

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

RECEIVED
MAY 16 1986

DIVISION OF
OIL, GAS & MINING

Attn: R. J. Firth
Associate Director

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

**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
300 W. Arrington Suite 200, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
 At surface: 660' FEL & 1980' FSL, Sec. 11 (NE SE)
 At proposed prod. zone

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1980'
 16. NO. OF ACRES IN LEASE 1806.60

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1120'
 19. PROPOSED DEPTH 5450' OSCR

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4472.5 GR

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-246
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribal
 7. UNIT AGREEMENT NAME
SW-I-4192
 8. FARM OR LEASE NAME
Ratherford Unit
 9. WELL NO.
11-43
 10. FIELD AND POOL, OR WILDCAT
 Greater Aneth 365
 11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 11-T41S-R23E
 12. COUNTY OR PARISH 13. STATE
San Juan Utah
 22. APPROX. DATE WORK WILL START*
Upon Approval

RECEIVED
APR 08 1991
DIVISION OF OIL GAS & MINING

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#	1460'	Circulate to Surface
8-3/4"	7"	20#, 23#, 26#	5450'	Desired TOC is 1360'. Final volume will be based on caliper hole volume plus 20%

Phillips Petroleum Company proposes to drill a 5450' 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.

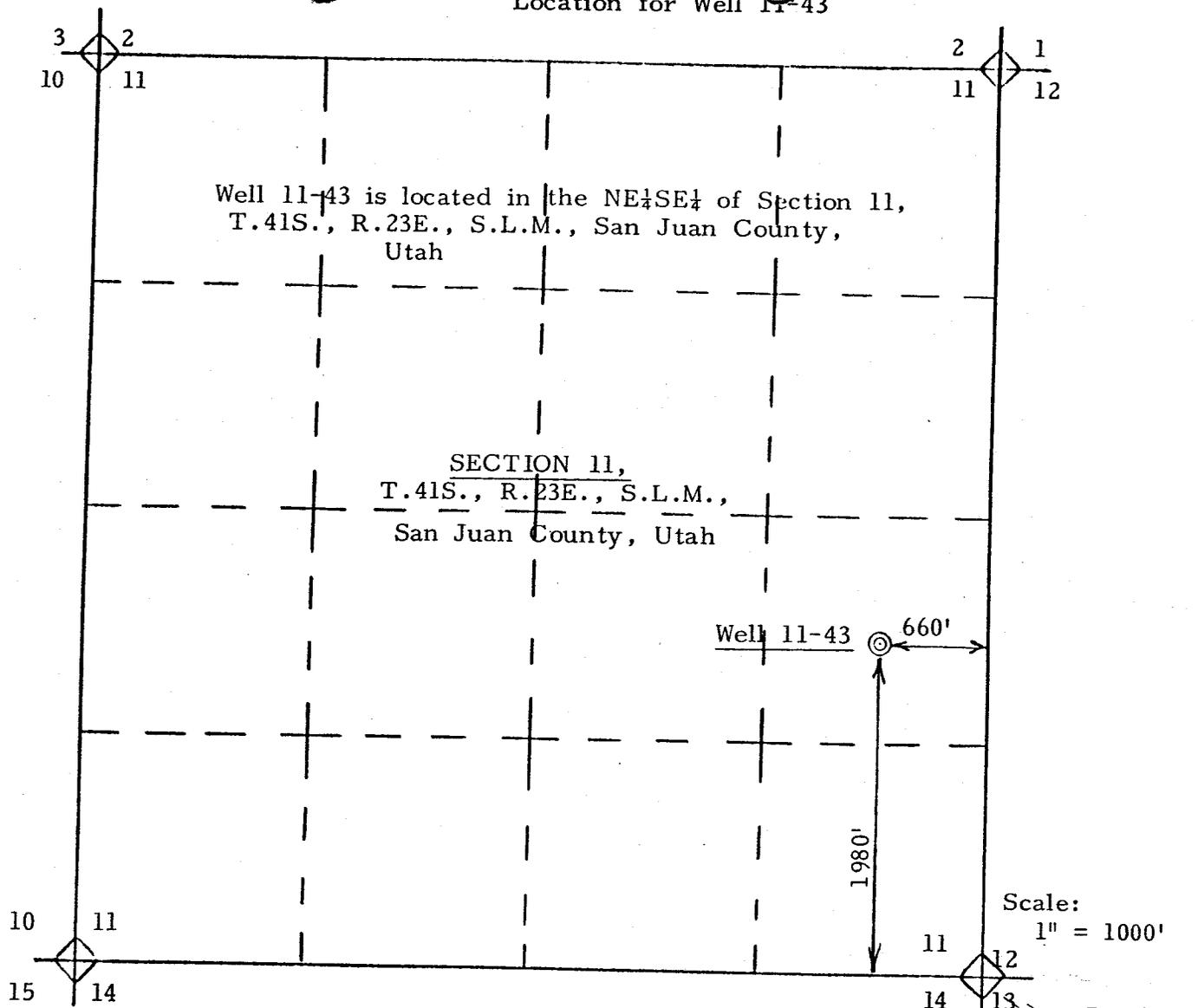
cc: O+6 BLM Farmington - 1 P.J. Konkell - 1 R. Redington - 2 Utah O&GCC - 1 L.E. Hasely
1 R.C. Arnim - 1 Farmington RC

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 R.A. Flesher R.G. Flesher TITLE Area Manager DATE April 2, 1991

(This space for Federal or State office use)
 PERMIT NO. 43-037-311600 APPROVAL DATE _____
 APPROVED BY _____ TITLE _____
 DATE: 4-30-91
 BY: [Signature]
 WELL SPACING: 615-2-3

*See Instructions On Reverse Side



Well 11-43 is located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 11,
T.41S., R.23E., S.L.M., San Juan County,
Utah

SECTION 11,
T.41S., R.23E., S.L.M.,
San Juan County, Utah

Well 11-43

1980'

660'

Scale:
1" = 1000'

This location is located entirely
on sandstone rock.

Water injection
pipeline

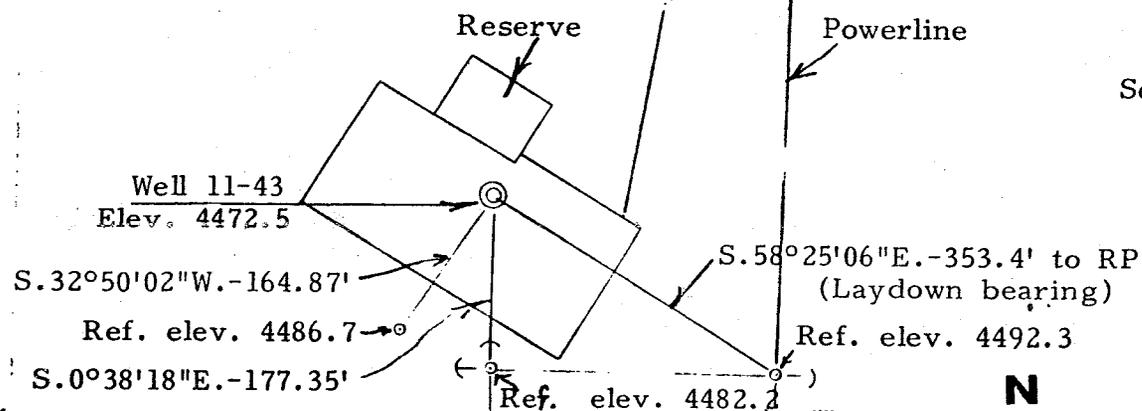
Roadway

C/L Proposed Access

See Sheet 2 for legal
description

Powerline

See Sheet 5 for Basis of
Bearing and Basis of
Elevation.



Scale: 1" = 200'

KNOW ALL MEN BY THESE PRESENTS:

THAT I, FREDRIC P. THOMAS

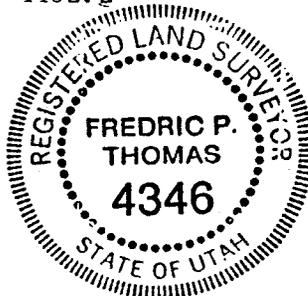
do hereby certify that I prepared this plat from an
actual and accurate survey of the land and that the
same is true and correct to the best of my knowledge
and belief.

