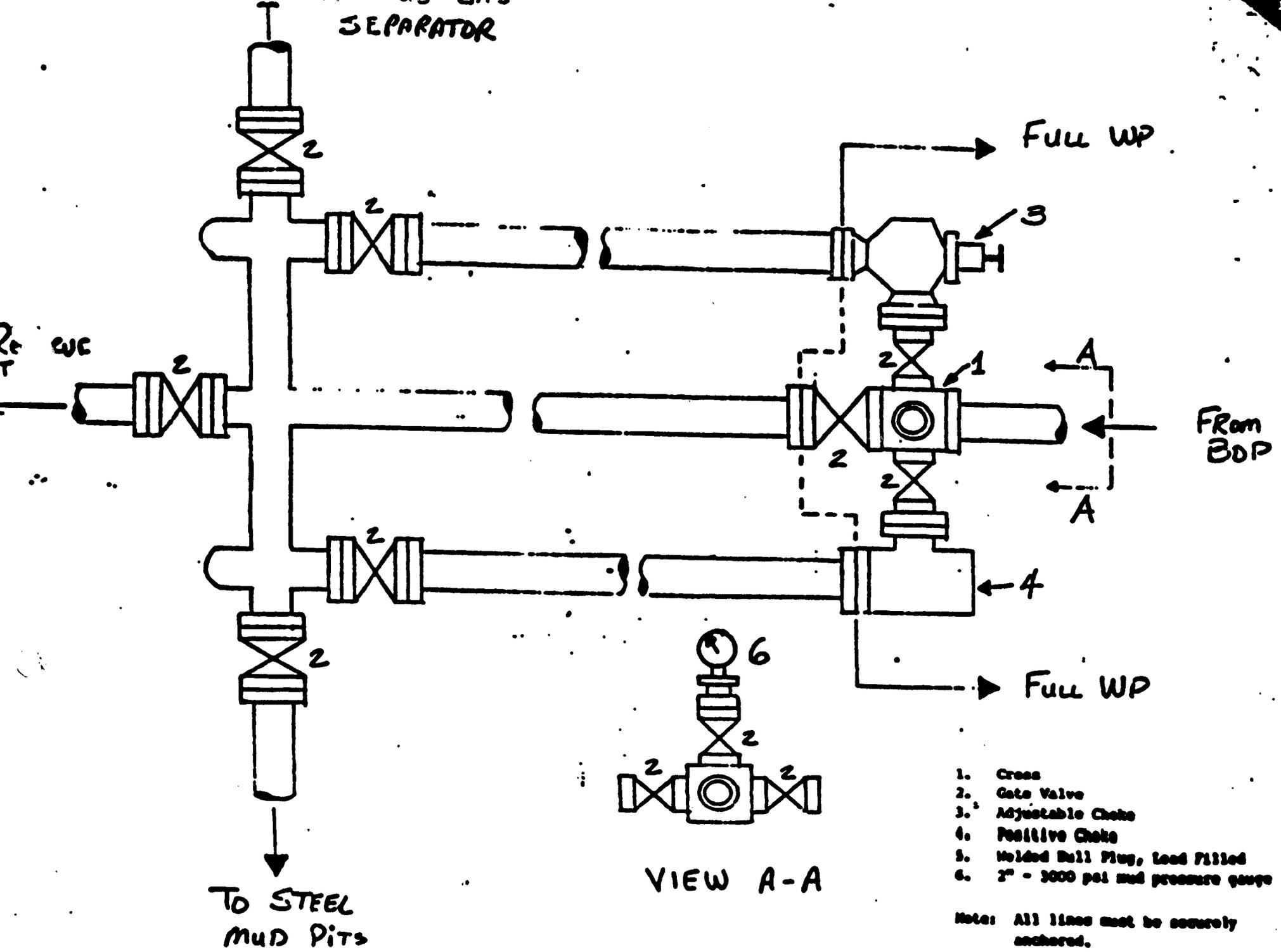
Figure 7-7. Standard Hydraulic Blowout Preventer Assembly (3 M Working Pressure) Alternative 1



1. BELL NIPPLE
2. FLOW LINE
3. FILL-UP LINE
4. 3" PRESSURE OPERATED CHOKE LINE VALVE
5. 3" GATE VALVE
6. 3" CHOKE LINE TO CHOKE MANFOLD
7. 2" GATE VALVES
8. 2" FE KILL LINE
10. 2" SE OR FE GATE VALVE WITH NEEDLE VALVE
11. CASING HEAD HOUSING

Figure 7-8. Standard Hydraulic Blowout Preventer Assembly (3 M Working Pressure) Alternative 2 (without Drilling Spool)





SEPARATOR

Full WP

WC

From BOP

Full WP

TO STEEL MUD PITS

VIEW A-A

- 1. Cross
- 2. Gate Valve
- 3. Adjustable Choke
- 4. Positive Choke
- 5. Welded Ball Plug, Lead Filled
- 6. 2" - 3000 psi mud pressure gauge

Note: All lines must be securely anchored.

**4.a. Casing and Cementing Programs:**

All usable water and productive oil and gas zones will be covered with casing and cement as detailed below:

**Conductor Pipe:**

Hole Size : 17-1/2" to 120 ft  
 Casing : 120', 13-3/8", 48 lb/ft, H-40, ST&C  
 Cement : Cement casing to surface with 180 sx Class 'G' cement.

**Surface Casing:**

Hole Size : 12-1/4" to 1,670 ft  
 Casing : 1,670', 9-5/8", 36 lb/ft, J-55, ST&C  
 Cement : Cement casing to surface with 320 sx Light cement followed by 275 sx Class 'G' cement. Possible top job with 100 sx Class 'G' cement.  
 Casing Test : Will test to 1,500 psi prior to drilling out.

**Production Casing:**

Hole Size : 8-3/4" to 5,750 ft TD  
 Casing : Surface to 3,300', 7", 20 lb/ft, J-55, ST&C  
           3,300' to 4,900', 7", 23 lb/ft, J-55, ST&C  
           4,900' to 5,750', 7", 26 lb/ft, J-55, ST&C  
 Cement : Cement casing to desired TOC of 1,570' for the lead slurry and of 4,900' for the tail. The lead and tail slurries will be Light and Class 'G' cements respectively. Final cement volume will be based on caliper log hole volume plus 20% excess.  
 Casing Test : Will test to 2,500 psi.

**4.b. Auxiliary Equipment to be Used:**

Kelly Cocks : Upper and lower with handle available.  
 Bit Floats : None.  
 Mud Monitoring Equipment : Pit level indicator and flowline sensor.  
 Drill String Safety Valve: Will have available on the drill floor at all times to fit any section of tubing or drill string being used.

5. Drilling Fluids:

Adequate inventories of mud materials will be stored on location to build a mud volume equal to the active system on the rig in order to assure well control. The drilling fluid program is as follows:

0-1,670':

Type : Fresh water and gel  
 Mud Weight : 8.4 to 8.6 ppg  
 Fluid Loss : No Control

1,670'-2,600':

Type : Fresh water, low solids, non-dispersed polymer  
 Mud Weight : 8.6 to 9.0 ppg  
 Viscosity : 32 to 38 sec/qt  
 Fluid Loss : Below 15 cc/30 min  
 pH : 10.0 to 10.5 using caustic soda

2,600'-5,750':

Type : Fresh water, low solids, non-dispersed polymer  
 Mud Weight : 9.0 to 9.6 ppg  
 Viscosity : 40 to 45 sec/qt  
 Fluid Loss : Below 10 cc/30 min  
 pH : 10.0 to 10.5 using caustic soda

6. Testing, Logging, and Coring Program:

## Logging Program:

1. GR, SP, DIL, BHC Sonic, CAL from TD to surface casing.
2. GR, CNL/LDT, PE, CAL from TD to 3,750'.

Sample Program : 30' samples from surface casing to 5,300'.  
 10' samples from 5,300' to TD.

Testing Program : Record pressures from pay zones with RFT.

Mud Logging : Mud log from 5,300' to TD.

7. Down Hole Conditions:

Maximum BHP expected is 2,000 psi  
 H<sub>2</sub>S is anticipated in the Desert Creek formation. An H<sub>2</sub>S contingency plan will be utilized.  
 Abnormal pressures and temperatures are not anticipated.

8. Other Facets:

Anticipated spud date is January 2, 1990.  
 Drilling time to TD will be approximately 15 days depending upon unforeseen problems and/or weather conditions.

## CULTURAL RESOURCE REPORT

The Navajo Historic Preservation Office is currently preparing a cultural resource inventory of the subject wellsite. A copy of the report will be sent to the BIA in Shiprock.

## SURFACE USE PROGRAM

### 1. Existing Roads

- a. Access to existing lease roads is approximately 5 miles south of Montezuma Creek, Utah.
- b. The existing roads will be maintained in it's present condition or upgraded as needed during drilling operations.
- c. Refer to the attached access road map for road information.

### 2. Access Roads to be Constructed or Reconstructed

No new access roads will be constructed for this site.

### 3. Location of Existing Wells

Locations of existing wells are shown on the attached maps.

### 4. Production Facilities

Production from the proposed well will be piped to the Rutherford Unit Satellite #20 located in the NE NE Sec. 20-T41S-R24E, San Juan County, Utah. The liquids will then be piped to Tank Battery #1, located in the SW SW Sec. 16-T41S-R24E.

### 5. Water Supply

- a. The source of water to drill the subject well will be from the River Booster, NE/4 Sec. 5., or from the Water Injection Plant, SE/4 Sec. 17 in T41S-R24E, San Juan County, Utah.
- b. The drilling water will be trucked from the water source to the subject well.
- c. A water supply well will not be drilled on the lease.

6. Construction Materials

- a. Only native soils will be used for construction of wellsite and the access road.
- b. Pit run rock will be used on the wellsite and access road when needed.
- c. The above materials are owned by the Navajo Tribe.

7. Waste Disposal

- a. Cuttings: Cuttings will be contained in a fenced reserve pit until dry enough to cover. Upon abandonment, the reserve pit area will be backfilled, shaped to natural topography, and seeded.
- b. Drilling Fluid: Drilling fluid will be contained in a fenced reserve pit until dry enough to cover. Upon abandonment, the reserve pit area will be backfilled, shaped to natural topography, and seeded.
- c. Garbage/Trash: All garbage and trash will be put in the burn pit. The burn pit will be fenced on four sides. After the burn pit is no longer in use, the trash and garbage will be covered with a minimum of 4 feet of fill.
- d. Salt: No salts are anticipated on this well. If salt is present, it will be disposed of in the reserve pit.
- e. Chemicals: Chemicals used in the well will be disposed of in the reserve pit.
- f. Sewage and graywater: Sewage and graywater from the drillers and Phillips staff trailers will be held in a self contained system. Portable chemical toilets will also be available on location.
- g. Produced fluids: Produced fluids from the well will be placed in tanks on location or piped to Tank Battery #1.

8. Ancillary Facilities:

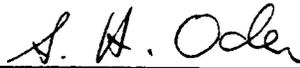
- a. There will be no drilling camp on location. Several mobile housing units will be on location for various personnel. A self contained sewage and graywater system will be provided for these facilities.
- b. No airstrip will be needed.

9. Well Site Layout
  - a. Refer to the attached rig layout plan.
  - b. Lining of the reserve pit is not anticipated. If porous soils are encountered the pit will be lined.
10. Surface Reclamation Plan:
  - a. Construction Program:
    1. Six to eight inches of surface material will be stripped and stockpiled prior to construction. This soil will not be used for any purpose except final rehabilitation of the disturbed area.
    2. See the cross sectional diagram of the location for construction specifics.
    3. All temporary disturbances will be restored to their original contour.
    4. Trees, if any, will be stockpiled separately of topsoil.
  - b. Well Abandonment: The disturbed areas will be recontoured to the original topography. No unnatural depressions will be left that may collect water. The stockpiled topsoil will be distributed evenly over the area. The area will be reclaimed and seeded in accordance with BLM specifications.
  - c. Producing Well: Those areas not needed for production purposes will be recontoured to the surrounding topography. Topsoil will be evenly distributed over areas not needed for production. These areas will be seeded per BLM specifications.
  - d. Pipelines and flowlines needed for producing this well will be above ground.
  - e. Rehabilitation will begin the fall following the completion of drilling activities depending on weather conditions and the pit evaporation rate.
11. Surface Ownership: The wellsite location, access road and leadline are on the Navajo Indian Reservation.
12. Other Information: Anticipated drilling time is 15 days, dependent on unknown problems and weather.

13. Operator's Representative and Certification:

S. H. Oden  
District Superintendent  
Phillips Petroleum Company  
152 N. Durbin, 2nd floor  
Casper, Wyoming 82601  
(307) 237-3791

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 Phillips Petroleum Company 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 provisions of 18 U.S.C. 1001 for the filing of false statement.