Fredric P. Thomas

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

Bearing by
Solar
observation

Utah Reg. No. 4346



THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
365-4496

Sheet 2 of 5

Phillips Petroleum
Location for Well 11-43
Feb. 28, 1991

Legal Description, Proposed Access Easement

An easement for purposes of access in Sections 11 and 12, T.41S., R.23E., S.L.M., San Juan County, Utah, the centerline being more particularly described as follows:

Beginning at a point on the edge of the location for Well 11-43 in Section 11, T.41S., R.23E., S.L.M., San Juan County, Utah, from which point the SE Corner of Section 12, T.41S., R.23E., bears S.71°23'16"E. a distance of 6122.88 ft.;

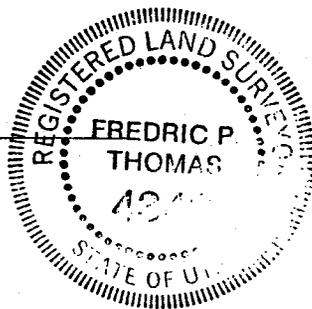
thence, N.11°04'00"E. a distance of 237.60 ft.;

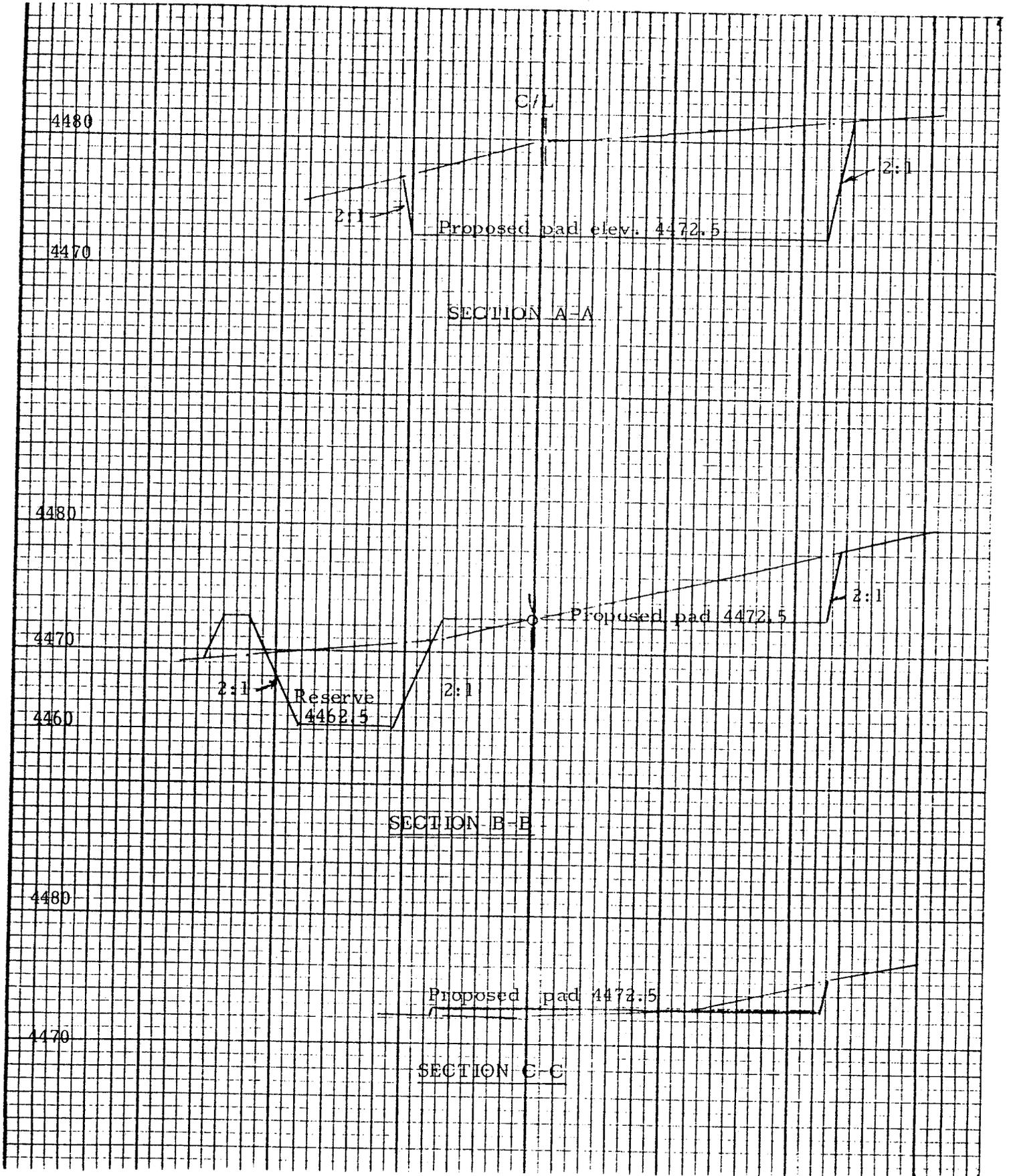
thence, N.32°08'00"E. a distance of 194.30 ft.;

thence, N.49°15'00"E. a distance of 561.90 ft.;

thence, N.60°55'00"E. a distance of 185.80 ft. to a point on an existing roadway, from which point the SE Corner of said Section 12 bears S.60°59'27"E. a distance of 5792.34 ft.


Fredric P. Thomas, PE-LS
Utah Reg. No. 4346

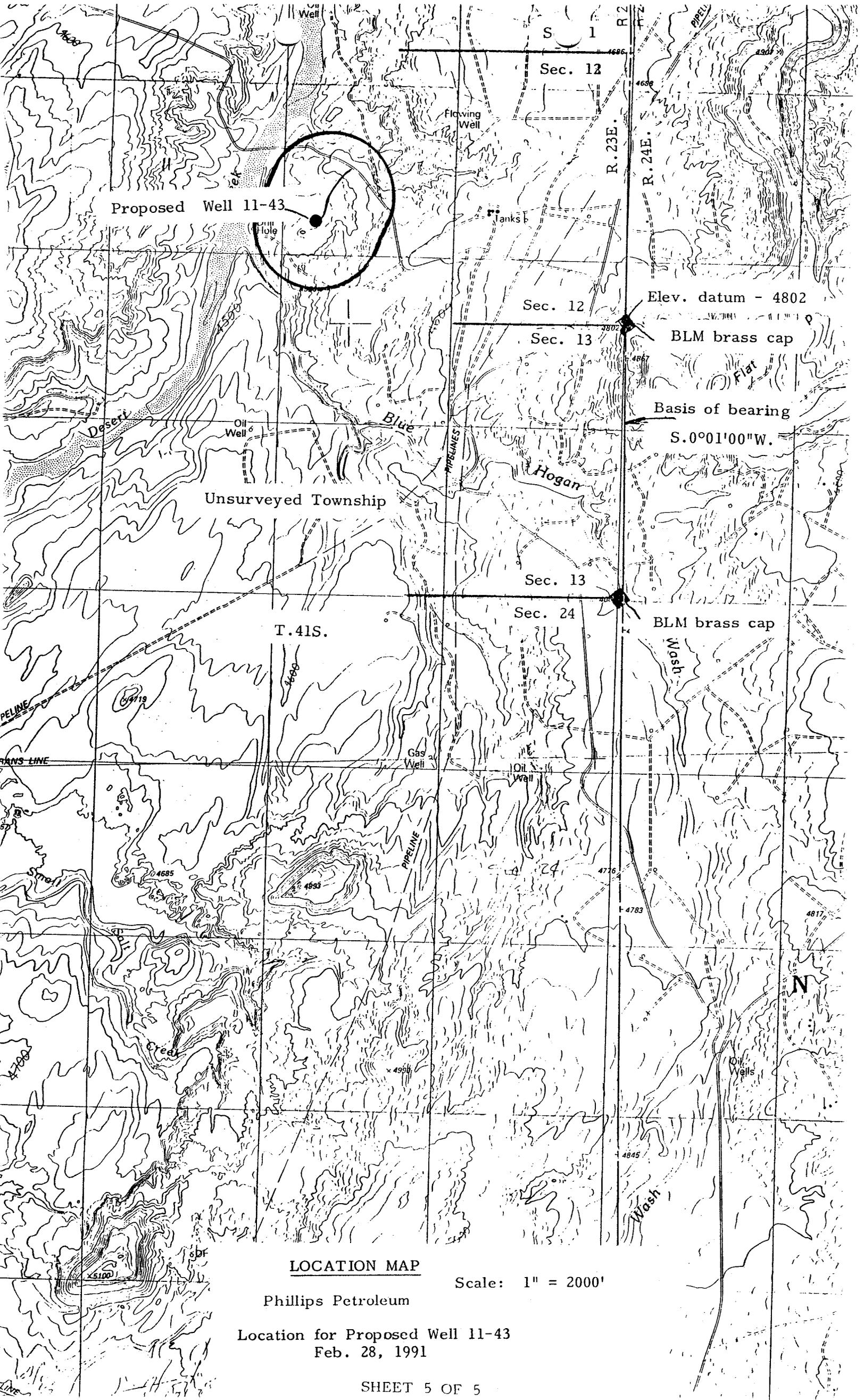




Horizontal scale: 1" = 50'
Vertical scale: 1" = 10'

THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
565-4496



Proposed Well 11-43

Unsurveyed Township

T. 41S.

LOCATION MAP

Scale: 1" = 2000'

Phillips Petroleum

Location for Proposed Well 11-43
Feb. 28, 1991

Phillips Petroleum Company
Rutherford Unit 11-43
NE SE Section 11, T41S, R23E
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 4,472.5 Estimated KB height is 13'.

Shinarump	2,045'	Ismay	5,180'
DeChelly	2,352	Gothic Shale	5,291
Hermosa	4,265	Desert Creek	5,305

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 1,308'. Oil and associated gas are expected in the Ismay and Desert Creek formations. Salt may be encountered beneath the Desert Creek formation.

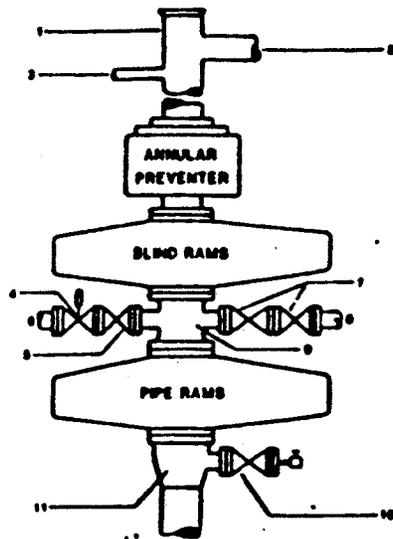
3. **Blowout Prevention Equipment:**

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. Weekly BOP tests will be performed with the rig's pump using water as a test fluid. 30 day and full pressure tests will be performed by a BOP test service.

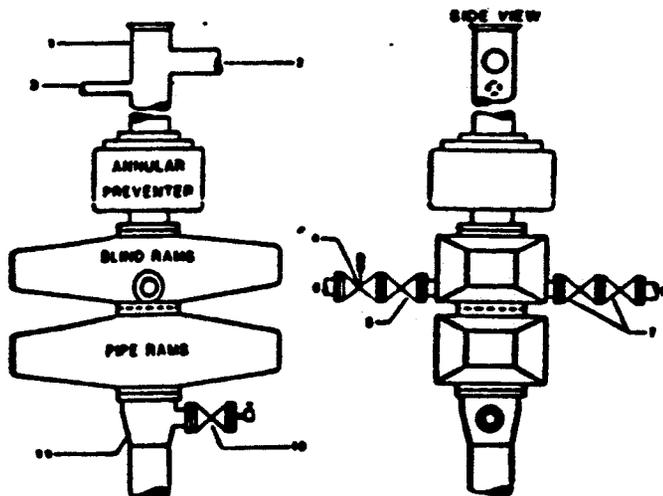
BOP tests will be conducted in accordance with Federal requirements and the Phillips Petroleum Company Well Control Manual. BOP drills will be conducted weekly for each drilling crew. All pressure tests and BOP drills will be witnessed by Phillips' representative and the contractor's senior supervisor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

Casinghead will be an 11" 3M x 9-5/8" thrd head. Tubinghead will be 11" x 7-1/16" 3M.



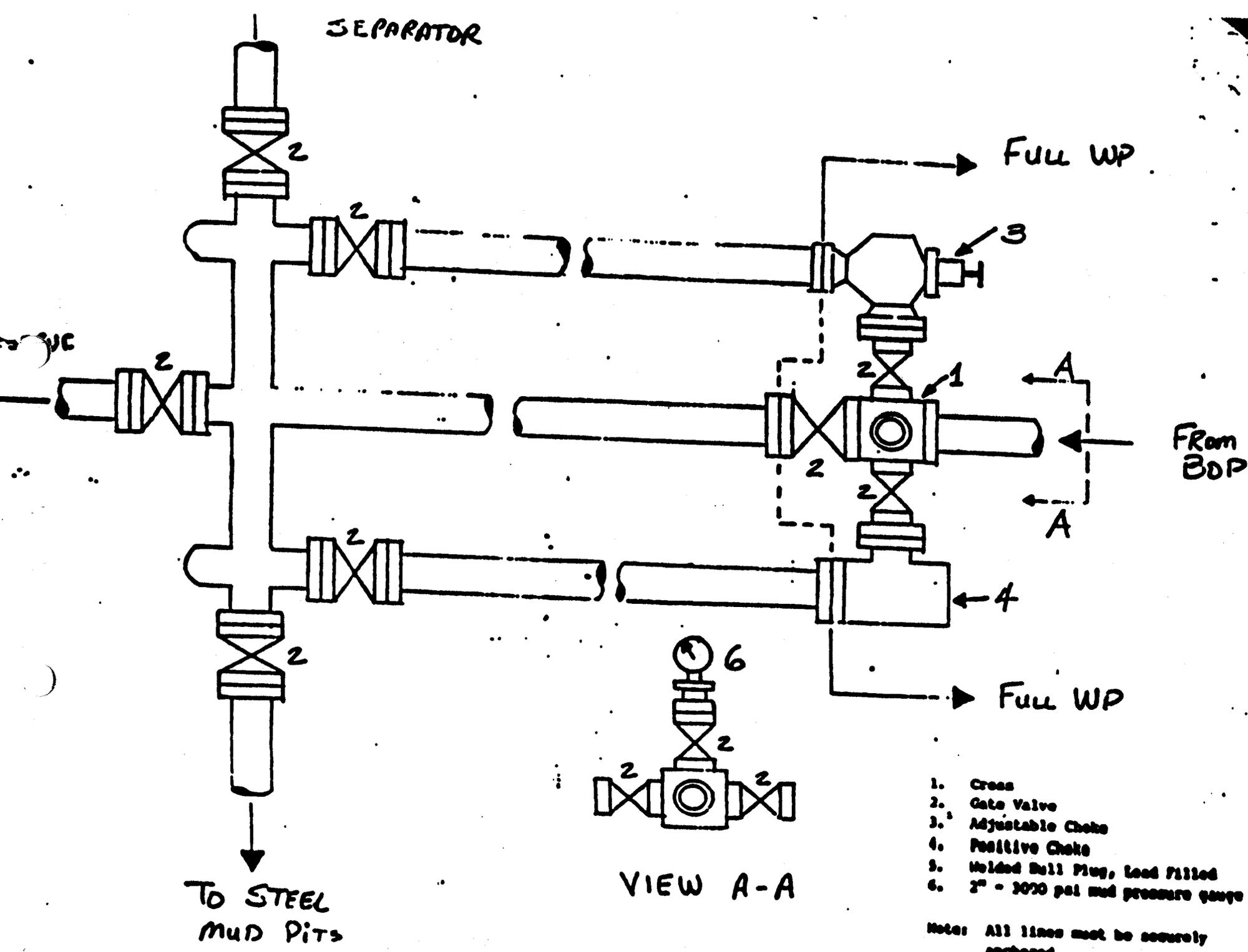
1. BELL NIPPLE
2. FLOW LINE
3. FILL-UP LINE
4. 3" FE PRESSURE OPERATED CHOKE LINE VALVE
5. 3" FE GATE VALVE
6. 3" FE CHOKE LINE TO CHOKE MANFOLD
7. 2" FE GATE VALVES
8. 2" FE KILL LINE
9. DRILLING SPOOL
10. 2" SE OR FE GATE VALVE WITH NEEDLE VALVE
11. CASING HEAD HOUSING

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

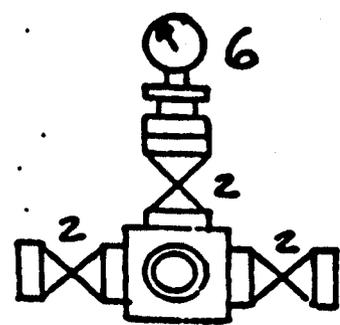
Full WP

SUC

From BOP

Full WP

TO STEEL MUD PITS



VIEW A-A

- 1. Cross
- 2. Gate Valve
- 3. Adjustable Choke
- 4. Positive Choke
- 5. Milled 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 'B' cement.

Surface Casing:

Hole Size : 12-1/4" to 1,460 ft
 Casing : 1,460', 9-5/8", 36 lb/ft, J-55, ST&C
 Cement : Cement casing to surface with 300 sx Light cement followed by 275 sx Class 'B' cement. Possible top job with 100 sx Class 'B' cement.
 Casing Test : Will test to 1,500 psi prior to drilling out.

Production Casing:

Hole Size : 8-3/4" to 5,450 ft TD
 Casing : Surface to 2,300', 7", 20 lb/ft, J-55, ST&C
 2,300' to 4,900', 7", 23 lb/ft, J-55, ST&C
 4,900' to 5,450', 7", 26 lb/ft, J-55, ST&C
 Cement : Cement casing to desired TOC of 1,360' for the lead slurry and of 4,650' 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:

0-1,460':

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

1,460'-2,300':

Type : Fresh water, low solids, non-dispersed polymer
 Mud Weight : 8.6 to 9.9 ppg
 Viscosity : 32 to 38 sec/qt
 Fluid Loss : Below 15 cc/30 min
 pH : 10 to 10.5 using caustic soda

2,300'-5,450':

Type : Fresh water, low solids, non-dispersed polymer
 Mud Weight : 9.9 to 10.5 ppg
 Viscosity : 40 to 45 sec/qt
 Fluid Loss : Below 10 cc/30 min
 pH : 10 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 3,560'.

Sample Program : 30' samples from surface casing to 5,100'.
 10' samples from 5,100' to TD.

Testing Program : Record pressures from pay zones with RFT.

Mud Logging : Mud log from 5,100' to TD.

7. Downhole Conditions:

- Maximum BHP expected is 2,000 psi.
- H₂S is anticipated in the Desert Creek formation. A contingency plan will be utilized.
- Abnormal pressures and temperatures are not anticipated.

8. Other Facets:

- Anticipated spud date is May 10, 1991.
- 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 and the BLM in Farmington.

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

This well is in an existing oil field. Roads currently exist to within 1180 feet of the well site.

The 1180 feet of new access will be flat bladed and ditched with culverts and gravel used where needed.