  
\_\_\_\_\_  
S. H. Oden  
District Superintendent

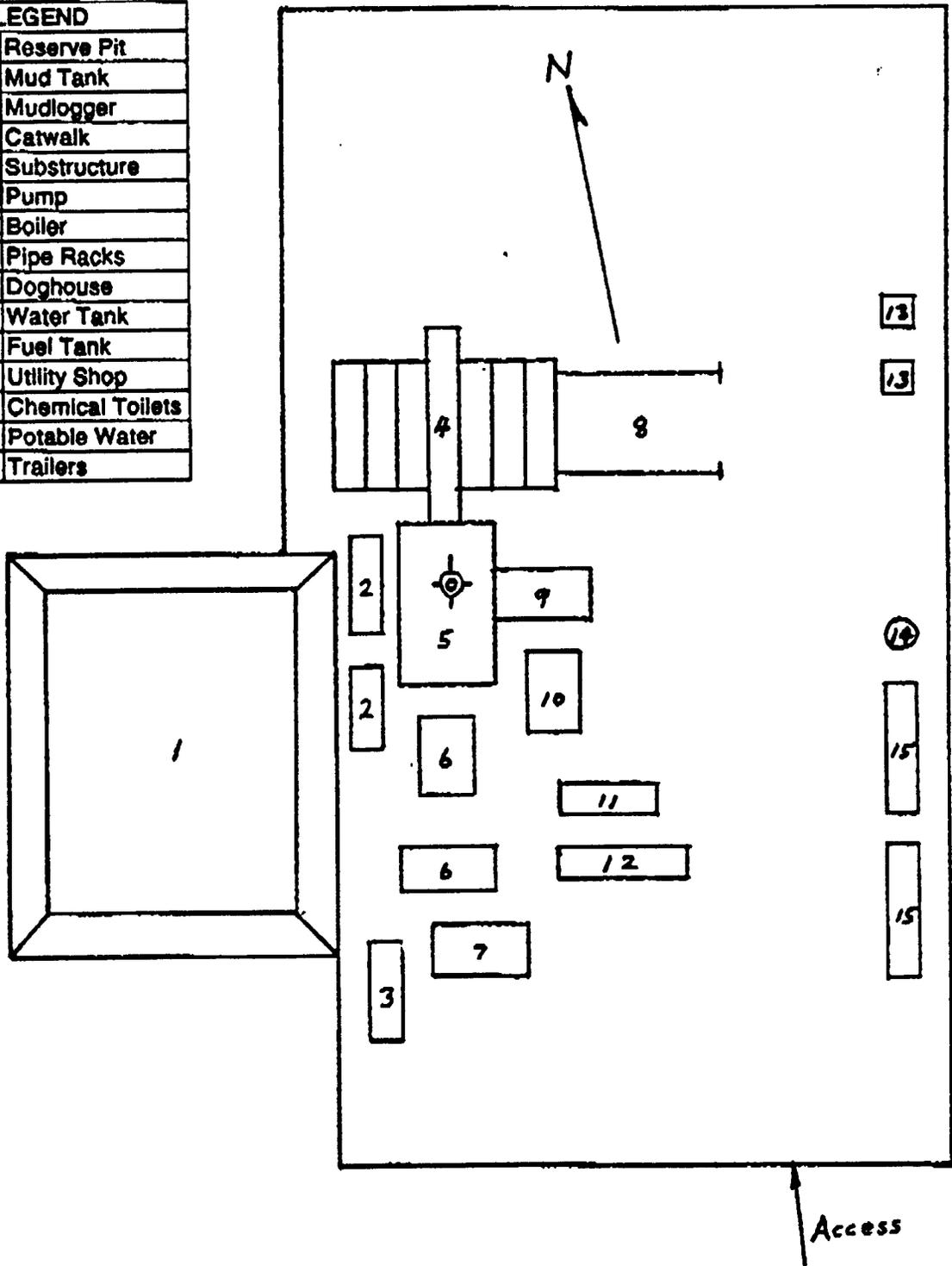
11/30/90  
\_\_\_\_\_  
Date

LEH/crr/fb  
11-15-90

# Ratherford Unit 20-67 San Juan County, Utah Location Layout

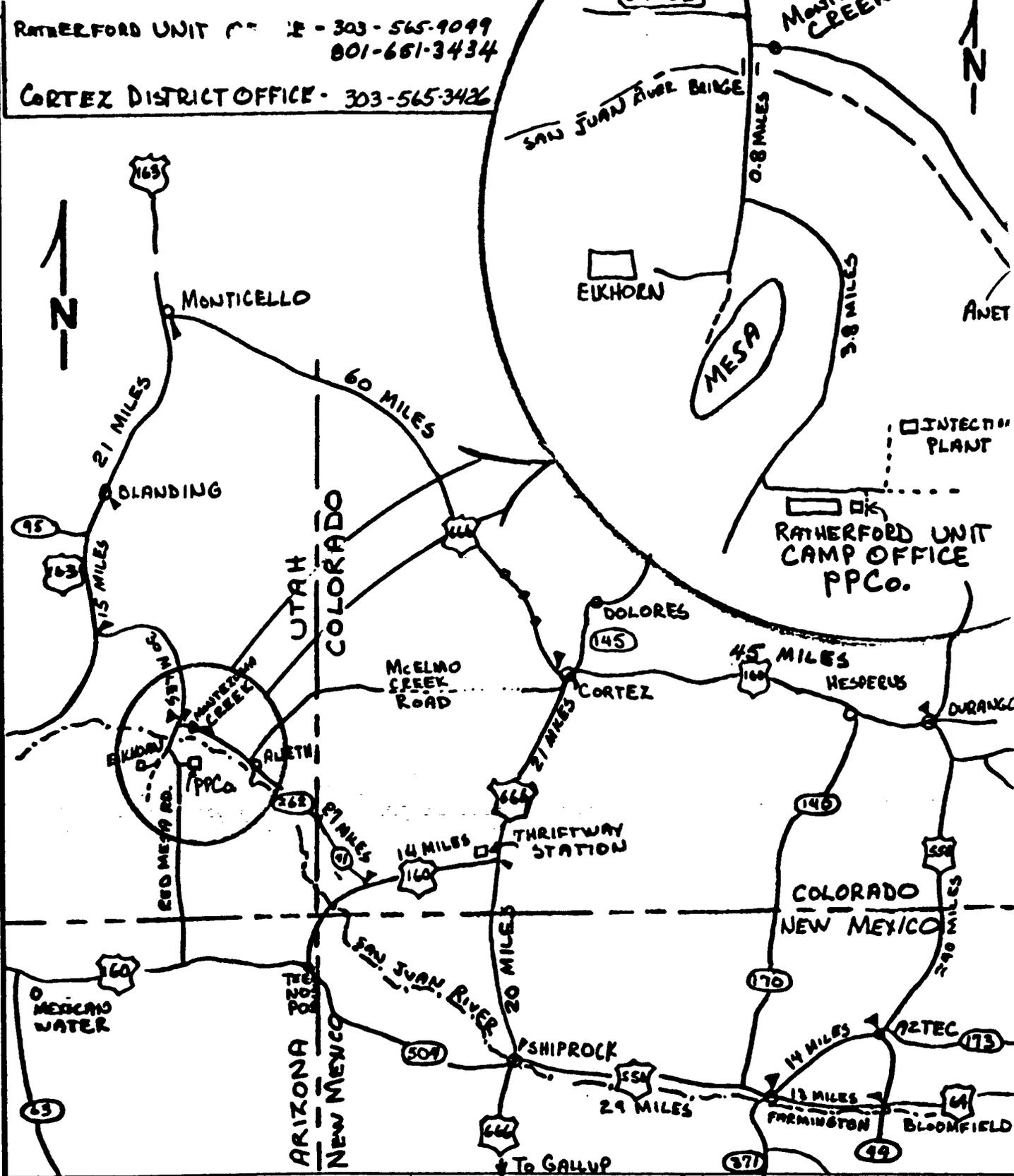
(Overall Size: 285' x 350')

LEGEND	
1	Reserve Pit
2	Mud Tank
3	Mudlogger
4	Catwalk
5	Substructure
6	Pump
7	Boiler
8	Pipe Racks
9	Doghouse
10	Water Tank
11	Fuel Tank
12	Utility Shop
13	Chemical Toilets
14	Potable Water
15	Trailers

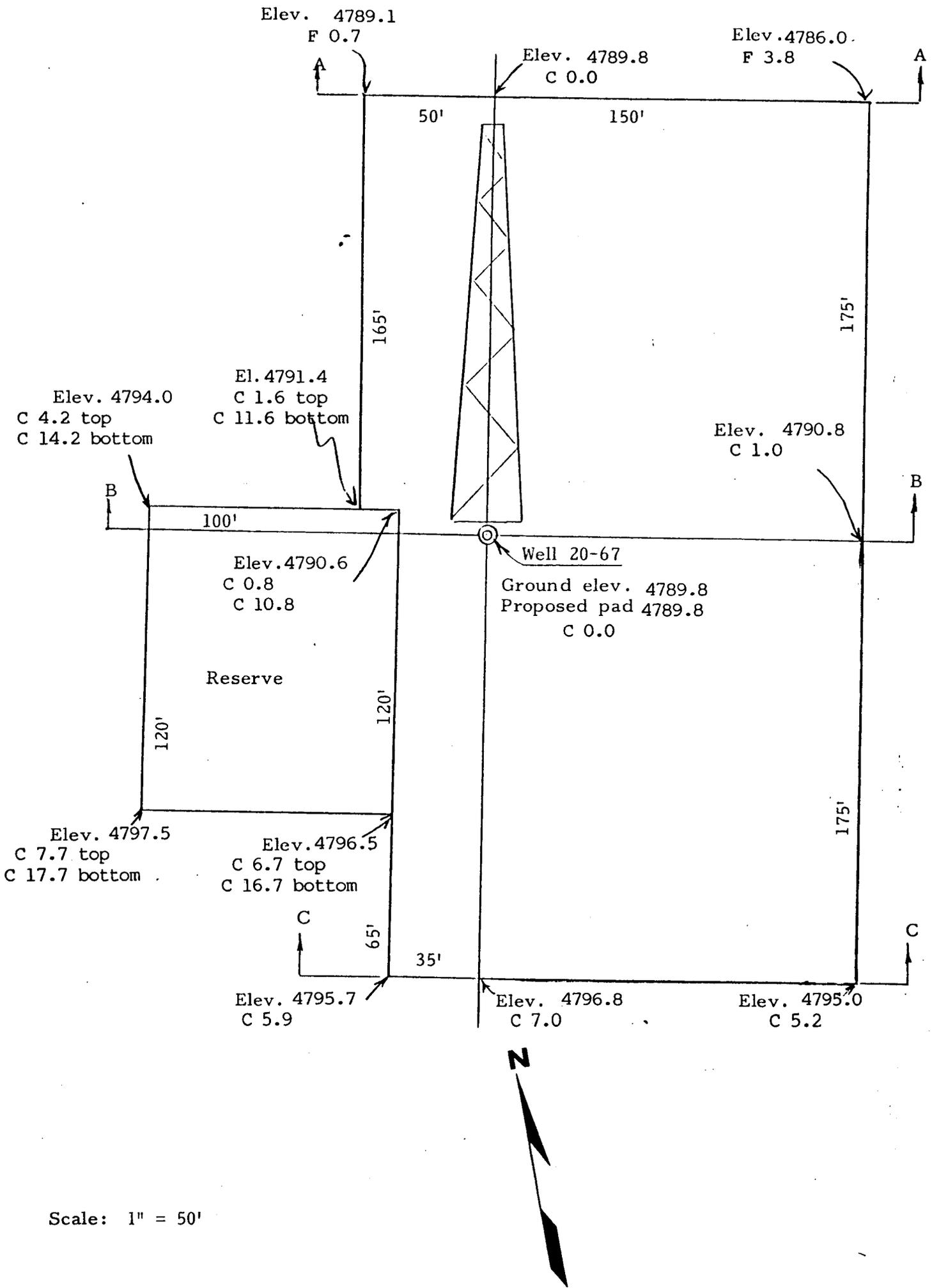


RATHERFORD UNIT # 12 - 303-565-9099  
801-661-3434

CORTEZ DISTRICT OFFICE - 303-565-3426



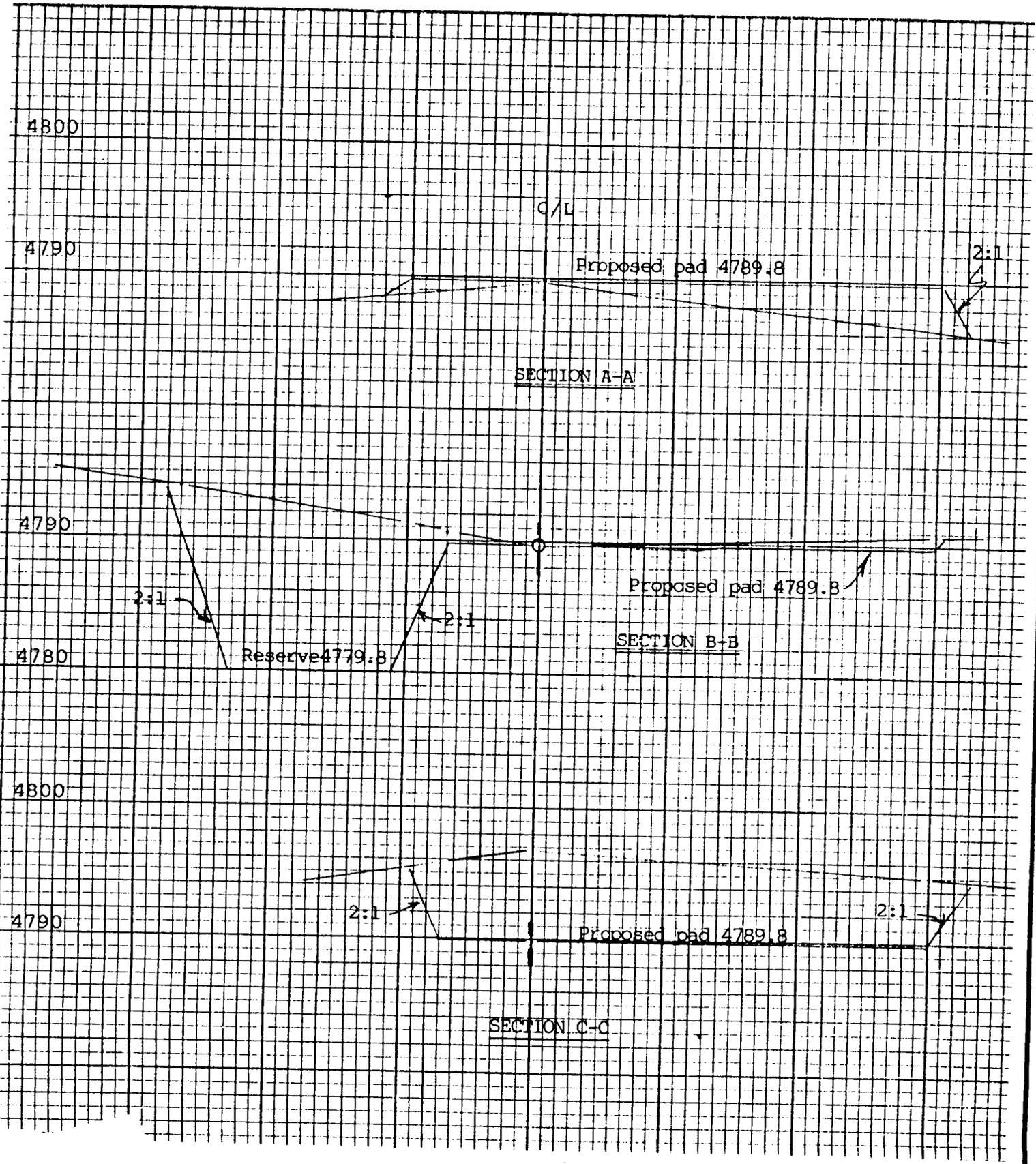
NO.	REVISION	BY	DATE	CHKD	APPD		
FOR BIDS	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p><b>PHILLIPS PETROLEUM COMPANY</b> BARTLESVILLE, OKLAHOMA</p> </div> <div style="text-align: center;"> </div> </div> <p style="text-align: center; font-size: 24px; font-weight: bold;">ROAD MAP</p> <p style="text-align: center; font-size: 18px; font-weight: bold;">RATHERFORD UNIT</p>				JA NO.	FILE CODE	
FOR APPR					AFE NO.	SCALE	NOTE
FOR CONST					DWG NO.	SH NO.	
DRAWN 2/2/90							
CHECKED							
APPD							



Scale: 1" = 50'