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 Ratherford Unit Satellite #12 located in the NW SE Sec. 12-T41S-R23E, 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:

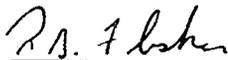
- a. There will be no drilling camp on location. Several mobile housing units will be on location for various personnel. A self contained sewage and graywater system will be provided for these facilities.
- b. No airstrip will be needed.

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. 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. No dwellings are in the proposed drilling area.
12. Other Information: Anticipated drilling time is 15 days, dependent on unknown problems and weather.

13. Operator's Representative and Certification:

R. G. Flesher
Area Manager
Phillips Petroleum Company
300 W. Arrington, Suite 200
Farmington, New Mexico 87401
(505) 599-3401

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.



R. G. Flesher
Area Manager

April 2, 1991

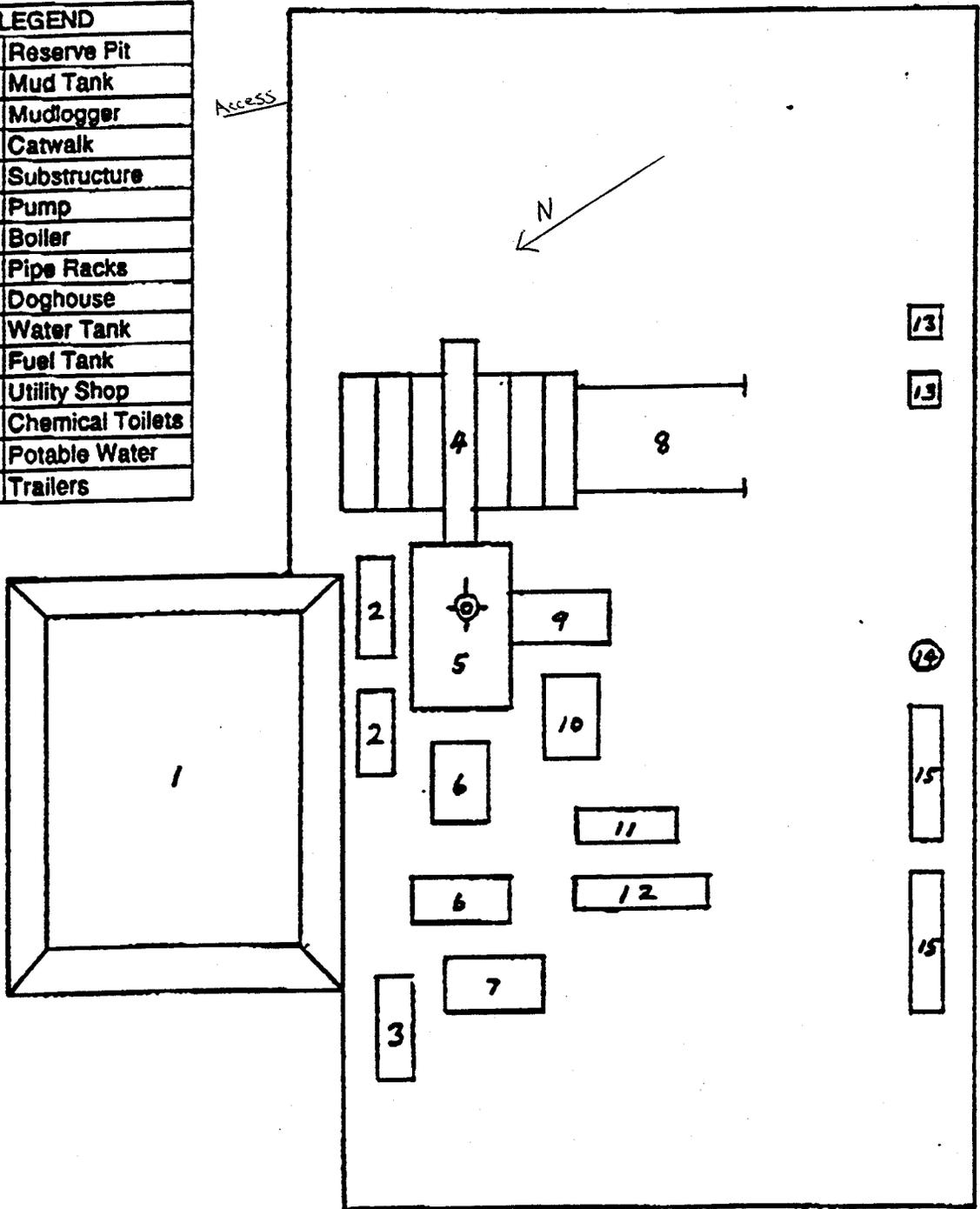
Date

LEH/crr-2/fb
3-18-91

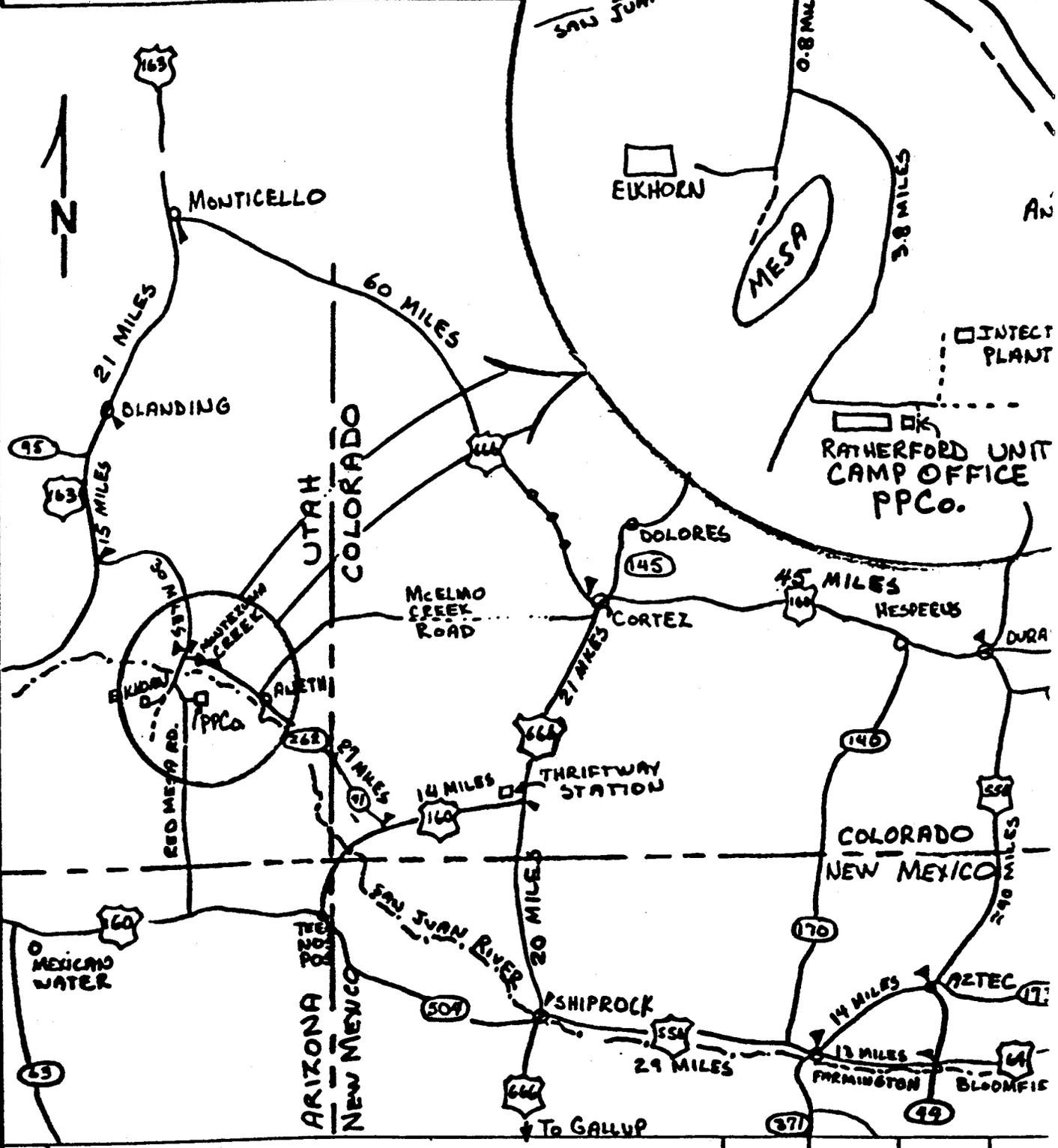
Ratherford Unit 11-43 San Juan County, Utah Location Layout

(Overall size: 235' x 300')

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

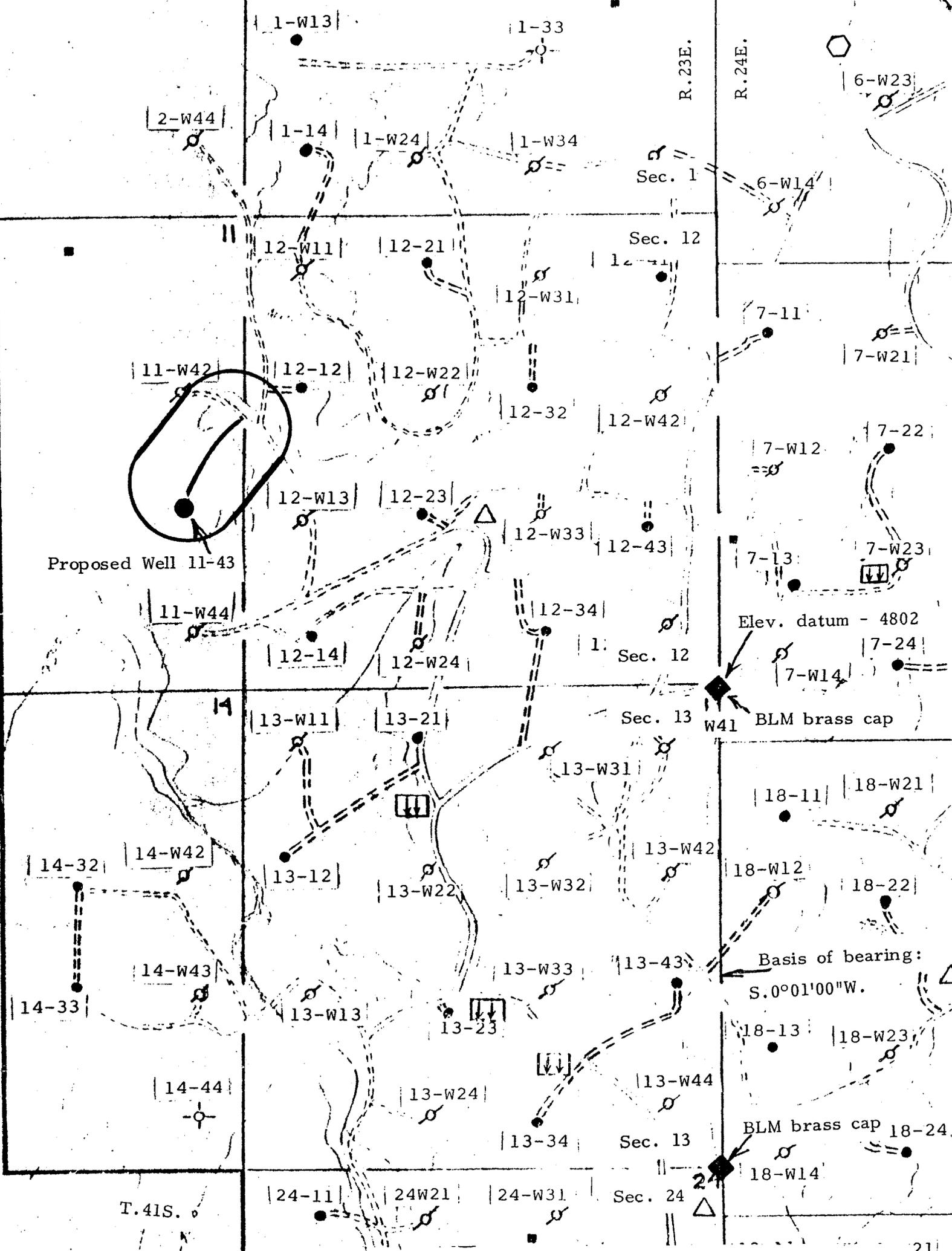


RATHERFORD UNIT OF P - 303-565-9099
 801-661-3434
 CORTAZ DISTRICT OFFICE - 303-565-3426



NO.	REVISION	BY	DATE	CHKD	APPT
FOR BIDS	PHILLIPS PETROLEUM COMPANY		JA NO.	FILE CO	
FOR APPR	BARTLESVILLE, OKLAHOMA		AFE NO.	SCALE	None
FOR CONST	<h1>ROAD MAP</h1> <h2>RATHERFORD UNIT</h2>		DWG NO.		
DRAWN 2/2/90			SH NO.		
CHECKED					
APPD					

Unsurveyed Township



LOCATION MAP

Phillips Petroleum

Location for Proposed Well 11-43
March 22, 1991

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Emergency Notification (Residents)

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Hydrogen Sulfide

Do You Know

Use of SCBA

CONTINGENCY PLAN

Action Plan for Accidental Release of H2S

RATHERFORD UNIT

SAN JUAN COUNTY, UTAH

Well No.	Location
11 - 43	Sec. 11, T41S, R23E
14 - 41	Sec. 14, T41S, R23E
13 - 14	Sec. 13, T41S, R23E
24 - 32	Sec. 24, T41S, R23E
19 - 97	Sec. 19, T41S, R23E
20 - 66	Sec. 20, T41S, R23E
20 - 67	Sec. 20, T41S, R23E
20 - 68	Sec. 20, T41S, R24E

This Contingency Plan was written specifically for:

PHILLIPS PETROLEUM COMPANY

P. O. BOX 1150

CORTEZ, COLORADO 81321

INTRODUCTION

CONTINGENCY & EVACUATION PLAN

PHILLIPS PETROLEUM COMPANY

P. O. BOX 1150

CORTEZ, COLORADO 81321

DIRECTIONS TO LOCATION:

From Cortez, Colorado take US 666 South to intersection of US 160. Take US 160 West 14 miles to intersection State 41. Take State 41 Northwesterly continuing on Utah 262 through Aneth to Montezuma Creek. Red Mesa Road, south from Montezuma Creek bisects the Unit.

PURPOSE OF PLAN:

The purpose of this plan is to safeguard the lives of the public, contract personnel and company personnel in the event of equipment failures or accidental discharges during operations in formations which may contain H₂S, hydrogen sulfide gas.

This Plan has been developed in compliance with Company, Industry, State and Federal standards relating to hydrogen sulfide operations. This Plan establishes working policies which are intended to ensure that employee and public exposure to hydrogen sulfide gas will not exceed safe, acceptable levels.

SECTION I
EMERGENCY LISTINGS

**RATHERFORD UNIT
EMERGENCY PHONE CONTACT LIST**

	<u>HOME PHONE</u>	<u>OFFICE PHONE</u>
DEE, H.P.	(801) 651-3456	(303) 565-9049
DILLON, E.P.	(801) 651-3200	(303) 565-9049
IVEY, E.D.	(303) 565-6233	(303) 565-9049
PARTAIN, K.L.	(801) 651-3448	(303) 565-9049

ENGINEERING

HEUMAN, W.R.	(303) 565-6255	(303) 565-3426
HAMILTON, D.P. CASPER	(307) 234-2834	(307) 237-5963
SCHUMAN, F.G. CASPER	(307) 234-7442	(307) 237-5964

SAFETY

BENOIT, T.J. CASPER	(307) 577-1126	(307) 237-5961
DAVIS, R.R. HOUSTON	(713) 852-6425	(713) 669-2159

ENVIRONMENTAL

HASLEY, L.E. CASPER	(307) 472-0511	(307) 237-5969
---------------------	----------------	----------------

DISTRICT SUPERINTENDENT

ODEN, S.H. CASPER	(307) 473-2340	(307) 237-5960
MEGHINI, M.L. CORTEZ	(303) 565-2470	(303) 565-3426

<u>NAME</u>	<u>LOCATION</u>	<u>OFFICE</u>	<u>HOME</u>
<u>PRODUCTION DIRECTOR (HOUSTON)</u>			
GILL, D.C.	HOUSTON	(713) 669-3519	437-0981
<u>AREA MANAGER (HOUSTON)</u>			
JONES, M.L.	HOUSTON	(713) 669-3762	438-0053
<u>REGION MANAGER (HOUSTON)</u>			
FETTERS, J.K.	HOUSTON	(713) 669-3501	437-0498
<u>DRILLING SUPERINTENDENT (HOUSTON)</u>			
ELMORE, R. J.	HOUSTON	(713) 669-3719	980-6605
<u>EXETER DRILLING</u>			
Operations:			
Gelen Hertzler	Denver	(303) 861-0181	(303) 841-2945
Safety:			
Harry Olds	Denver	(303) 861-0181	(303) 841-2945

EMERGENCY NOTIFICATION CHART
CASPER DISTRICT

REGION OPERATIONS MANAGER
J. K. FEITERS

HOUSTON AREA MANAGER
M. L. JONES

HOUSTON PRODUCTION DIRECTOR
D. C. GILL

CASPER DISTRICT SUPERINTENDENT
S. H. ODEN

CORDEZ SUB-DISTRICT
M.L. MENGHINI

SUPERVISOR

EMPLOYEE



E&P EMERGENCY COMMUNICATION PLAN
BARTLESVILLE NOTIFICATION THRESHOLDS

Criteria for Bartlesville notification:

A fatality of an employee or third party and/or incident involving numerous, serious injuries.

Any major production interruption that would effect the financial contribution to E&P and/or other Corporate Group organizations that E&P supplies criteria feedstocks.

Any incident attracting or expected to attract major media interest.

Major oil spills or other significant environmental incidents.

Major fire at a production/processing/terminaling/transportation facility.

Loss of well control that threatens life and the environment.

Significant breaches of security (i.e., civil disorder, acts of terrorism, etc.)

Any situation that in the judgement of Exploration and Production Regional and Division Managers should be brought to the attention of Corporate Management.