**THOMAS** Engineering Inc.

215 N. Linden  
Cortez, Colorado  
565-4496

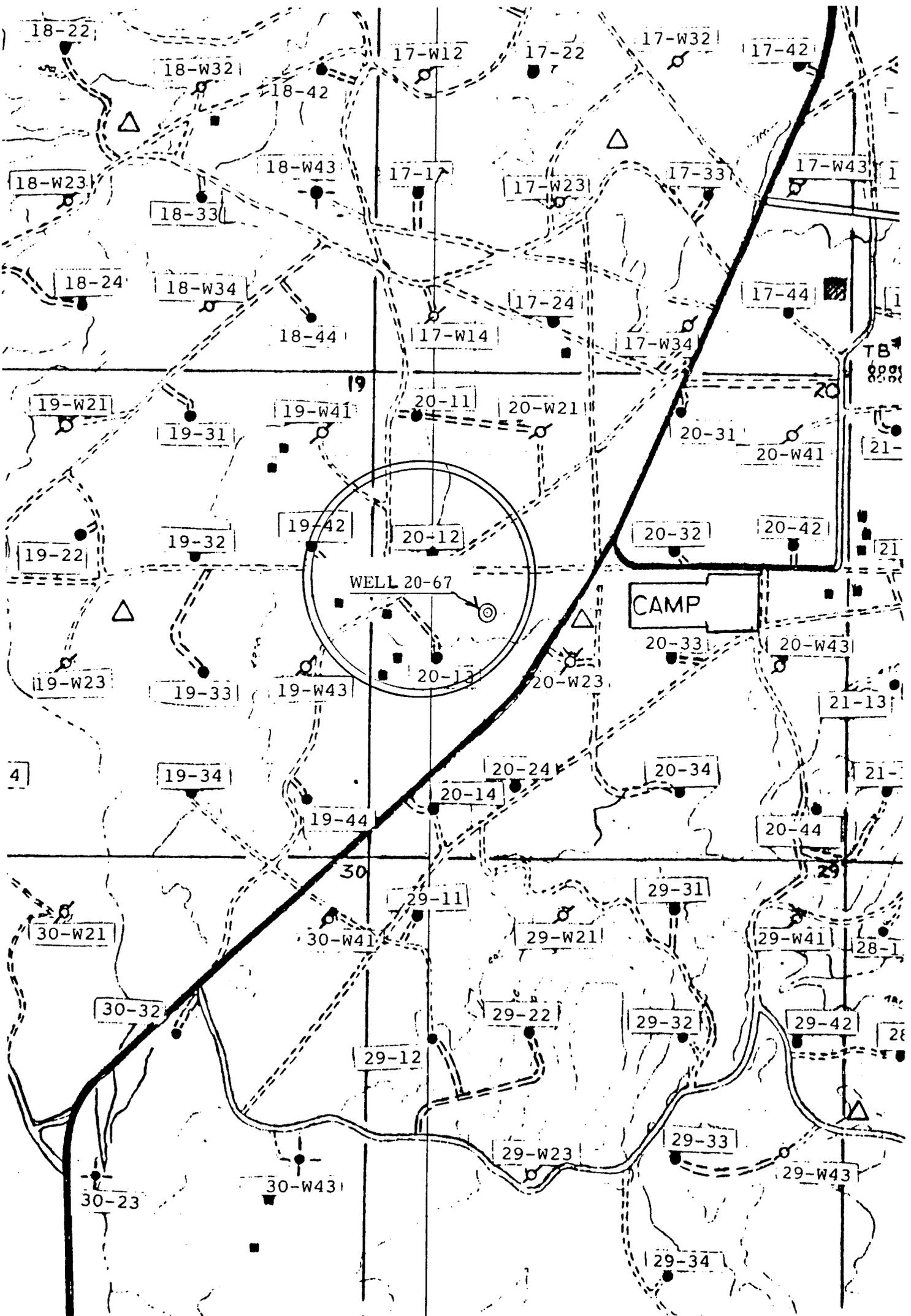


Horizontal scale: 1" = 50'  
Vertical scale: 1" = 10'

**THOMAS** Engineering Inc.

215 N. Linden  
Cortez, Colorado  
565-4496

LOCATION MAP



OPERATOR Phillips Petroleum Co N-0770 DATE 11-09-90

WELL NAME Rathford 00-67

SEC NESW 00 T 41S R 04E COUNTY San Juan

43-037-31590  
API NUMBER

Indian (2)  
TYPE OF LEASE

CHECK OFF:

PLAT.

BOND

NEAREST WELL

LEASE

FIELD SLBM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

1990 P.O.O. applied 7-08-90  
Water Permit 09-ava (+ 90-09-01)

APPROVAL LETTER:

SPACING:

R615-2-3

Rathford  
UNIT

R615-3-2

N/A  
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

CC: BTA

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

20-68  
20-67  
20-66  
24-32

13-14

Route original/copy to:

Well File

Radford Unit

Suspense

Other

(Location) Sec \_\_\_ Twp \_\_\_ Rng \_\_\_  
(API No.) \_\_\_\_\_

(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_

1. Date of Phone Call: 12-3-90 Time: 11:40

2. DOGM Employee (name) F.R. MATTHEWS (Initiated Call   
Talked to:

Name Ed Haseley (Initiated Call  - Phone No. ( )

of (Company/Organization) Phillips Pet. Co

3. Topic of Conversation: H2S Requirements on drilling permit. Contingency plan -

4. Highlights of Conversation: H2S plan being written by drilling dept will forward a copy to us as soon as it is completed.  
JAM.

H2S has not shown up in the past, but they are seeing some now on some wells.



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

December 3, 1990

Phillips Petroleum Company  
152 N. Durbin, 2nd Floor  
Casper, Wyoming 82601

Gentlemen:

Re: Ratherford 20-67 - NE SW Sec. 20, T. 41S, R. 24E - San Juan County, Utah  
2629' FSL, 1412' FWL

Approval to drill the referenced well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule R615-2-3, Oil and Gas Conservation General Rules.

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

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2  
Phillips Petroleum Company  
Ratherford 20-67  
December 3, 1990

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31590.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

tas  
Enclosures  
cc: Bureau of Land Management  
Bureau of Indian Affairs  
J. L. Thompson  
we14/1-14

DIVISION OF OIL, GAS AND MINING

WATER PERMIT OK

API NO. 43-037-31590 *del*

SPODDING INFORMATION

NAME OF COMPANY: PHILLIPS PETROLEUM

WELL NAME: RATHERFORD 20-67

SECTION NESW 20 TOWNSHIP 41S RANGE 24E COUNTY SAN JUAN

DRILLING CONTRACTOR AZTEC

RIG # 124

SPODDED: DATE 4-2-91

TIME 8:45 a.m.

HOW ROTARY

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY ROMAN C. PIERNICK

TELEPHONE # 801-651-3446

DATE 4-4-91

SIGNED

TAS

dl

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Phillips Petro. COMPANY MAN: Rocky Piernick  
WELL NAME: R.V. 20-67 API #: 43-037-31590  
QTR/QTR: NE SW SECTION: 20 TWP: 41S RANGE: 24E  
CONTRACTOR: Azteco 124 PUSHER/DRLR: \_\_\_\_\_  
INSPECTOR: Henry DATE: 4/2/91 OPERATIONS: Drilling Surface  
SPUD DATE: 4/2/91 TOTAL DEPTH: 395'

DRILLING AND COMPLETIONS

APD       WELL SIGN       BOPE       RESERVE PIT  
 FLARE PIT       BURN PIT       H2S       BLOOIE LINE  
 SANITATION       HOUSEKEEPING      \_\_\_\_\_ VENTED/FLARED

PLUGGING AND ABANDONMENT

PRODUCING FM(S): \_\_\_\_\_

PLUGS:

TYPE/SIZE

INTERVAL

PLUGS:	TYPE/SIZE	INTERVAL
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

PERFORATIONS: \_\_\_\_\_

CASING SIZE: \_\_\_\_\_ PULLED: YES / NO CUT AT: \_\_\_\_\_

PLUGS TESTED: \_\_\_\_\_ HOW: \_\_\_\_\_ WOC: \_\_\_\_\_

MARKER: \_\_\_\_\_ SURFACE: \_\_\_\_\_ PLATE: \_\_\_\_\_

RECLAMATION:

CONTOURED: \_\_\_\_\_ RIPPED: \_\_\_\_\_ REHAB'D: \_\_\_\_\_

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPLICABLE

REMARKS: Drilling Surface  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

OPERATOR PHILLIPS PETROLEUM COMPANY

OPERATOR ACCT. NO. N 0772

ADDRESS P. O. BOX 1967

HOUSTON, TX 77251-1967

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				SPUD DATE	EFFECTIVE DATE	
					QQ	SC	TP	RG			COUNTY
B	06280		43-037-31589	RATHERFORD UNIT #13-14	SW SW	13	41S	<sup>23</sup> 24E	San Juan	1/17/91	1/17/91
WELL 1 COMMENTS: New Drilling Well <i>( Entity assignments made 4-26-91. JFM )</i>											
B	06280		43-037-31593	RATHERFORD UNIT #24-32	SW NE	24	41S	23E	San Juan	2/28/91	2/28/91
WELL 2 COMMENTS: New Drilling Well											
B	06280		43-037-31592	RATHERFORD UNIT #20-66	SW NW	20	41S	24E	San Juan	3/17/91	3/17/91
WELL 3 COMMENTS: New Drilling Well											
B	06280		43-037-31590	RATHERFORD UNIT #20-67	NE SW	20	41S	24E	San Juan	4/2/91	4/2/91
WELL 4 COMMENTS: New Drilling Well											
B	06280		43-037-31591	RATHERFORD UNIT #20-68	NW SW	20	41S	24E	San Juan	4/20/91	4/20/91
WELL 5 COMMENTS: New Drilling Well											

ACTION CODES (See instructions on back of form)

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

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

(3/89)

**RECEIVED**

APR 24 1991

DIVISION OF  
OIL GAS & MINING

*Jane Mitchell* J. F. Mitchell  
Signature

Regulatory/Compliance Dir. 4/22/91  
Title Date

Phone No. (713) 669-3509

**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 \***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_  
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP EN  PLUG BACK  DIFF. REVR  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Phillips Petroleum Company

3. ADDRESS OF OPERATOR  
5525 Hwy 64 NBU 3004, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
 At surface 1412' FWL & 2629' FSL (NE/SW)  
 At top prod. interval reported below Same as above  
 At total depth Same as above

**RECEIVED**  
JUN 03 1991  
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. UNIT AGREEMENT NAME  
SW-I-4192  
 8. FARM OR LEASE NAME  
Ratherford  
 9. WELL NO.  
20-67  
 10. FIELD AND POOL, OR WILDCAT  
Greater Aneth  
 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 20-T41S-R24E  
 12. COUNTY OR PARISH  
San Juan  
 13. STATE  
Utah

14. PERMIT NO. 043-037-31590 DATE ISSUED \_\_\_\_\_

15. DATE SPUNDED 5-3-91 16. DATE T.D. REACHED 4-24-91 17. DATE COMPL. (Ready to prod.) 5-6-91 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4790' GL 19. ELEV. CASINGHEAD \_\_\_\_\_

20. TOTAL DEPTH, MD & TVD 5739' 21. PLUG, BACK T.D., MD & TVD 5739' 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)\*  
5566' - 5618' Desert Creek 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN GR/CCL CBL/VDL REPEAT FORMATION TESTER 4-24-91 DUAL INDUCTION - SFL COMP NEUTRAL / METHO DENSITY 27. WAS WELL CORRED 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"	61#, K-55	131'	17-1/2"	150 Sx C1 B	
9-5/8"	36#, J-55	1693'	12-1/4"	685 Sx C1 B	
7"	20, 23, 26#	5795'	8-3/4"	825 Sx 35/65 Poz, 235 Sx	C1 G

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
--	--	--	--	--	2-7/8"	5795'	

31. PERFORATION RECORD (Interval, size and number)

5566' - 5595' 2 SPF, 4" HSC, 29 Shots  
 5609' - 5618' 2 SPF, 4" HSC, 9 Shots

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5566'-5618'	Pmpd 1000 Gals 28% HCL and 6800 Gals 15% HCL in perms

33. PRODUCTION

DATE FIRST PRODUCTION 5-3-91 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping with Beam Pump 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
5-8-91	24		→	40	6	7	150

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
24	26	→				

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS  
None

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

SIGNED L. E. Robinson TITLE Sr. Drlg. & Prod. Engr. DATE 5-20-91

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



**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. SERV.  Other  **JUL 15 1991**

**3. NAME OF OPERATOR:** Phillips Petroleum Company

**4. ADDRESS OF OPERATOR:** 5525 Hwy 64 NBU 3004, Farmington, NM 87401

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

**6. IF INDIAN ALLOTTEE OR TRIBE NAME:** Navajo Tribe

**7. UNIT AGREEMENT NAME:** SW-I-4192 N.H.M.

**8. FARM OR LEASE NAME:** Ratherford

**9. WELL NO.:** 20-67

**10. FIELD AND POOL, OR WILDCAT:** Greater Aneth

**11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA:** Sec. 20-T41S-R24E

**12. COUNTY OR PARISH:** San Juan

**13. STATE:** Utah

**14. PERMIT NO.:** 043-037-31590

**15. DATE SPOILED:** 5-3-91

**16. DATE T.D. REACHED:** 4-24-91

**17. DATE COMPL. (Ready to prod.):** 5-6-91

**18. ELEVATIONS (DF, RKB, ST, GR, ETC.):** 4790' GL

**19. ELEV. CASINGHEAD:**

**20. TOTAL DEPTH, MD & TVD:** 5739'

**21. PLUG, BACK T.D., MD & TVD:** 5739'

**22. IF MULTIPLE COMPL., HOW MANY?:**

**23. INTERVALS DRILLED BY:** →

**24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*:** 5566' - 5618' Desert Creek

**25. WAS DIRECTIONAL SURVEY MADE:** NO

**26. TYPE ELECTRIC AND OTHER LOGS RUN:** GR/CCL CBL/VDL

**27. WAS WELL CORRED:** NO

*COMPENSATED NEUTRON - LITHO-DENSITY, REPEAT FORMATION TESTER*

*DUAL INDUCTION SFL & LINEAR CORRELATION 4-24-91*

**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"	61#, K-55	131'	17-1/2"	150 Sx C1 B	
9-5/8"	36#, J-55	1693'	12-1/4"	685 Sx C1 B	
7"	20, 23, 26#	5795'	8-3/4"	825 Sx 35/65 Poz, 235 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"	5795'	

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

5566' - 5595' 2 SPF, 4" HSC, 29 Shots

5609' - 5618' 2 SPF, 4" HSC, 9 Shots

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5566'-5618'	Pmpd 1000 Gals 28% HCL and 6800 Gals 15% HCL in perms

**33. PRODUCTION**

**DATE FIRST PRODUCTION:** 5-3-91

**PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump):** Pumping with Beam Pump

**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
5-8-91	24		→	40	6	7	150

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
24	26	→				

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

**35. LIST OF ATTACHMENTS:** None

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

SIGNED *L. E. Robinson* TITLE Sr. Drlg. & Prod. Engr

DATE 5-20-91

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

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
Distribution: 5 - BLM, Farmington 2 - Utah, Div. of O&G&M 1 - The Navajo Nation 1 - R. C. Arnim (r) G. R. Young 1 - D. C. Gill 1 - V. S. Shaw 1 - F. D. Caudle 1 - T. V. Rankin 1 - W. H. Smith 1 - N. Anstine 1 - P. J. Konkel 1 - Texaco 1 - Chieftain 1 - Mobil Oil 1 - PPCo, Houston 1 - PPCo, Farmington				Shinarump	2371'	
				DeChelly	2641'	
				Hermosa	4609'	
				Ismay	5403'	
				Gothic	5541'	
		1 - Gale Yarrow		Desert Creek	5553'	

**CORRECTED COPY**

**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 \***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP EN  PLUG BACK  DIFF. REMV.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Phillips Petroleum Company

3. ADDRESS OF OPERATOR  
5525 Hwy 64 NBU 3004, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface 1412' FWL & 2629' FSL (NE/SW)  
At top prod. interval reported below Same as above  
At total depth Same as above

**RECEIVED**  
SEP 12 1991  
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. UNIT AGREEMENT NAME  
SW-I-4192

8. FARM OR LEASE NAME  
Ratherford

9. WELL NO.  
20-67

10. FIELD AND POOL, OR WILDCAT  
Greater Aneth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 20-T41S-R24E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