CESU ALERT OUTLINE - E&P GROUP

After E&P Bartlesville Contact has been notified as specified in the E&P Emergency Communication Plan:

CALL: (800) 447-6166 (within U.S.)
(918) 661-7888 (International)

Your message will be recorded.

Give:

1. Your Name and Title.
2. Your telephone number (including country code, if international)
3. Current date and time
4. Location of incident
5. Time of incident
6. Dictate a brief message describing the situation.*

(*Sample: Explosion and fire at facility. Two workers taken to hospital, others may be missing. Fire not yet under control.)

Do not use the CESU Notification Line for follow-up messages.

Instead, call the CESU Center (16 PB): (918) 661-1238.

**EMERGENCY TELEPHONE NUMBERS
CORTEZ DISTRICT/RATHERFORD UNIT**

PHYSICIAN	MONTEZUMA CREEK CLINIC	801	651-3291
	BLANDING CLINIC	801	678-2254
	CORTEZ MEDICAL CLINIC	303	565-8556
EMT	SAN JUAN CITY, DISPATCH	800	332-1911*
HOSPITALS	SOUTHWEST MEMORIAL (CORTEZ)	303	565-0301
	SAN JUAN HOSPITAL (MONT)	801	587-2116
AMBULANCE FIRE DEPARTMENT POLICE	SAN JUAN COUNTY DISPATCH	800	332-1911*
NAVAJO POLICE	SHIPROCK, NEW MEXICO	505	368-4383
VETERINARY	BLUE MOUNTAIN VET (BLANDING)	801	678-2414

* CALLS FROM UTAH ONLY

DISCHARGE NOTIFICATION DIRECTORY

UTAH

- I. Federal: (a) 0-10 Bbl pollutant, fully contained non-sensitive area; no notification required.
- (b) 10-100 Bbl pollutant, fully contained non-sensitive area; or no more than 100 Bbl pollutant fully contained: notify BLM in writing (use form) within 15 days.
- (c) Any event in a sensitive area or 100 Bbl or more of a pollutant (not contained) notify;
(1) BLM within 24 hours, written notice within 15 days.
(2) Notify the surface Management Agency as a courtesy. (f.ex. - USFS)
- II. Indian: Same as above with immediate notification to Navajo Tribal Land Administration on type (c) events; carbon copy of all BLM notices of events occurring on the reservation.

NOTE: On any discharge into a sensitive area, notification of the EPA may be necessary. Use discretion.

Pollutant: Any well produced substance (oil or produced water), any manufactured chemical; all hazardous waste discharges are spills.

Ratherford Unit:

BLM
1235 LaPlata Highway
Farmington, NM 87401
(505) 327-5344

BIA Shiprock Agency
P. O. Box 966
Attn: Ed McGabe
(505) 368-5109/5705

Navajo Tribal Land Administration
P. O. Box 410
Montezuma Creek, UT 84534
(801) 651-3655

All Other Leases in Utah:

BLM
2000 Administration Building
1745 West 1700 South
Salt Lake City, UT 84104
(801) 524-4590

Environmental Protection Agency: (303) 293-1788

Emmett Schmitz: (303) 293-1436

AREA SPILL NOTIFICATION DIRECTORY

UTAH

SPILLS

AGENCIES TO BE NOTIFIED

ALL SPILLS

Environmental Protection Agency
(303) 293-1788 (24 Hours)
Denver, Colorado

Department of Health/Division of
Environmental Health Bureau of
Drinking Water
(801) 538-5346
Salt Lake City, Utah

Division of Oil, Gas & Mining
(801) 538-5346
Salt Lake City, Utah

Bureau Of Land Management
1235 LaPlata Highway
Farmington, New Mexico 87401
(505) 327-5344

Bureau of Land Management
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104
(801) 524-4590

IMMEDIATE NOTICE WITHIN 18 HOURS
SUBSEQUENT NOTICE WITHIN 15 DAYS IN
TRIPLICATE

Spills Endangering
Fish and Wildlife

Utah Division of Wildlife Resources
(801) 328-328-5081 (office)
Salt Lake City, Utah

Spills Requiring Burning

Department of Health/Div. of Env. Health
Bureau of Air Quality
(801) 538-6700
Salt Lake City, Utah

Spills creating Traffic
Hazards or Requiring
Movement of Heavy
Equipment on Highways

Utah State Highway Patrol
(801) 965-4089 (24 Hours)
Salt Lake City, Utah

RADIO

KISZ - "KISS 98 FM P.O. Box 740, Cortez, CO. (303) 565-1212
KSUT - 89.5 FM P. O. Box 737, Ignacio, CO. (303) 247-4900
KRTZ - 98.7 FM 200 W. Main, Cortez, CO. (303) 565-6565
KNDN - Navajo Radio 1515 W. Main, Farmington, NM. (505) 325-1996

TELEVISION

Cortez Cable - Albuquerque
Denver

Montezuma Creek Area - Antenna - KSL, Salt Lake City
KUTV, Salt Lake City
KTUX, Salt Lake City

LOCATION	CONTACT	TITLE	OFFICE NUMBER	HOME NUMBER	MOBILE NUMBER	OTHER
Casper, WY	S. H. Oden	Casper Dist. Supt.	307: 237-5960	307: 473-2340	307: 265-4011	
	B. Reed	Field Supv.	707: 374-5499		307: 481-6432	
	E. D. Gamble - Roamer	NE WY & SD O&G Prod. Supv.		307: 464-1258	307: 686-8756	
	W. W. Bachus	W WY & MO O&G Prod Supv.	307: 867-2378	307: 787-6795	307: 856-8020	307: 856-8066
	J. Weaver	UT O&G Gas Prod. Sr. Supv.	307: 782-6139	307: 782-6954	307: 382-0103	
Cortez, CO	M. L. Menghini	Cortez Supt.	307: 265-8177	307: 358-4145		Recorder after 5
	E. D. Dillon	O&G Prod. Sr. Supv.	303: 565-3426	303-565-2470		801: 651-3434
	E. D. Ivey	O&G Prod. Supv.	303: 565-9049	801: 651-3200		801: 651-3434
	K. L. Partain	O&G Prod. Supv.	303: 565-9049	303: 565-6233		801: 651-3434
	H. P. Dee (Alt)	Utility Coord.	303: 565-9049	801: 651-3448		801: 651-3434
	W. R. Heuman (Alt)	Prod. Engr.	303: 565-3426	801: 651-3456		801: 651-3434
Houston, TX	OTHER:					
	Materials:					
	A. L. Sorrels	Region Matls. Supt.	713: 669-3555	713: 980-2181		620-3018
	R. L. Standridge	Matls. Specialist	713: 669-3712	713: 499-5386		924-8414
	T. M. Norrell	Matls. Rep.	713: 669-3713	713: 980-9267		663-9804
S. Tarner	Matls. Rep.	713: 669-2932	713: 261-4817		620-8003	

EMERGENCY CONTACT PLAN MEMBERS

GREAT PLAINS REGION

J. S. Yoss - Borger
G. R. Glinsmann - Borger

PERMIAN BASIN REGION

K. Am - Odessa
P. D. Appel - Odessa

UNITED KINGDOM DIVISION

K. L. Hedrick - Woking, England
S. A. Siemens - Woking, England
P. M. Spaven - Aberdeen, Scotland
C. J. Freeman - Bacton

DRILLING & PRODUCTION DIVISION

J. F. Griggs - 249-B GB
S. J. Reynolds - 1390-G POB

E&P/G&GL ADMINISTRATION

U. O. Cox - 1100-A POB

TREASURY

J. J. Mulva - 3 A4 PB

ENVIRONMENTAL SERVICES

B. Price-Thurman - 13 A4 PB
V. A. Walker - 12 B4 PB
D. F. Hunter - 12 B1 PB

NATURAL GAS COMPANY

M. J. Panatier - 800-A POB
C. B. Friley - 800-N POB

ASSOCIATE GENERAL COUNSEL

J. L. Williford - 1266-A
D. S. Zimmerman - 1260 AB

CANADA REGION

A. A. Hochstein - Calgary, Canada
E. Wiszneaukas - Calgary, Canada

GULF COAST/WESTERN REGION

J. K. Fetters - Houston
M. L. Jones - Houston
R. Wiborg - Lafayette
B. L. Jones - El Dorado

NORWAY DIVISION

M. H. McConnell - Stavanger, Norway
J. A. Landrum - Stavanger, Norway
L. A. Takla - Stavanger, Norway
D. L. Reese - Stavanger, Norway

INTERNATIONAL DIVISION

T. L. Sandridge - 1570 A1 POB
V. D. Stiggins - 1400-B POB
G. B. Heckler - 1490-C POB
J. R. Hennon - 1490-C POB
V. K. Jindal - 1490-K POB
G. W. Berk - Alexandria, Egypt
C. M. Tsang - Guanzhou, China