14. PERMIT NO. 043-037-31590 DATE ISSUED 5-3-91

15. DATE SPUNDED 4-2-91 16. DATE T.D. REACHED 4-24-91 17. DATE COMPL. (Ready to prod.) 5-3-91 18. ELEVATIONS (DP, RKB, RT, OR, ETC.)\* 4790' GL 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5790' 21. PLUG, BACK T.D., MD & TVD 5739' 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)\* 5566' - 5618' Desert Creek 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN GR/CCL CBL/VDL DUAL INDUCTION - SFL REPEAT FORMATION TESTER COMPENSATED NEUTRON LITHO DENSITY, MUD LOG 27. WAS WELL CORED NO

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	61#, K-55	131'	17-1/2"	150 Sx C1 B	
9-5/8"	36#, J-55	1693'	12-1/4"	685 Sx C1 B	
7"	20, 23, 26#	5795'	8-3/4"	825 Sx 35/65 Poz, 235 Sx	C1 G

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
--	--	--	--	--	2-7/8"	5654'	

31. PERFORATION RECORD (Interval, size and number)

5566' - 5595' 2 SPF, 4" HSC, 29 Shots  
5609' - 5618' 2 SPF, 4" HSC, 9 Shots

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5566' - 5618'	Pmpd 1000 Gals 28% HCL and 6800 Gals 15% HCL in perms

33. PRODUCTION

DATE FIRST PRODUCTION 5-3-91 PRODUCTION METHOD Pumping with Beam Pump WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5-8-91	24		→	40	6	7	150

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
24	26	→				

34. DISPOSITION OF GAS (Bold, used for fuel, vented, etc.) Sold TEST WITNESSED BY

35. LIST OF ATTACHMENTS  
None

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

SIGNED L. E. Robinson TITLE Sr. Drlg. & Prod. Engr. DATE 9-9-91

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Distribution: 5 - BLM, Farmington 2 - Utah, Div. of OG&M 1 - The Navajo Nation 1 - R. C. Arnim (r) G. R. Young 1 - D. C. Gill 1 - V. S. Shaw 1 - F. D. Caudle 1 - T. V. Rankin 1 - W. H. Smith 1 - N. Anstine 1 - P. J. Konke 1 - Texaco 1 - Chieftain 1 - Mobil Oil 1 - Gale Yarrow 1 - PPCo, Houston 1 - PPCo, Farmington				Shinarump DeChelly Hermosa Ismay Gothic Desert Creek	2371' 2641' 4609' 5403' 5541' 5553'	

38. GEOLOGIC MARKERS



**PHILLIPS PETROLEUM COMPANY**

HOUSTON, TEXAS 77251-1967  
BOX 1967

EXPLORATION AND PRODUCTION GROUP

BELLAIRE, TEXAS  
6330 WEST LOOP SOUTH  
PHILLIPS BUILDING

September 18, 1991

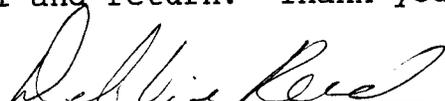
Utah Division of Oil, Gas & Mining  
Attn: Vicki Carney  
355 W. North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Re: Phillips, Ratherford #20-67 43-037-31590  
Sec. 20-T41S-R24E POW  
San Juan County, Utah

Please find enclosed the following logs:

- 1 Compensated Neutron-Litho-Density ✓
- 1 Dual Induction - SFL w/Linear Correlation ✓
- 1 Repeat Formation Tester ✓
- 1 Mudlog ✓

Please sign one copy of this transmittal and return. Thank you.

  
Debbie Reed  
Geological Clerk

Received By: VLC

Date: 9-25-91

RECEIVED

SEP 24 1991

DIVISION OF  
OIL GAS & MINING

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

P J KONKEL  
PHILLIPS PETROLEUM COMPANY  
5525 HWY 64 NBU 3004  
FARMINGTON NM 87401

UTAH ACCOUNT NUMBER: N0772

REPORT PERIOD (MONTH/YEAR): 8 / 93

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 UNIT #17-42								
4303731177	06280	41S 24E 17	DSCR					
RATHERFORD UNIT #17-31								
4303731178	06280	41S 24E 17	DSCR					
RATHERFORD UNIT #18-31								
4303731181	06280	41S 24E 18	DSCR					
RATHERFORD UNIT #18-42								
4303731182	06280	41S 24E 18	DSCR					
RATHERFORD UNIT #7-44								
4303731189	06280	41S 24E 7	DSCR					
RATHERFORD UNIT #12-12								
4303731190	06280	41S 23E 12	DSCR					
RATHERFORD UNIT #12-21								
4303731201	06280	41S 23E 12	DSCR					
RATHERFORD UNIT 12-43								
4303731202	06280	41S 23E 12	DSCR					
RATHERFORD UNIT #12-32								
4303731203	06280	41S 23E 12	DSCR					
RATHERFORD UNIT 18-22								
4303731236	06280	41S 24E 18	DSCR					
RATHERFORD 11-41								
4303731544	06280	41S 23E 11	DSCR					
RATHERFORD 13-14								
4303731589	06280	41S 23E 13	DSCR					
* RATHERFORD 20-67								
4303731590	06280	41S 24E 20	DSCR					
<b>TOTALS</b>								

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

# MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

ACCOUNT NUMBER: N0772

**RECEIVED**  
AUG 16 1993

P J KONKEL  
PHILLIPS PETROLEUM COMPANY  
5525 HWY 64 NBU 3004  
FARMINGTON NM 87401

REPORT PERIOD (MONTH/YEAR): 6 / 93

DIVISION OF OIL, GAS & MINING  
AMENDED REPORT  (Highlight Changes)

Well Name API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes		
						OIL(BBL)	GAS(MCF)	WATER(BBL)
#21-23 4303713754	06280	41S 24E 21	DSCR	POW	29	1374	883	58
#3-44 4303715031	06280	41S 24E 3	DSCR	POW	30	111	94	2905
#3-14 4303715124	06280	41S 24E 3	DSCR	POW	30	67	23	302
#9-12 4303715126	06280	41S 24E 9	DSCR	POW	30	112	654	17363
#9-14 4303715127	06280	41S 24E 9	DSCR	POW	30	201	315	423
#28-12 4303715336	06280	41S 24E 28	PRDX	POW	29	112	47	2428
#29-12 4303715337	06280	41S 24E 29	PRDX	POW	29	56	0	672
#29-32 4303715339	06280	41S 24E 29	DSCR	POW	29	1402	287	2224
#29-34 4303715340	06280	41S 24E 29	DSCR	POW	29	757	48	0
#30-32 4303715342	06280	41S 24E 30	DSCR	POW	29	588	1049	3744
#3-12 4303715620	06280	41S 24E 3	DSCR	POW	30	268	11	363
#9-34 4303715711	06280	41S 24E 9	DSCR	POW	30	45	46	9800
#10-12 4303715712	06280	41S 24E 10	DSCR	POW	30	45	23	1088
TOTALS						5138	3480	41370

COMMENTS: Effective July 1, 1993, Phillips Petroleum Company has sold its interest in the Ratherford Unit to Mobil Exploration and Producing U.S., Incorporated, P. O. Box 633, Midland, Texas 79702. Mobil assumed operations on July 1, 1993.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 8/11/93

Name and Signature: PAT KONKEL *Pat Konkell* Telephone Number: 505 599-3452

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR: MOBIL OIL CORPORATION

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. See also space 17 below.)  
At surface: Sec. 20 41S 24E

5. LEASE DESIGNATION & SERIAL NO.:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO TRIBAL

7. UNIT AGREEMENT NAME: RATHERFORD UNIT

8. FARM OR LEASE NAME:

9. WELL NO.: 20-67

10. FIELD AND POOL, OR WILDCAT: GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA:

12. COUNTY: SAN JUAN

13. STATE: UTAH

14. API NO.: 43-037-31590

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

DIVISION OF OIL, GAS & MINING

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>CHANGE OF OPERATOR</u> <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

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

\* Must be accompanied by a cement verification report.

AS OF JULY 1, 1993, MOBIL OIL CORPORATION IS THE OPERATOR OF THE RATHERFORD UNIT. ATTACHED ARE THE INDIVIDUAL WELLS.

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

SIGNED Shirley Todd TITLE ENV. & REG TECHNICIAN DATE 9-8-93

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

# MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

*L.S. SHEFFIELD*  
 BRIAN BERRY  
 M E P N A MOBIL  
 POB 219031 1807A RENTWYR *F.O. DRAWER G*  
 DALLAS TX 75221-9031 *CORTEZ, Co. 81321*

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 7 / 93

AMENDED REPORT  (Highlight Changes)

*\*931006 updated. jic*

ENTITY NUMBER	PRODUCT	GRAVITY	BEGINNING INVENTORY	VOLUME PRODUCED	DISPOSITIONS				ENDING INVENTORY
		BTU			TRANSPORTED	USED ON SITE	FLARED/VENTED	OTHER	
05980	OIL			177609	177609	0			
	GAS			72101	66216	5885			
11174	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
TOTALS				249710	243925	5885			

**RECEIVED**

SEP 13 1993

DIVISION OF OIL, GAS & MINING

COMMENTS: *PLEASE NOTE ADDRESS change. Mobil ~~ASO~~ PRODUCTION Reports will be compiled and sent from the Cortez, Co. office IN THE FUTURE.*

I hereby certify that this report is true and complete to the best of my knowledge.

Name and Signature: Lwell B Sheffield

Date: 9/5/93  
 Telephone Number: 303.865.2212  
214.658.2528

Sept 29, 1993

TO: Lisha Cordova - Utah Mining  
Oil & Gas

FROM: Janice Easley  
BLM Farmington, NM  
505 599-6355

Here is copy of Rotherford Unit  
Successor Operator,

4 pages including this one.

*2.6. Ratherford Unit (GC)*

RECEIVED  
BLM

JUL 27 11:44

Navajo Area Office  
P. O. Box 1060  
Gallup, New Mexico 87305-1060

070 FARMINGTON, NM

ARES/543

JUL 26 1993

MINERALS DIVISION
NO. 192
DATE
BY
REMARKS
SPS
ALL SUPPLY
FILED

Mr. G. D. Cox  
Mobil Exploration and  
Producing North America, Inc.  
P. O. Box 633  
Midland, Texas 79702

Dear Mr. Cox:

Enclosed for your information and use is the approved Designation of Operator between the Phillips Petroleum Company and Mobil Exploration and Producing North America, Inc. for the Ratherford Unit.

Please note that all other concerned parties will be furnished their copy of the approved document.

Sincerely,

ACTING Area Director

Enclosure

cc: Bureau of Land Management, Farmington District Office w/enc.  
TNN, Director, Minerals Department w/enc.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS

RECEIVED  
BLM

DESIGNATION OF OPERATOR

JUN 27 11:44

Phillips Petroleum Company is, on the records of the Bureau of Indian Affairs, operator of the Rutherford Unit,

070 FARMINGTON, NM

AREA OFFICE: Window Rock, Arizona  
LEASE NO: Attached hereto as Exhibit "A"

and, pursuant to the terms of the Rutherford Unit Agreement, is resigning as Unit Operator effective July 1, 1993, and hereby designates

NAME: Mobil Exploration and Producing North America Inc., duly elected pursuant to the terms of the Rutherford Unit Agreement,

ADDRESS: P. O. Box 633, Midland, Texas 79702  
Attn: G. D. Cox

as Operator and local agent, with full authority to act on behalf of the Rutherford Unit lessees in complying with the terms of all leases and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160 and 25 CFR 211 and 212) with respect to (described acreage to which this designation is applicable):

Attached hereto as Exhibit "A"

Bond coverage under 25 CFR 211, 212 or 225 for lease activities conducted by the above named designated operator is under Bond Number 05202782 (attach copy). Evidence of bonding is required prior to the commencement of operations.

It is understood that this designation of operator does not relieve any lessee of responsibility for compliance with the terms of the leases and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the leases.

In case of default on the part of the designated operator, the lessees will make full and prompt compliance with all regulations, lease terms, stipulations, or orders of the Secretary of the Interior or his representative.

Attached is the appropriate documentation relevant to this document.

The designated operator agrees to promptly notify the authorized officer of any change in the operatorship of said Rutherford Unit.

Phillips Petroleum Company

June 17, 1993

By: M. B. [Signature]  
Attorney-in-Fact

Mobil Exploration and Producing  
North America Inc.

June 11, 1993

By: B. D. Martiny  
Attorney-in-Fact B.D. MARTINY

[Signature] ACTING AREA DIRECTOR  
APPROVED BY TITLE DATE  
7/9/93

APPROVED PURSUANT, TO SECRETARIAL REDELEGATION ORDER 209 DM 8 AND 230 DM 3.  
This form does not constitute an information collection as defined by 44 U.S.C. 3502 and therefore does not require OMB approval.

EXHIBIT "A"

ATTACHED TO AND MADE A PART OF DESIGNATION OF SUCCESSOR OPERATOR, RATHERFORD UNIT

EXHIBIT "C"

Revised as of September 29, 1992  
SCHEDULE OF TRACT PERCENTAGE PARTICIPATION

<u>Tract Number</u>	<u>Description of Land</u>	<u>Serial Number and Effective Date of Lease</u>	<u>Tract Percentage Participation</u>
1	S/2 Sec. 1, E/2 SE/4 Sec. 2, E/4 Sec. 11, and all of Sec. 12, T-41-S, R-23-E, S.L.M. San Juan County, Utah	14-20-603-246-A Oct. 5, 1953	11.0652565
2	SE/4 and W/2 SW/4 Sec. 5, the irregular SW/4 Sec. 6, and all of Sec. 7 and 8, T-41-S, R-24-E, San Juan County, Utah	14-20-603-368 Oct. 26, 1953	14.4159942
3	SW/4 of Sec. 4, T-41-S, R-24-E, San Juan County, Utah	14-20-603-5446 Sept. 1, 1959	.5763826
4	SE/4 Sec. 4, and NE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4035 March 3, 1958	1.2587779
5	SW/4 of Sec. 3, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5445 Sept. 3, 1959	.4667669
6	NW/4 of Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5045 Feb. 4, 1959	1.0187043
7	NW/4, W/2 NE/4, and SW/4 Sec. 10, SE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4043 Feb. 18, 1958	3.5097575
8	SW/4 Sec. 9, T-41-S, R-24-E, S.L.M. San Juan County, Utah	14-20-603-5046 Feb. 4, 1959	1.1141679
9	SE/4 Sec. 10 and S/2 SW/4 Sec. 11 T-41-S, R-24-E, San Juan County, Utah	14-20-603-4037 Feb. 14, 1958	2.6186804
10	All of Sec. 13, E/2 Sec. 14, and E/2 SE/4 and N/2 Sec. 24, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-247-A Oct. 5, 1953	10.3108861
11	Sections 17, 18, 19 and 20, T-41-S, R-24-E, San Juan County Utah	14-20-603-353 Oct. 27, 1953	27.3389265
12	Sections 15, 16, 21, and NW/4, and W/2 SW/4 Sec. 22, T-41-S, R-24-E, San Juan County, Utah	14-20-603-355 Oct. 27, 1953	14.2819339
13	W/2 Section 14, T-41-S, R-24-E, San Juan County, Utah	14-20-603-370 Oct. 26, 1953	1.8500847
14	N/2 and SE/4, and E/2 SW/4 Sec. 29, NE/4 and E/2 SE/4 and E/2 W/2 irregular Sec. 30, and E/2 NE/4 Sec. 32, T-41-S, R-24-E, San Juan County, Utah	14-20-603-407 Dec. 10, 1953	6.9924969
15	NW/4 Sec. 28, T-41-S, R24-E San Juan County, Utah	14-20-603-409 Dec. 10, 1953	.9416393
16	SE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6504 July 11, 1961	.5750254
17	NE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6505 July 11, 1961	.5449292
18	NW/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6506 July 11, 1961	.5482788
19	NE/4 Sec. 4, T-41-S, R24-E San Juan County, Utah	14-20-0603-7171 June 11, 1962	.4720628
20	E/2 NW/4 Sec. 4, T-41-S, R-24-E San Juan County, Utah	14-20-0603-7172 June 11, 1962	.0992482

100% Indian Lands

TOTAL 12,909.74

100.0000000

Division of Oil, Gas and Mining  
**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:

Well File \_\_\_\_\_

Suspense  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_

Other  
**OPERATOR CHANGE**

(Location) Sec \_\_\_ Twp \_\_\_ Rng \_\_\_  
(API No.) \_\_\_\_\_

1. Date of Phone Call: 10-6-93 : Time: 9:30

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

Name GLEN COX (Initiated Call  - Phone No. (915) 688-2114

of (Company/Organization) MOBIL

3. Topic of Conversation: OPERATOR CHANGE FROM PHILLIPS TO MOBIL "RATHERFORD UNIT".

(NEED TO CONFIRM HOW OPERATOR WANTS THE WELLS SET UP - MEPNA AS PER BIA APPROVAL

OR MOBIL OIL CORPORATION AS PER SUNDRY DATED 9-8-93?)

4. Highlights of Conversation: \_\_\_\_\_

MR. COX CONFIRMED THAT THE WELLS SHOULD BE SET UNDER ACCOUNT N7370/MEPNA AS

PER BIA APPROVAL, ALSO CONFIRMED THAT PRODUCTION & DISPOSITION REPORTS WILL NOW

BE HANDLED OUT OF THEIR CORTEZ OFFICE RATHER THAN DALLAS.

MEPNA-

PO DRAWER G

CORTEZ, CO 81321

(303)565-2212

\*ADDRESS CHANGE AFFECTS ALL WELLS CURRENTLY OPERATED BY MEPNA, CURRENTLY

REPORTED OUT OF DALLAS (MCELMO CREEK).

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1	VEC/17-83
2	DEB/58-RFB
3	VLC
4	RJB
5	JPB
6	PL

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: 7-1-93)

TO (new operator) <u>M E P N A</u>	FROM (former operator) <u>PHILLIPS PETROLEUM COMPANY</u>
(address) <u>PO DRAWER G</u>	(address) <u>5525 HWY 64 NBU 3004</u>
<u>CORTEZ, CO 81321</u>	<u>FARMINGTON, NM 87401</u>
<u>GLEN COX (915)688-2114</u>	<u>PAT KONKEL</u>
phone <u>(303)565-2212</u>	phone <u>(505)599-3452</u>
account no. <u>N7370</u>	account no. <u>N0772(A)</u>

Well(s) (attach additional page if needed):      **\*RATHERFORD UNIT (NAVAJO)**

Name: <b>**SEE ATTACHED**</b>	API: <u>43037.31590</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**

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 8-20-93) (6/93 Prod. Rpt. 8-16-93)
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 8-31-93) (Rec'd 9-14-93)
- 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: \_\_\_\_\_.
- Sec 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.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (O&G wells 10-6-93) (wiw's 10-26-93)
- Sec 6. Cardex file has been updated for each well listed above. (O&G wells 10-6-93) (wiw's 10-26-93)
- Sec 7. Well file labels have been updated for each well listed above. (O&G wells 10-6-93) (wiw's 10-26-93)
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-6-93)
- Sec 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

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

BOND VERIFICATION (Fee wells only)

- 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) no. Today's date 11-17 1993. If yes, division response was made by letter dated 11-17 1993.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 11-17 1993, 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.
- 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: 11-17 1993.

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

931006 BIA/Btm Approved 7-9-93.

**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	API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes			
							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						
<b>TOTALS</b>										

COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Division of Oil, Gas and Mining  
**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).

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

1-LEC	7-PL
2-LWP	8-SJ
3-DES	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) <u>MOBIL EXPLOR &amp; PROD</u>	FROM (former operator) <u>M E P N A</u>
(address) <u>C/O MOBIL OIL CORP</u>	(address) <u>C/O MOBIL OIL CORP</u>
<u>PO DRAWER G</u>	<u>PO DRAWER G</u>
<u>CORTEZ CO 81321</u>	<u>CORTEZ CO 81321</u>
phone <u>(303 ) 564-5212</u>	phone <u>(303 ) 564-5212</u>
account no. <u>N7370</u>	account no. <u>N7370</u>

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

Name: <u>** SEE ATTACHED **</u>	API: <u>037-31596</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: _____

**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.
- Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- Yes 6. Cardex file has been updated for each well listed above. 8-21-95
- Yes 7. Well file labels have been updated for each well listed above. 9-28-95
- Yes 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)
- Yes 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 LIC F5 / Not necessary!*

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.  
**14-20-603-353**

6. If Indian, Allottee or Tribe Name  
**NAVAJO TRIBAL**

7. If Unit or CA/Agreement, Name and/or No.  
**RATHERFORD UNIT**

8. Well Name and No.  
**RATHERFORD 20-67**

9. API Well No.  
**43-037-31590**

10. Field and Pool, or Exploratory Area  
**GREATER ANETH**

11. County or Parish, State  
**SAN JUAN UT**

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**MOBIL PRODUCING TX & NM INC.\***  
**\*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM**

3a. Address  
**P.O. Box 633, Midland TX 79702**

3b. Phone No. (include area code)  
**(915) 688-2585**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**NE/SW SEC. 20, T41S, R24E**  
**2629' FWL & 1412' FWL**

12. CHECK APPROPRIATE BOX(ES) 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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Coompleted Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

SEE ATTACHED PROCEDURE FOR CONVERSION OF OIL PRODUCER TO INJECTION WELL.

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

NOV 23 1999  
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct  
 Name (Printed/Typed) **SHIRLEY HOUCHINS** Title **ENV & REG TECH**

*Shirley Houchins* Date **11-19-99**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Office \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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

**Ratherford Unit #20-67**  
**Convert to WAG Injection**

**Workover Procedure**

1. Well is to be converted to WAG injection. Prior to MIRU, confirm that 5600' of 2-7/8" DuoLine 20 and tubing subs is available. Also, secure injection packer from HES/Guiberson and wellhead from Kvaerner.
  
2. MIRU DDPU. POH w/rods and pump, laying down as follows:  
  
(From 1991 completion)  
⇒ 1.50" x 26' polished rod  
⇒ 66 – 1" steel rods  
⇒ 68 – 7/8" steel rods  
⇒ 90 – 3/4" steel rods  
⇒ 2.50" x 1.75" x 24' insert pump
  
3. Kill well as necessary. ND wellhead/NU BOP's and test using chart. POH w/production tubing, laying down as follows:  
  
(From 1991 completion)  
⇒ +/-175 jt 2-7/8" 6.5#, J-55 tbg  
⇒ 7" x 2-7/8" TAC @ 5512'  
⇒ +/-5 jt 2-7/8" 6.5#, J55 tbg  
⇒ Seating nipple @ 5654'  
⇒ Bull plugged perfed sub
  
4. MI and rack 5800' 2-7/8" WS. RIH w/6-1/8" bit on 2-7/8" WS. (7", 26#, casing, 1033', ID – 6.276", Drift – 6.151") CO to 5739' – PBTD. Bottom perf – 5618'. Circulate hole clean. POH w/bit.
  
5. PU 7" RBP and treating packer. Set RBP at +/-5550'. Test RBP to 1000 psi. Test casing to 1000 psi. If no casing leak found, POH w/tbg and RBP, continue w/Step 6. If casing will not test, consult w/engineer.

6. Re-perforate Desert Creek pay as follows:

MIRU wireline. RIH w/4" casing gun loaded @ 2 JSPF with 23 gm charges, 90 degree phasing. Correlate to Schlumberger GR/CNL/LDT dated 04/16/91. Mobil perforating safety guidelines require the use of a 50 ohm or greater resistance type blasting cap and grounding wire.

<u>Zone</u>	<u>Interval</u>	<u>Feet</u>	<u>Holes</u>
Desert Creek 1A&B	5566'-5595'	29	59
Desert Creek 1C	5607'-5618'	11	23
		40	82

7. RDMO wireline. RIH w/packer for 7", 26# casing on 2-7/8" WS to +/- 5500'. Spot 1000 gal Xylene to EOT. Set packer at +/-5500'. Pressure annulus to 500 psi. Displace Xylene to bottom perf. SION. Flow back to tank.

8. MIRU Schlumberger/Dowell. Acidize down 2-7/8" WS w/4000 gal 15% HCl @ 3-5 BPM and 3000 psi as follows:

- Establish injection rate down 2-7/8" tbg w/FW
- Pump 500 gal. 15% HCl
- Pump 1500 gal. FW w/40 "BioBalls" Soluble ball sealers
- Pump 1500 gal. 15% HCl
- Pump 1500 gal. FW w/40 "BioBalls" Soluble ball sealers
- Pump 2000 gal. 15% HCl
- Flush w/40 bbl FW

Adjust ball sealers as necessary if well pressures up after first diversion. BioBalls should solubilize quickly after 10 hours.

Acidize w/following system: 15% HCl  
2 gpt A-261 (inhibitor)  
5 gpt U-42 (iron sequestrant)  
1 gpt W54 (non-emulsifer)  
10 ppt L58(iron stabilizer)  
10 gpt U100 (mutual solvent)

8. Flow/Swab well as necessary.

9. Kill well as necessary. Release packer and POH, LD WS.

10. PU new G-6 injection packer with on/off tool. Nitrogen test tubing connections going in hole. Test to 3500 psi. RIH w/injection equipment as follows:

- 7" x 2-7/8" G-6 @ +/-5500' w/wireline reentry guide and pump-out plug
- 7" x 2-7/8" x 1.81" "F" XL on/off w/316 SS gudgeon and Ni plated seal body modified to accept DuoLine corrosion barrier ring
- XO's as needed
- +/-172 jt - 2-7/8" DuoLine 20 tubing w/high performance CB rings
- 2-7/8" DuoLine 20 tubing subs w/high performance CB rings as needed to space out
- 1 jt - 2-7/8" DuoLine 20 landing jt w/high performance CB rings

11. Rice Engineering technician to be on location to run tbg. Rice recommends the use BestOLife 2000 thread lubricant. Set packer @ +/-5500'. Release from on/off tool. Test annulus to 1000 psi. Circulate packer fluid. Latch back onto on/off tool. ND BOP's/NU WH. Space out as needed. Pump out plug in packer.

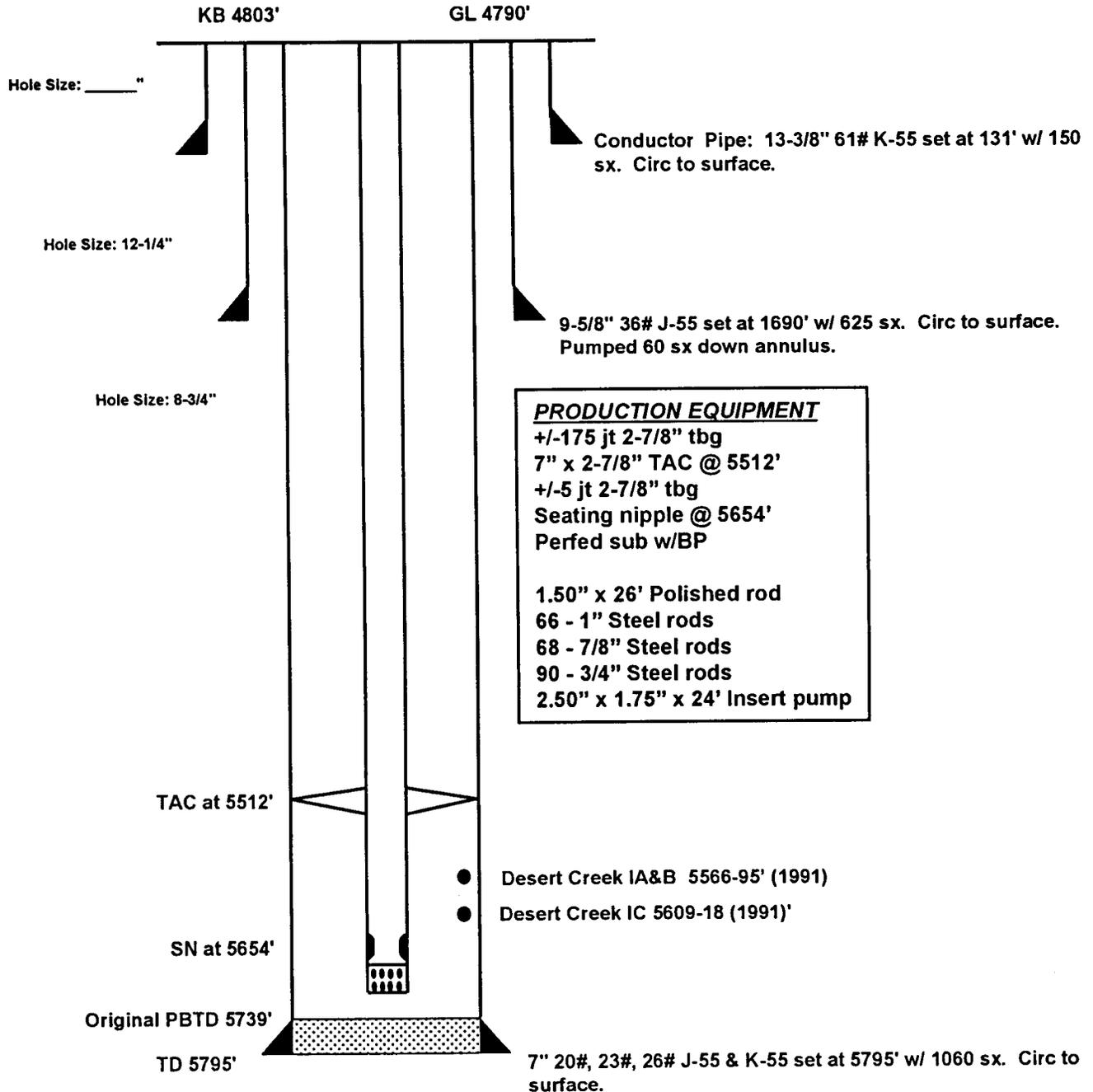
12. If there is no leak off, RDMO.