CORPORATE AFFAIRS

D. B. Droege - 16 D3 PB
J. D. Smith - 16 A3 PB
G. Minter - 16 A2 PB

SAFETY & LOSS PREVENTION

L. W. Dowden - 14 A4 PB
R. V. Burro - 14 A2 PB

P66CO

M. E. Dabbar - 874-B AB
D. J. Pratt - 886 AB
W. A. Wyman - 880 AB
W. E. Anderson - 1025-C AB
B. M. Wiseman - 1125-A AB

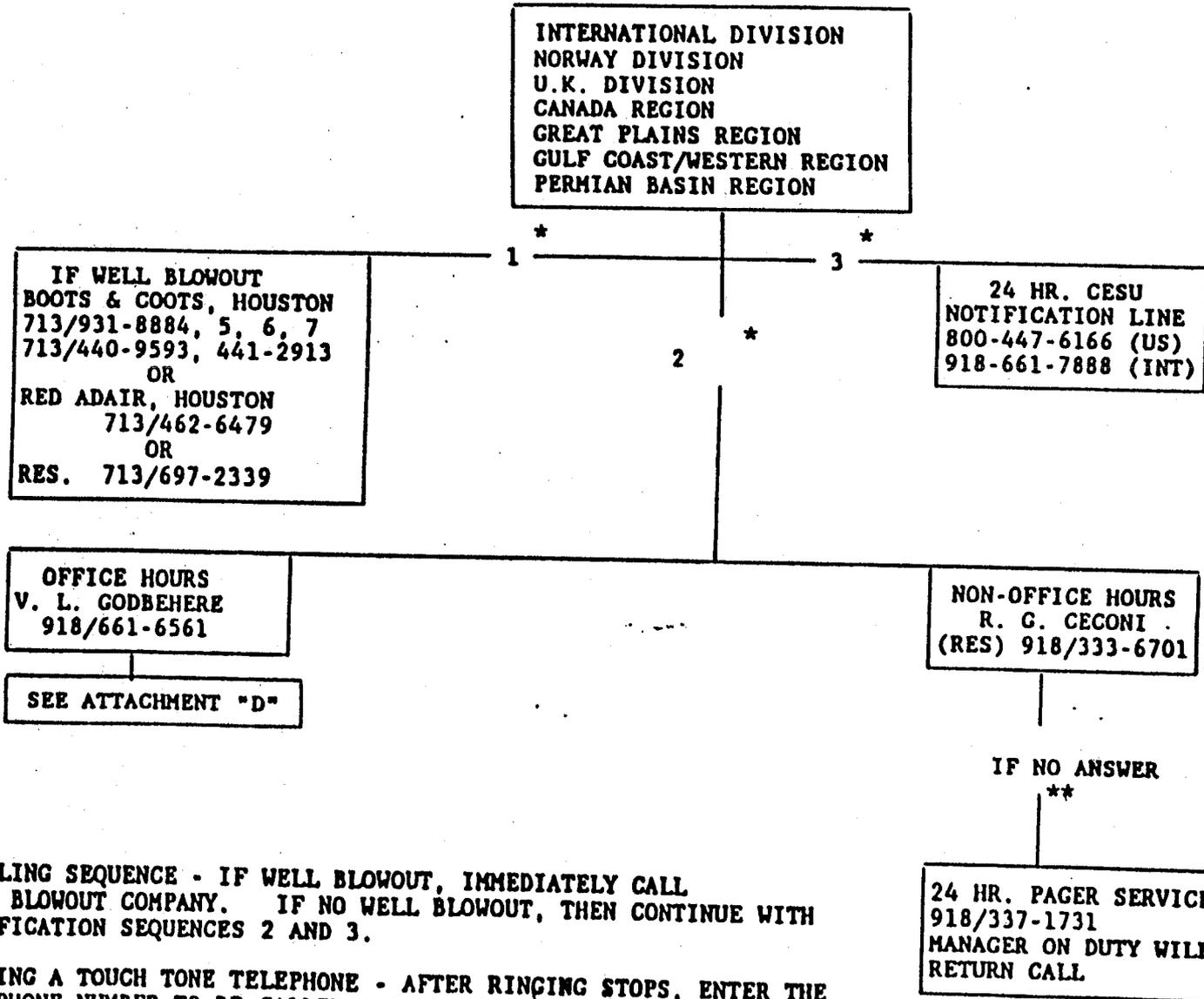
PROPERTY TAX, REAL ESTATE & CLAIMS

T. L. Mason - 546 PBA
J. A. Houston - 536 PBA
R. L. Schmalzer - 542 PBA

MEDICAL

J. V. LeBlanc, M.D. - FPTC MEDCT
P. K. Dobbins, M.D. - FPTC MEDCT

**EMERGENCY COMMUNICATION PLAN
BARTLESVILLE NOTIFICATION PROCEDURE**



* CALLING SEQUENCE - IF WELL BLOWOUT, IMMEDIATELY CALL WELL BLOWOUT COMPANY. IF NO WELL BLOWOUT, THEN CONTINUE WITH NOTIFICATION SEQUENCES 2 AND 3.

** USING A TOUCH TONE TELEPHONE - AFTER RINGING STOPS, ENTER THE TELEPHONE NUMBER TO BE CALLED. INCLUDE AREA CODE/COUNTRY CODE AS APPLICABLE, THEN HANG UP RECEIVER. MANAGER ON DUTY WILL THEN RETURN CALL WITHIN A FEW MINUTES.

EMERGENCY COMMUNICATION PLAN
BARTLESVILLE STAFF CONTACTS
OFFICE HOURS NOTIFICATION

V. L. GODBEHERE
OR
SECRETARY RECEIVING CALL

CALL IN SEQUENCE UNTIL
ONE IS REACHED

ALL CALLS
R. G. CECONI
STA. 3039

1

R. G. CECONI'S
DESIGNATED ALTERNATE

2

IF U.K. OR NORWAY
S. J. REYNOLDS
STA. 1105

3

IF NA - E&P
J. L. WHITMIRE
STA. 4273

3

IF INTERNATIONAL
T. L. SANDRIDGE
STA. 3187

3

ALL CALLS
S. J. REYNOLDS
STA. 1105

4

ALL CALLS
J. F. GRIGGS
STA. 0313

5

ALL CALLS
E&P MANAGER ON
PAGER DUTY 337-1731

6

DRILLING & PRODUCTION DIV
 R. G. CECONI
 661-3039, RES 333-6701
 OR
 V. L. GODREHERE
 661-6561
 OR
 PAGER, 337-1731
 REFER TO ATTACHMENT "C"

1°

2°

SALES VICE PRESIDENT
 W. W. ALLEN
 STA. 4467
 RES. 333-9117

CORPORATE AFFAIRS
 D. B. DROEGE
 STA. 6422, RES 333-5298
 OR
 J. D. SMITH
 STA. 4982, RES 333-3870
 OR
 GEORGE HINTER
 STA. 4987, RES 333-1416

EAP GAGL ADMINISTRATION
 U. O. COX
 STA. 3703, RES 335-3595

SAFETY
 L.W. DOLDEN
 STA. 8632, RES 335-2554
 R. V. BURRO
 STA. 8862, RES 333-9634

IF SPILL OR POLLUTION
 B. PRICE-THURMAN
 STA. 4774, RES 337-0440
 V. A. WALKER
 STA. 6026, RES 333-8705
 D. F. HUNTER
 STA. 8215, RES 335-3143
 IF BLOWOUT
 S. J. REYNOLDS
 STA. 1105, RES 492-2405
 J. F. GRIGGS
 STA. 0313, RES 337-8091

IF MAJOR INTERRUPTION OF SUPPLY
 MGL
 W. E. ANDERSON
 STA. 4520, RES 333-9058
 OR
 B. M. WISEMAN
 STA. 4530, RES 333-1652

GAS
 M. J. PAMATIER
 STA. 8525, RES 333-6158
 OR
 C. B. FRILEY
 STA. 8349, RES 333-8942

REFER TO CESU PLAN

APPROPRIATE VICE PRESIDENT OR MANAGER

TREASURY
 J. J. MULVA
 STA. 5368, RES 333-8486
 OR
 D. W. CASSELBERRY
 STA. 6353, RES 335-3594

MEDICAL DIVISION
 J. V. LEBLANC, M.D.
 STA. 4845, RES 333-0136
 OR
 P. K. DOBBINS, M.D.
 STA 3864, RES 337-0641
 OR
 A. P. BELMONT, M.D.
 STA 0879, RES 336-5600

ASSOC GENERAL COUNSEL
 MAJOR ACCIDENTS
 D. S. ZIMMERMAN
 STA. 4535, RES 333-4092
 OR
 J. L. WILLIFORD
 STA. 3762, RES 333-8696

PROPERTY TAX, REAL ESTATE & CLAIMS
 T. L. MASON
 STA. 5185, RES 333-4842
 OR
 J. A. HOUSTON
 STA 5157, RES 335-1077
 OR
 R. L. SCHMALZER
 STA. 5600, RES 333-2232

NORTH AMERICA
 J. L. WHITMIRE
 STA. 4273
 RES 335-2195
 OR
 INTERNATIONAL
 T. L. SANDRIDGE
 STA. 3187
 RES. 333-6700
 OR
 U.K./NORWAY
 R. G. CECONI
 STA. 3039
 RES. 333-6701

CRUDE
 M. E. DABBAR
 STA. 4220, RES 333-4463
 OR
 (FOREIGN/WEST COAST-U.S.)
 D. J. PRATT
 STA. 4151, RES 333-9494
 OR
 (DOMESTIC-EXCLUDING W. COAST)
 W. A. MYMAN
 STA. 4141, RES 333-4116

• CALLING SEQUENCE

**E&P MANAGER ON PAGER DUTY
ROSTER AND RESPONSIBILITIES**

The pager duty roster will consist of the following managers:

1. R. V. Burro
2. R. G. Ceconi
3. J. F. Griggs
4. R. K. Gupta
5. S. J. Reynolds

Each manager will be responsible for:

- Receiving calls on the pager 24 hours a day, on a one week rotation basis.
- Staying within the range of the pager service as indicated by the shaded area on the map on the following page.
- Implementing the Emergency Communications Plan as outlined on the proceeding pages.