13. Call Navajo EPA 72 hours prior to conducting MIT. They should be on location to witness MIT. *If it is not possible to give 72 hours notice, test well prior to RDMO and inform Production of need to schedule MIT w/Regulatory agencies. Remember that the clock starts from the time they receive notice, not from the time you talk to the answering machine. Document the occurrence and results of all conversations in morning reports. Run MIT test and chart. Send original to Sue Moseley and keep copy for records.*

**RATHERFORD UNIT # 20-67  
 GREATER ANETH FIELD  
 2629' FSL & 1412' FWL  
 SEC 20-T41S-R24E  
 SAN JUAN COUNTY, UTAH  
 API 43-037-31590  
 PRISM 0043108**

**PRODUCER  
 CURRENT**

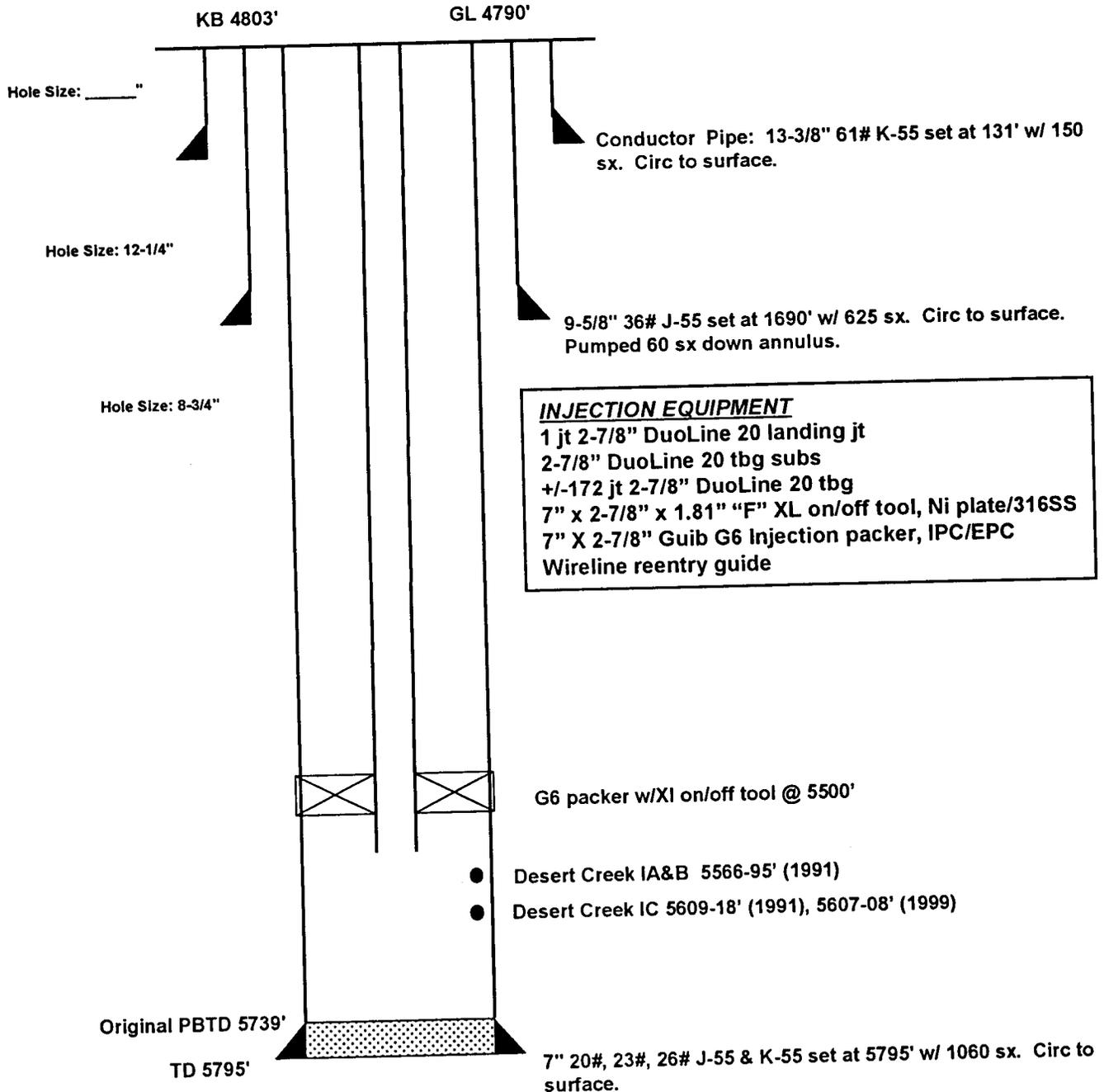
Capacities:	bbbl/ft	gal/ft	cuft/ft
2-7/8" 6.5#	.00579	.2431	.0325
7" 20#	.0404	1.7005	.2273
7" 23#	.0393	1.6535	.2210
7" 26#	.0382	1.6070	.2148
2-7/8"x7"20#	.0325	1.3633	.1822
2-7/8"x7"23#	.0313	1.3162	.1760
2-7/8"x7"26#	.0302	1.2698	.1697



**RATHERFORD UNIT # 20-67W  
 GREATER ANETH FIELD  
 2629' FSL & 1412' FWL  
 SEC 20-T41S-R24E  
 SAN JUAN COUNTY, UTAH  
 API 43-037-31590  
 PRISM 0043108**

**PRODUCER  
 PROPOSED  
 WAG INJECTOR**

Capacities:	bbl/ft	gal/ft	cuft/ft
2-7/8" 6.5#	.00579	.2431	.0325
7" 20#	.0404	1.7005	.2273
7" 23#	.0393	1.6535	.2210
7" 26#	.0382	1.6070	.2148
2-7/8"x7"20#	.0325	1.3633	.1822
2-7/8"x7"23#	.0313	1.3162	.1760
2-7/8"x7"26#	.0302	1.2698	.1697



## PRODUCTION VERIFICATION REPORT

OPERATOR ACCOUNT : N7370

REPORT PERIOD (MONTH/YEAR) : 3 / 2000

ACCOUNT	ENTITY	API	PROD ZONE	WELL STATUS	DAYS PROD	OIL PRODUCED	GAS PRODUCED	WATER PRODUCED
N7370	6280	4303731162	DSCR	P	31	867	694	5,504
N7370	6280	4303731163	DSCR	P	31	962	628	667
N7370	6280	4303731164	DSCR	P	31	1,208	611	0
N7370	6280	4303731165	DSCR	P	31	329	147	164
N7370	6280	4303731166	DSCR	P	31	456	437	4,014
N7370	6280	4303731168	DSCR	P	31	2,542	512	29,688
N7370	6280	4303731169	DSCR	P	31	1,918	2,666	8,132
N7370	6280	4303731170	DSCR	P	31	1,115	4,101	1,374
N7370	6280	4303731177	DSCR	P	31	31	0	161
N7370	6280	4303731178	DSCR	P	31	339	319	1,085
N7370	6280	4303731181	DSCR	P	31	5,037	3,616	4,534
N7370	6280	4303731182	DSCR	P	31	654	570	515
N7370	6280	4303731189	DSCR	P	31	540	151	634
N7370	6280	4303731190	DSCR	P	31	2,160	1,739	2,664
N7370	6280	4303731201	DSCR	P	31	1,434	1,343	4,438
N7370	6280	4303731202	DSCR	P	31	2,399	1,695	34
N7370	6280	4303731203	DSCR	P	31	1,895	1,074	3,189
N7370	6280	4303731236	DSCR	P	31	683	336	32
N7370	6280	4303731544	DSCR	P	31	2,547	1,792	22,636
N7370	6280	4303731589	DSCR	P	30	1,558	613	10,465
N7370	6280	4303731590	DSCR	A	0	0	0	0
* CHECK WELL TYPE : 4303731590 : CURRENT WELL TYPE: OW ; NEW WELL TYPE : WI						(mobil) <sup>0</sup>	0	0
N7370	6280	4303731591	DSCR	P	31	1,034	970	1,252
N7370	6280	4303731592	DSCR	P	31	5,685	4,886	23,484
N7370	6280	4303731593	DSCR	P	31	363	232	5,764
N7370	6280	4303731596	DSCR	P	31	315	564	1,483
N7370	6280	4303731622	DSCR	P	31	2,362	964	686
N7370	6280	4303731623	DSCR	P	31	584	700	2,952
N7370	6280	4303731719	DSCR	P	31	2,324	1,583	4,947
N7370	6280	4303731720	DSCR	P	30	3,030	938	15,038
N7370	6280	4303731754	DSCR	P	31	874	229	27
N7370	6280	4303731758	DSCR	P	31	1,026	604	17,897
N7370	6280	4303731768	IS-DC	P	31	5,492	551	14,688

(mobil)<sup>0</sup> Done to 056H  
6/8/00

CONVERT TO INJECTION  
W I W. PERMITTED  
BY EPA. INCOMPLETE  
INFORMATION AVAILABLE TO  
DOG.M.

BA

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an Abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
14-20-603-353

6. If Indian, Allottee or Tribe Name  
NAVAJO TRIBAL

7. If Unit or CA/Agreement, Name and/or No.  
RATHERFORD UNIT

8. Well Name and No.  
RATHERFORD UNIT #20W67

9. API Well No.  
43-037-31590

10. Field and Pool, or Exploratory Area  
GREATER ANETH

11. County or Parish, State  
SAN JUAN, UTAH

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well  Gas Well  Other **INJECTION WELL**

2. Name of Operator  
Mobil Producing TX & NM Inc. \*

3a. Address  
P.O. Box 4358 Houston, TX 77210-4358

3b. Phone No. (include area code)  
713-431-1197

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
NE/SW SEC. 20, T41S, R24E 2629' FSL & 1412' FWL

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>MIT RESULTS</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

MIT results and chart are attached.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Ellen M. Carroll	Title Senior Staff Office Assistant	* ExxonMobil Production Company, A division of Exxon Mobil Corporation, acting for Mobil Producing Texas & New Mexico, Inc.
Signature <i>Ellen M. Carroll</i>	Date 5/12/2000	

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

# ANNULAR PRESSURE TEST

(Mechanical Integrity Test)

Operator EXXON-MOBIL VS WEST Date of Test 2-4-2000  
 Well Name RATHERFORD UNIT WELL# 2067 EPA Permit No. \_\_\_\_\_  
 Location NESW SEC 20, T41S, R24E Tribal Lease No. 1420603353  
 State and County SAN JUAN COUNTY, UTAH

Continuous Recorder? YES  NO  Pressure Gauge? YES  NO   
 Bradenhead Opened? YES  NO  Fluid Flow? YES  NO

TIME	ANNULUS PRESSURE, psi		TUBING PRESSURE, psi
	0-2000 psi gauge	0-1500 psi recorder	
10:49 Am	1080	1100	0
10:54 Am	1080	1100	
10:59 Am	1079	1099	
11:04 Am	1078	1098	
11:09 Am	1078	1095	
11:14 Am	1078	1095	
11:19 Am	1075	1095	↓

MAX. INJECTION PRESSURE: 3000 PSI  
 MAX. ALLOWABLE PRESSURE CHANGE: 54.0 PSI (TEST PRESSURE X 0.05)

REMARKS: Passed? Failed? If failed, cease injection until well passes MIT (40CFR§144.21(c)(6)).

Well had workover done, reason for MIT.  
 Inactive  
 No bradenhead above ground.  
 Passed MIT

Larison Blackgait  
 COMPANY REPRESENTATIVE: (Print and Sign)

2/4/00  
 DATE

MELVINA K. CLAH  
 INSPECTOR: (Print and Sign)

2-4-2000  
 DATE



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: July 31, 1996

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <b>Injector</b>		5. Lease Serial No. <b>14-20-603-353</b>
2. Name of Operator <b>Exxon Mobil Corporation</b>		6. If Indian, Allottee or Tribe Name <b>NAVAJO TRIBAL</b>
3a. Address <b>P.O. Box 4358</b> <b>Houston TX 77210-4358</b>	3b. Phone No. (include area code) <b>(713) 431-1012</b>	7. If Unit or CA/Agreement, Name and/or No. <b>Ratherford Unit</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>2629' FSL &amp; 1412' FWL, NE/SW Sec. 20, T41S, R24E</b>		8. Well Name and No. <b>Ratherford Unit 20W67</b>
		9. API Well No. <b>43-037-31590</b>
		10. Field and Pool, or Exploratory Area <b>GREATER ANETH</b>
		11. County or Parish, State <b>SAN JUAN UT</b>

12. CHECK APPROPRIATE BOX(es) 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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	_____
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including recalculation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Mobil Exploration & Producing US Inc., as agent for Mobil Producing Texas & New Mexico Inc. and Mobil Exploration & Producing North America Inc., requests authorization to acid frac subject well. Procedure is attached.**

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

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) <b>Alex M. Correa</b>	Title <b>Sr. Regulatory Specialist</b>
Signature 	Date <b>01/09/2001</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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.

# SUB SURFACE MAINTENANCE PROGRAM

WELL NO : Ratherford 2067

WO NUMBER :

WBS ELEMENT:

SECTION/TOWNSHIP/RANGE: SEC 20 – T41S – R24E

COUNTY INFO: San Juan County, Utah

## OBJECTIVE

To perform an acid frac in Desert Creek formation, and return well to injection.

## EHS Instructions

- A. All potential loss of well control and/or spills of formation fluids must be reported to the necessary governing agency immediately.
- B. Material Safety Data Sheets (MSDS) must be maintained on location for all materials and fluids except standard lubricants.
- C. SPCC plans for both the operator and the rig contractor should be available on location, preferably posted for convenience.
- D. Location hazard diagram provided should be distributed to the appropriate contractors.
- E. H2S exposure radius sheet attached should also be posted for workers to see.
- F. All discolored soil should be picked up and taken to the remediation area. Replace with remediated soil.

*When closing pits, cut the pit liner at the mud line & then backfill according to field specs. For more information contact Davis Benallie of the Navajo EPA.*

## GENERAL PROCEDURES.

(1) MI H2S monitors and establish wind direction.

(2) Prior to MIRU PU, MIRU wireline company and set plug in 1.81" F profile located in the 2 3/8" x 7" XL on/off tool @ 5484.37' to 5486.57'. Circ inhibited 10ppg down the tbg. 3hrs

*Note – This step will require and MOC because there is only one isolation method.*

(3) MIRU PU. NU BOP/Hydril. Release from on/off tool and circ 10ppg brine. 3hrs

(4) Pick up on tbg and LD 1" jt (landing joint) and LD 2nd joint of 2 7/8" Duoline. PU a joint of 2 7/8" TK15 (run as top joint) tbg, 2 7/8" Duoline landing joint, and latch back onto on/off tool. 2hr

*Note1 – Make sure the new 2 7/8" TK15 joint is within +/- 3" of the 2 7/8" Duoline joint it replaced.*

*Note 2 – When mating a joint of EUE 8-round Duoline to an unlined accessory, such as a packer or coated tbg joint, the most important consideration is that a corrosion barrier ring (CBR) must be compressed against the Duoline joint to protect the lined joint from corrosion. Two combinations exist: a Duoline pin mating into a unlined accessory coupling or box, or an unlined pin mating into a Duoline box or coupling.*

*Note 3 - This tbg joint (TK15) will eliminate the need for a workover rig in future acid fracs because it has one ID as opposed to two IDs in the Duoline tbg. The two ID s in the Duoline make it impossible to use a Tree Saver to isolate pressure because the tool can't travel through the 'C' section of the pipe and pack off in the 'B' section.*

- (5) MIRU wireline company and retrieve plug from 1.81F profile. Check integrity of connection by pressuring up on the tbg and monitoring the csg pressure. 2hrs
- (6) RDMO pulling unit. 2hrs
- (7) Once well control has been re-confirmed, proceed to MIRU 2 clean (lined to Schlumberger specs) 500bbl frac tanks, and 1 clean 400bbl frac tank.
- (8) MIRU crane company and install tree saver on top of wellhead flange.

#### Wellhead Detail – Flow tee connection

- Nipple
- 2 7/8" Master valve
- 2 7/8" Duoline tbg joint
- Tbg flange connection to tbg head

*Note – The objective of the tree saver is to isolate the injection wellhead valves and flow tee from the stimulation pressure. The tbg tree saver is installed on top of the flow tee with premium Grayloc couplings. The tbg tree saver hydraulically injects and removes the mandrel under wellhead pressure.*

- (9) MIRU Schlumberger company. Acidize down the existing 2 7/8" injection string with the sole objective of gaining the longest etched frac length possible. Use the following pump schedule:

- Acid – Pump 2500gal with a 28% HCL concentration @ 6bpm
- Pad - Pump 2500gal with WF130 @ 6bpm
- SXE – Pump 5000gal with 20% SXE @ 6bpm
- Pad – Pump 2500gal with WF130 @ 6bpm
- SXE – Pump 5000gal with 20% SXE @ 6bpm
- Pad - Pump 2500gal with WF130 @ 6bpm
- Acid – Pump 2000gal with 28% HCL @ 6bpm
- Overflush – Pump 3000gal of 2%KCL water @6bpm

#### Fluid Descriptions

##### SXE 20%

- 2.5gal/mbal – A166, corrosion inhibitor
- 700gal/mgal – H2O, 20% HCL
- 10gal/mgal – U80, emulsifying agent
- 5gal/mgal – U42, chelating agent
- 10lb/mgal – L58, iron stabilizer
- 300gal/mgal – U51, diesel oil

##### WF 130

- 6.75gal/mgal – J877, Guar polymer slurry
- 2.00gal/mgal – L64, clay stabilizer
- 1lb/mgal – J218, breaker

- 1gal/mgal – F75N, EZEFL<sup>™</sup>, surfactant

### HCL 28%

- 1000gal/mgal – H28, 28% HCL
- 2gal/mgal – A261, corrosion inhibitor
- 1gal/mgal – F75N, EZEFL<sup>™</sup>, surfactant
- 5gal/mgal – U42, chelating agent
- 10lb/mgal – L58, iron stabilizer
- 20gal/mgal – U100, mutual solvent

(10) RDMO Schlumberger and Tree Saver. The well should be shut-in for at least 4 – 6hrs for the emulsion to break.

*Note – Get a final check from ExxonMobil safety tech regarding H2S levels prior proceeding to step 6.*

(11) Flow well back and recover load in tanks and/or pit until returns clean up. Baker Chemical Tech (Gary Roberts 970-749-7175) will determine when its safe to return the well to injection.

(12) MIRU logging company. Prepare to obtain temp survey by using the following guidelines:

- Log must be completed no more than 24hrs after the frac job.
- Logging speed must remain constant and should be in the range of 20–30 ft/min.
- Logging sensitivity should be 1 degree F/ inch.
- Allow logging tool to come to equilibrium by holding it stationary at the starting depth for a minimum of 5min before logging down.

(13) Log from surface to 5618'. RDMO logging company.

(14) Clean location.

(15) Notify Rutherford operations tech James Madison (970-565-1351 or pgr – 505-324-4748) and have him perform PSSR (pre-start up safety review).

**atherford 2067**  
**WELL ID**  
**API # 43-037-31590**  
**SEC 20 - T41S - R24E**

**OVERALL OBJECTIVE:**  
 (1) To perform acid frac  
 (2) Flowback fluid  
 (3) Return well to injection

Conductor pipe - 13 3/8",  
 61#, K55, 131' w/ 150sx

Surface csg - 9 5/8", 36#,  
 J55, 1690', w/ 625sx

173jts of Tbg  
 Surface Csg Shoe @ 1690'

**MUD WEIGHT:**  
**MUD VISCOSITY:**

**COMPLETION DATE:** \_\_\_\_\_  
**TOTAL COST:** \_\_\_\_\_

**EXISTING EQUIPMENT**

Run time - 1/25/00  
 KB - Add 10'

5490.27' - 5490.68' WL  
 re-entry guide  
 5486.57' - 5490.27'  
 Guiberson/HES 7" PC  
 G-6 pkr @ 5490.27'  
 5484.37' - 5486.57' - 316  
 SS XL tool w/ 1.81"  
 F profile  
 5483.62' - 5484.37' - X-  
 over 2 3/8" x 2 7/8"  
 5483.62' - 173jts of 2  
 7/8" new Duoline tbg  
 41.46' - 41.76' - 6"  
 Duoline nipple  
 41.46' - 10' - 1 landing  
 jt of 2 7/8" Duoline tbg

**NEW EQUIPMENT INFO**

- Same as existing



Guiberson 7" G6 pkr @ 5490.27'

Perfs  
 5566' - 5595'  
 5607' - 5618'

Production Csg - 7", 20#,  
 23#, 26#, J55, K55, 5795'  
 w/ 1060sx

PBTD - 5739'  
 TD - 5795'

**ExxonMobil Production Comp**  
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.

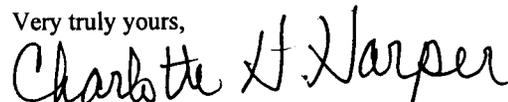
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

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 27 2001

DIVISION OF  
OIL, GAS AND MINING



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

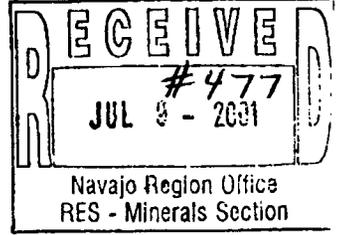
*BB 7/12/2001*  
*SH*  
*593*  
*File*

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.

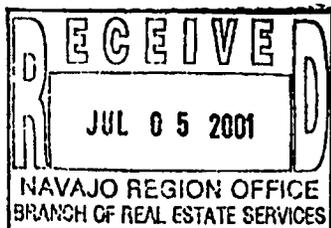
If you have any questions , please contact Alex Correa at (713) 431-1012.

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

SAL

FILE NO. 15055000000

**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;

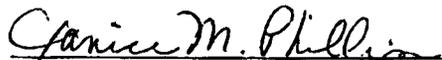
FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective 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.

  
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.

  
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 Chubb Plaza South, Suite 1900, Houston, Texas 77027-3301  
Telephone: (713) 297-4600 • Facsimile: (713) 297-4750

*New 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 12<sup>th</sup> of June, 2001.

**ExxonMobil Oil Corporation**

By :



**FEDERAL INSURANCE COMPANY**

By:

*Mary Pierson*  
Mary Pierson, Attorney-in-fact



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.

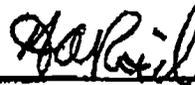
CSC  
CSC

5184334741

06/01 '01 08:47 NO.410 04/05  
06/01 '01 07:06 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. Ritch, President 

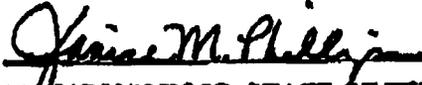
STATE OF TEXAS        )  
COUNTY OF DALLAS    )

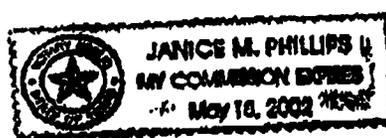
F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.

  
\_\_\_\_\_  
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. 137 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

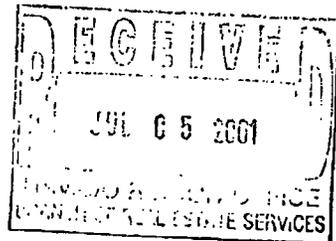
5959 Las Colinas Blvd.  
(Mailing address)

TAX \$ \_\_\_\_\_  
BY: *SAC*

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

*ny Albany*

*Cust Ref # 165578MPJ*



**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. H. ...", written over a horizontal line.

*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**

<b>FROM: (Old Operator):</b>	<b>TO: ( New Operator):</b>
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 U 19W21	19-41S-24E	43-037-15741	6280	INDIAN	WI	A
DSRT A-26 (RATHERFORD 19W23)	19-41S-24E	43-037-15742	99990	INDIAN	WI	A
RATHERFORD U 19-32	19-41S-24E	43-037-15743	6280	INDIAN	WI	A
RATHERFORD U 19-34	19-41S-24E	43-037-15744	6280	INDIAN	WI	A
DESERT A-24 (RATHERFORD 19W41)	19-41S-24E	43-037-15745	99990	INDIAN	WI	A
DESERT A-23 (RATHERFORD 19W43)	19-41S-24E	43-037-16420	99990	INDIAN	WI	A
RATHERFORD U 20-12	20-41S-24E	43-037-15746	6280	INDIAN	WI	I
RATHERFORD U 20-14	20-41S-24E	43-037-15747	6280	INDIAN	WI	A
DESERT A-18 (RATHERFORD 20W23)	20-41S-24E	43-037-15748	99990	INDIAN	WI	A
RATHERFORD U 20-32	20-41S-24E	43-037-15749	6280	INDIAN	WI	A
RATHERFORD U 20-34	20-41S-24E	43-037-15750	6280	INDIAN	WI	A
RATHERFORD 20W41 (DESERT A-27)	20-41S-24E	43-037-15751	99990	INDIAN	WI	A
RATHERFORD 20-67	20-41S-24E	43-037-31590	6280	INDIAN	WI	A
RATHERFORD U 21-14	21-41S-24E	43-037-15753	6280	INDIAN	WI	I
RATHERFORD UNIT 21-67	21-41S-24E	43-037-31753	6280	INDIAN	WI	A
RATHERFORD UNIT 28-12	28-41S-24E	43-037-15336	6280	INDIAN	WI	A
NAVAJO A-19 (RATHERFORD 28W21)	28-41S-24E	43-037-16431	99990	INDIAN	WI	A
RATHERFORD U 29-12	29-41S-24E	43-037-15337	6280	INDIAN	WI	A
RATHERFORD U 29-32	29-41S-24E	43-037-15339	6280	INDIAN	WI	A
RATHERFORD 29W21	29-41S-24E	43-037-16432	99990	INDIAN	WI	A
NAVAJO B-5 (RATHERFORD 30W41)	30-41S-24E	43-037-15343	99990	INDIAN	WI	A
NAVAJO B-16 (RATHERFORD 30W21)	30-41S-24E	43-037-16435	99990	INDIAN	WI	I

**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 contacted on:           N/A          

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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          

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7. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on:           06/01/2001          

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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          

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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            
**NOTE: EPA ISSUES UIC PERMIT**

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**DATA ENTRY:**

- 1. Changes entered in the Oil and Gas Database on:           04/11/2002
- 2. Changes have been entered on the Monthly Operator Change Spread Sheet on:           04/11/2002
- 3. Bond information entered in RBDMS on:           N/A
- 4. Fee wells attached to bond in RBDMS on:           N/A

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**STATE WELL(S) BOND VERIFICATION:**

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

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**FEDERAL WELL(S) BOND VERIFICATION:**

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

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**INDIAN WELL(S) BOND VERIFICATION:**

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

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**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

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**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

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**COMMENTS:**

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Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>
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:		<b>6/1/2006</b>
<b>FROM:</b> (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936	<b>TO:</b> ( New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600	
<b>CA No.</b>	<b>Unit:</b>	<b>RATHERFORD (UIC)</b>

**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:**

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

UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

Well Name and Number See attached list		API Number Attached
Location of Well		Field or Unit Name Rutherford Unit
Footage: See attached list	County: San Juan	Lease Designation and Number See attached list
QQ, Section, Township, Range:	State: UTAH	

**EFFECTIVE DATE OF TRANSFER:** 6/1/2006

**CURRENT OPERATOR**

Company: Exxon Mobil Oil Corporation Name: \_\_\_\_\_  
 Address: PO Box 4358 Signature: \_\_\_\_\_  
city Houston state TX zip 77210-4358 Title: \_\_\_\_\_  
 Phone: (281) 654-1936 Date: \_\_\_\_\_  
 Comments: Exxon Mobil has submitted a separate, signed copy of UIC Form 5

**NEW OPERATOR**

Company: Resolute Natural Resources Company Name: Dwight E Mallory  
 Address: 1675 Broadway, Suite 1950 Signature:   
city Denver state CO zip 80202 Title: Regulatory Coordinator  
 Phone: (303) 534-4600 Date: 4/20/2006  
 Comments: A list of affected UIC wells is attached.  
 New bond numbers for these wells are:  
 BIA Bond # PA002769 and US EPA Bond # B001252

(This space for State use only)

Transfer approved by:   
 Title: Field Operations Manager Approval Date: 6/12/06

Comments:

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

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>See attached list</b>
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: <b>Navajo Tribe</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>		7. UNIT or CA AGREEMENT NAME: <b>Ratherford Unit</b>
2. NAME OF OPERATOR: <b>Resolute Natural Resources Company</b> <i>N2700</i>		8. WELL NAME and NUMBER: <b>See attached list</b>
3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>	PHONE NUMBER: <b>(303) 534-4600</b>	9. API NUMBER: <b>Attached</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>See attached list</b>		10. FIELD AND POOL, OR WILDCAT: <b>Greater Aneth</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		COUNTY: <b>San Juan</b>
		STATE: <b>UTAH</b>

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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 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) Dwight E Malloy TITLE Regulatory Coordinator

SIGNATURE *Dwight E Malloy* DATE 4/20/2006

(This space for State use only)

**APPROVED** 6127106  
*Earlene Russell*  
Division of Oil, Gas and Mining (See Instructions on Reverse Side)  
Earlene Russell, Engineering Technician

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

(5/2000)

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER:
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: <b>Ship Rock</b>
		7. UNIT or CA AGREEMENT NAME: <b>UTU68931A</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>	8. WELL NAME and NUMBER: <b>Ratherford</b>	
2. NAME OF OPERATOR: <b>ExxonMobil Oil Corporation</b> <i>N1855</i>		9. API NUMBER: <b>attached</b>
3. ADDRESS OF OPERATOR: <b>P.O. Box 4358</b> CITY <b>Houston</b> STATE <b>TX</b> ZIP <b>77210-4358</b>	PHONE NUMBER: <b>(281) 654-1936</b>	10. FIELD AND POOL, OR WILDCAT: <b>Aneth</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE:		COUNTY: <b>San Juan</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: <b>UTAH</b>

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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<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 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 injection wells included in the transfer.

NAME (PLEASE PRINT) Laurie Kilbride TITLE Permitting Supervisor

SIGNATURE *Laurie S. Kilbride* DATE 4/19/2006

(This space for State use only) **APPROVED** 6/27/06  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician  
(See Instructions on Reverse Side)

RECEIVED  
APR 21 2006

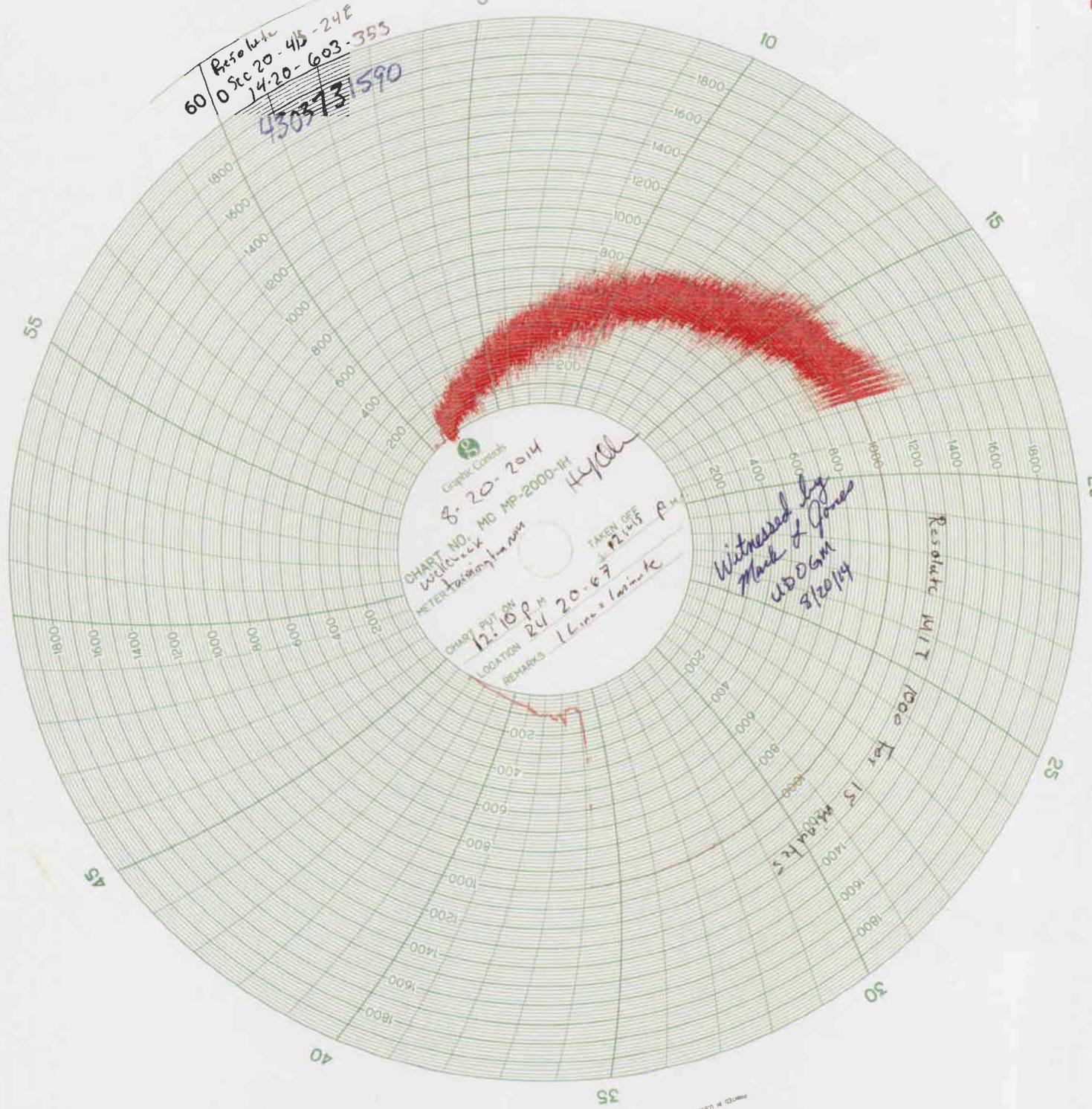
**GREATER ANETH FIELD UIC WELL LIST**  
**Ratherford lease, San Juan County, Utah**

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
RATHERFORD UNIT	1W24	430371583900S1	Shut-in	14-20-603-246A	NE	SE	1	41S	23E	0651FSL	3300FEL
RATHERFORD UNIT	2W44	430371638600S1	Active	14-20-603-246A	SE	SE	2	41S	23E	0810FSL	0510FEL
RATHERFORD UNIT	11W42	430371584100S1	Active	14-20-603-246A	SE	NE	11	41S	23E	3290FSL	4617FWL
RATHERFORD UNIT	11W44	430371584200S1	Shut-in	14-20-603-246A	SE	SE	11	41S	23E	0660FSL	0558FEL
RATHERFORD UNIT	12W11	430371584300S1	Active	14-20-603-246A	NW	NW	12	41S	23E	0678FNL	4620FEL
RATHERFORD UNIT	12W13	430371640400S1	Active	14-20-603-246A	NW	SW	12	41S	23E	1980FSL	4620FEL
RATHERFORD UNIT	12W22	430371584501S1	Active	14-20-603-246A	SE	NW	12	41S	23E	1920FNL	2080FWL
RATHERFORD UNIT	12W24	430373115101S1	Active	14-20-603-246A	SE	SW	12	41S	23E	0775FSL	1980FWL
RATHERFORD UNIT	12W31	430371584700S1	Active	14-20-603-246A	NW	NE	12	41S	23E	0661FNL	1981FEL
RATHERFORD UNIT	12W33	430371584800S1	Active	14-20-603-246A	NW	SE	12	41S	23E	1958FSL	3300FEL
RATHERFORD UNIT	12W42	430371585000S1	Active	14-20-603-246A	SE	NE	12	41S	23E	3275FSL	0662FEL
RATHERFORD UNIT	12W44A	430373154300S1	Shut-in	14-20-603-246A	SE	SE	12	41S	23E	0772FSL	0807FEL
RATHERFORD UNIT	13W11	430373115201S1	Active	14-20-603-247A	NW	NW	13	41S	23E	0500FNL	0660FWL
RATHERFORD UNIT	13W13	430371585100S1	Active	14-20-603-247A	NW	SW	13	41S	23E	1980FSL	4620FEL
RATHERFORD UNIT	13W22	430371585200S1	Active	14-20-603-247A	SE	NW	13	41S	23E	1988FNL	3300FEL
RATHERFORD UNIT	13W24	430371585300S1	Active	14-20-603-247A	SE	SW	13	41S	23E	0660FSL	3300FEL
RATHERFORD UNIT	13W33	430371585501S1	Active	14-20-603-247A	NW	SE	13	41S	23E	1970FSL	1979FEL
RATHERFORD UNIT	13W42	430371585700S1	Shut-in	14-20-603-247A	SE	NE	13	41S	23E	2139FNL	0585FEL
RATHERFORD UNIT	13W44	430371640700S1	Active	14-20-603-247A	SE	SE	13	41S	23E	0653FSL	0659FEL
RATHERFORD UNIT	14-31	430373171700S1	Active	14-20-603-247A	NW	NE	14	41S	23E	0754FNL	1604FEL
RATHERFORD UNIT	14W42	430371586001S1	Active	14-20-603-247A	SE	NE	14	41S	23E	1976FNL	653FEL
RATHERFORD UNIT	24W31	430371586200S1	Shut-in	14-20-603-247A	NW	NE	24	41S	24E	0560FNL	1830FEL
RATHERFORD UNIT	24W42	430371586300S1	Shut-in	14-20-603-247A	SE	NE	24	41S	24E	1980FNL	0660FEL
RATHERFORD UNIT	17W12	430371572601S1	Active	14-20-603-353	SW	NW	17	41S	24E	1980FNL	510FWL
RATHERFORD UNIT	17W14	430371572700S1	Active	14-20-603-353	SW	SW	17	41S	24E	0610FSL	0510FWL
RATHERFORD UNIT	17W21	430371641601S1	Active	14-20-603-353	NE	NW	17	41S	24E	0510FNL	1830FWL
RATHERFORD UNIT	17W23	430371572801S1	Active	14-20-603-353	NE	SW	17	41S	24E	1880FSL	1980FWL
RATHERFORD UNIT	17W32	430371572900S1	TA'd	14-20-603-353	SW	NE	17	41S	24E	1830FNL	2030FEL
RATHERFORD UNIT	17W34	430371573000S1	Active	14-20-603-353	SW	SE	17	41S	24E	0560FSL	1880FEL
RATHERFORD UNIT	17W41	430371573100S1	Shut-in	14-20-603-353	NE	NE	17	41S	24E	0610FNL	0510FEL
RATHERFORD UNIT	17W43	430371641701S1	Active	14-20-603-353	NE	SE	17	41S	24E	1980FSL	0660FEL
RATHERFORD UNIT	18-43B	430373171801S1	Active	14-20-603-353	NE	SE	18	41S	24E	2023FSL	0651FEL
RATHERFORD UNIT	18W12	430373115301S1	Active	14-20-603-353	SW	NW	18	41S	24E	1980FNL	560FWL
RATHERFORD UNIT	18W14	430371573501S1	Active	14-20-603-353	SW	SW	18	41S	24E	0810FSL	0600FWL
RATHERFORD UNIT	18W21	430371641801S1	Active	14-20-603-353	NE	NW	18	41S	24E	660FNL	1882FWL
RATHERFORD UNIT	18W23	430373024400S1	Shut-in	14-20-603-353	NE	SW	18	41S	24E	2385FSL	2040FWL
RATHERFORD UNIT	18W32	430371573601S1	Active	14-20-603-353	SW	NE	18	41S	24E	2140FNL	1830FEL
RATHERFORD UNIT	18W34	430371573701S1	Active	14-20-603-353	SW	SE	18	41S	24E	780FSL	1860FEL
RATHERFORD UNIT	18W41	430371573800S1	TA'd	14-20-603-353	NE	NE	18	41S	24E	0660FNL	0660FEL
RATHERFORD UNIT	19-12	430371573901S1	Active	14-20-603-353	SW	NW	19	41S	24E	1980FNL	0600FWL
RATHERFORD UNIT	19-32	430371574301S1	Active	14-20-603-353	SW	NE	19	41S	24E	2717FNL	2802FEL
RATHERFORD UNIT	19-34	430371574401S1	Active	14-20-603-353	SW	SE	19	41S	24E	0660FSL	1980FEL
RATHERFORD UNIT	19W21	430371574100S1	Shut-in	14-20-603-353	NE	NW	19	41S	24E	0660FNL	1860FWL
RATHERFORD UNIT	19W23	430371574200S1	Shut-in	14-20-603-353	NE	SW	19	41S	24E	2080FSL	1860FWL
RATHERFORD UNIT	19W43	430371642000S1	Shut-in	14-20-603-353	NE	SE	19	41S	24E	1980FSL	0760FEL
RATHERFORD UNIT	20-12	430371574601S1	Active	14-20-603-353	SW	NW	20	41S	24E	0709FNL	0748FEL
RATHERFORD UNIT	20-14	430371574701S1	Active	14-20-603-353	SW	SW	20	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	20-32	430371574901S1	Active	14-20-603-353	SW	NE	20	41S	24E	0037FNL	0035FWL
RATHERFORD UNIT	20-34	430371575001S1	Active	14-20-603-353	SW	SE	20	41S	24E	0774FNL	0617FWL
RATHERFORD UNIT	20-67	430373159000S1	Active	14-20-603-353	NE	SW	20	41S	24E	2629FSL	1412FWL
RATHERFORD UNIT	20W21	430371642300S1	Active	14-20-603-353	NE	NW	20	41S	24E	0660FNL	1880FWL
RATHERFORD UNIT	20W23	430371574800S1	Active	14-20-603-353	NW	SW	20	41S	24E	2080FSL	2120FWL
RATHERFORD UNIT	20W41	430371575100S1	Active	14-20-603-353	NE	NE	20	41S	24E	0660FNL	0660FEL
RATHERFORD UNIT	20W43	430371642400S1	TA'd	14-20-603-353	NE	SE	20	41S	24E	2070FSL	0810FEL
RATHERFORD UNIT	16W12	430371572000S1	Active	14-20-603-355	SW	NW	16	41S	24E	1880FNL	0660FWL

**GREATER ANETH FIELD UIC WELL LIST**  
**Ratherford lease, San Juan County, Utah**

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
RATHERFORD UNIT	16W14	430371572100S1	Shut-in	14-20-603-355	SW	SW	16	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	16W21	430371641400S1	Active	14-20-603-355	NE	NW	16	41S	24E	0660FNL	1880FWL
RATHERFORD UNIT	16W23	430371572201S1	Active	14-20-603-355	NE	SW	16	41S	24E	1980FSL	1980FWL
RATHERFORD UNIT	16W43	430371641501S1	Active	14-20-603-355	NE	SE	16	41S	24E	2140FSL	0820FEL
RATHERFORD UNIT	21-14	430371575301S1	Active	14-20-603-355	SW	SW	21	41S	24E	0660FSL	0460FWL
RATHERFORD UNIT	21-67	430373175301S1	Active	14-20-603-355	NE	SW	21	41S	24E	2560FSL	1325FWL
RATHERFORD UNIT	21W21	430371642501S1	Active	14-20-603-355	NE	NW	21	41S	24E	0660FNL	2030FWL
RATHERFORD UNIT	6W14	430371598400S1	Active	14-20-603-368	NE	SE	6	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	7W12	430371598500S1	Active	14-20-603-368	NE	SE	7	41S	24E	2140FNL	0585FWL
RATHERFORD UNIT	7W14	430371598600S1	Active	14-20-603-368	NE	SE	7	41S	24E	1065FSL	0660FWL
RATHERFORD UNIT	7W21	430371639400S1	Active	14-20-603-368	NE	NW	7	41S	24E	0710FNL	1820FWL
RATHERFORD UNIT	7W34	430371598900S1	Active	14-20-603-368	SW	SE	7	41S	24E	0710FSL	2003FEL
RATHERFORD UNIT	7W43	430371639500S1	Active	14-20-603-368	NE	SE	7	41S	24E	2110FSL	0660FEL
RATHERFORD UNIT	8W14	430371599200S1	Active	14-20-603-368	SW	NE	8	41S	24E	0745FSL	0575FWL
RATHERFORD UNIT	10W43	430371640300S1	TA'd	14-20-603-4037	NE	SE	10	41S	24E	1980FSL	0550FEL
RATHERFORD UNIT	29-12	430371533701S1	Active	14-20-603-407	SW	NW	29	41S	24E	2870FNL	1422FWL
RATHERFORD UNIT	29-32	430371533901S1	Active	14-20-603-407	SW	NE	29	41S	24E	0694FNL	0685FWL
RATHERFORD UNIT	29W21	430371643200S1	Active	14-20-603-407	NE	NW	29	41S	24E	0667FNL	2122FWL
RATHERFORD UNIT	29W41	430371643300S1	Active	14-20-603-407	NE	NE	29	41S	24E	0557FNL	0591FEL
RATHERFORD UNIT	29W43	430371643400S1	Shut-in	14-20-603-407	NE	SE	29	41S	24E	1980FSL	0660FEL
RATHERFORD UNIT	30W41	430371534300S1	Shut-in	14-20-603-407	NE	NE	30	41S	24E	0660FNL	0660FEL
RATHERFORD UNIT	28-12	430371533601S1	Active	14-20-603-409	SW	SE	28	41S	24E	2121FNL	0623FWL
RATHERFORD UNIT	28W21	430371643100S1	Shut-in	14-20-603-409	NE	NW	28	41S	24E	0660FNL	2022FWL
RATHERFORD UNIT	9W23	430371639800S1	Active	14-20-603-5046	NW	SE	9	41S	24E	1980FSL	1980FWL

60 Resolute  
0 Sec 20-45-24E  
14-20-603-395  
430373 590



Graphic Corbank  
8-20-2014  
CHART NO. MO MP-2000-1H  
Wichita, MO  
WATER-TANKING-TOWER  
TAKEN OFF  
12:18 P.M.  
24 20-67  
REMARKS  
1 Line & 1 minute

Witnessed by  
Mark & Jones  
430373  
590

Resolute W/T  
1000 For  
15 4400 ft 5'



Resolute  
0 Sec 20-415-24E  
14-20-603-353

4303731590

Graphic Controls  
8-20-2014

CHART NO. MC MP-2000-1H  
Welleschack  
METER Birmingham run

Hypack

CHART PUT ON  
12:10 P.M.  
24-20-07

TAKEN OFF  
12:15 P.M.

LOCATION  
REMARKS  
1 Line = 1 minute

Witnessed by  
Mark & Jones  
4806m  
8/20/14

Resolute W/T

15 minutes