The pager scheduled will be maintained by R. G. Ceconi. The transfer of the pager will normally take place on Mondays at 8 a.m.

EMERGENCY CONTACT PHONE LIST

<u>NAME</u>	<u>LOCATION</u>	<u>OFFICE NUMBER</u>	<u>HOME NUMBER</u>
NORTH AMERICA E&P			
Whitmire, J. L.	Bartlesville	(918) 661-4273	(918) 335-2195
Fetters, J. K.	Houston	(713) 669-3501	(713) 438-0498
Jones, M. L.	Houston	(713) 669-3762	(713) 438-0052
Wiborg, R.	Lafayette	(318) 261-0285	(318) 988-4717
Jones, B. L.	El Dorado	(501) 862-4953	(501) 862-7465
Am, K.	Odessa	(915) 367-1324	(915) 362-8661
Appel, P. D.	Odessa	(915) 367-1204	(915) 699-6508
Grillot, L. R.	Calgary	(403) 298-1266	(403) TBA
Wiszneaukas, E.	Calgary	(403) 298-1266	(403) 259-5398
Yoss, J. S.	Borger	(806) 283-3430	(806) 274-3251
Glinmann, G. R.	Borger	(806) 283-3480	(806) 273-6269
BARTLESVILLE E&P			
Allen, W. W.		(918) 661-4467	(918) 333-9117
Reynolds, S. J.		(918) 661-1105	(918) 492-2405
Cecon, R. G.		(918) 661-3039	(918) 333-6701
Griggs, J. F.		(918) 661-0313	(918) 337-8091
Cox, U. O.		(918) 661-3703	(918) 335-3595
Gupta, R. K.		(918) 661-4291	(918) 333-0979

EMERGENCY CONTACT PHONE LIST

NAME	LOCATION	OFFICE NUMBER	HOME NUMBER
P66Co			
Anderson, W. E.		(918) 661-4520	(918) 333-9058
Dabbar, M. E.		(918) 661-4220	(918) 333-4463
Pratt, D. J.		(918) 661-4151	(918) 333-9494
Wiseman, B. M.		(918) 661-4530	(918) 333-1652
Wyman, W. A.		(918) 661-4141	(918) 333-4116
P66NGC			
Friley, C. B.		(918) 661-8349	(918) 333-8942
Panatier, M. J.		(918) 661-8525	(918) 333-6158
ASSOC GENERAL COUNSEL			
Williford, J. L.		(918) 661-3762	(918) 333-8696
Zimmerman, D. S.		(918) 661-4535	(918) 333-4092
CORPORATE AFFAIRS			
Droege, D. B.		(918) 661-6422	(918) 333-5298
Minter, G.		(918) 661-4987	(918) 333-1416
Smith, J. D.		(918) 661-4982	(918) 333-3870
ENVIRONMENTAL SERVICES			
Price-Thurman, B.		(918) 661-4774	(918) 337-0440
Hunter, D. F.		(918) 661-8215	(918) 335-3143
Walker, V. A.		(918) 661-6026	(918) 333-8705
SAFETY & LOSS PREVENTION			
Dowden, L. W.		(918) 661-8632	(918) 335-2554
Burro, R. V.		(918) 661-8862	(918) 333-9634
MEDICAL DIVISION			
Belmont, A. P., M.D.		(918) 661-0879	(918) 335-3108
Dobbins, P. K., M.D.		(918) 661-3864	(918) 337-0641
LeBlanc, J. V., M.D.		(918) 661-4845	(918) 333-0136
PROPERTY TAX, REAL ESTATE & CLAIMS			
Houston, J. A.		(918) 661-5157	(918) 335-1077
Mason, T. L.		(918) 661-5185	(918) 333-4842
Schmalzer, R. L.		(918) 661-5680	(918) 333-2232
TREASURY			
Casselberry, D. W.		(918) 661-6353	(918) 335-3594
		(918) 661-5368	(918) 333-8486

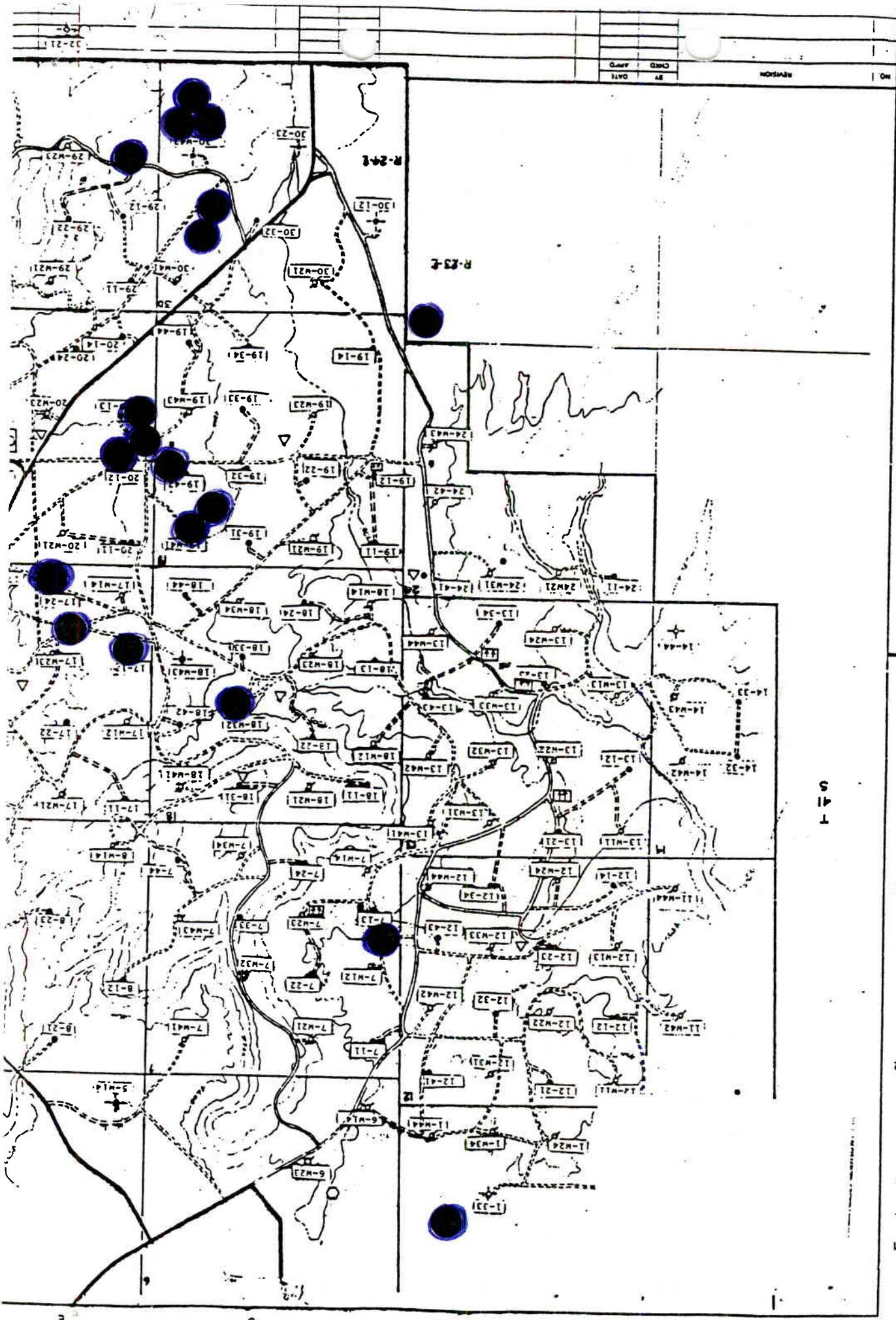
RESIDENTS

AREA RESIDENTS

RATHERFORD UNIT - WEST SIDE - RESIDENTS

<u>NAME</u>	<u>PHONE</u>	<u>NO. of MBRS.</u>
1. Tom Yellowman		
2. Arlene Sneak		
3. Ben B. Silas		
4. Harrison Benally		
5. Ray Benally, Jr.		
6. Ray Benally, Sr.		
7. Pete N. Benally		
8. Lorraine Benally		
9. Lillie Johnson		
Sarah Torivio		
10. JIm Benally		
11. Dorothy Topocheenie		
12. Martha Benally		
13. Marie Sneak		
14. Mamie Hamm		
15. Edison Blackie		
16. Brice Lee		
17. Jean Silas		
18. Bitsih Silas		
19. John Silas		

* Indicates household needing special assistance in evacuation.



S-1

7
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RATHERFORD UNIT - EAST SIDE - RESIDENTS

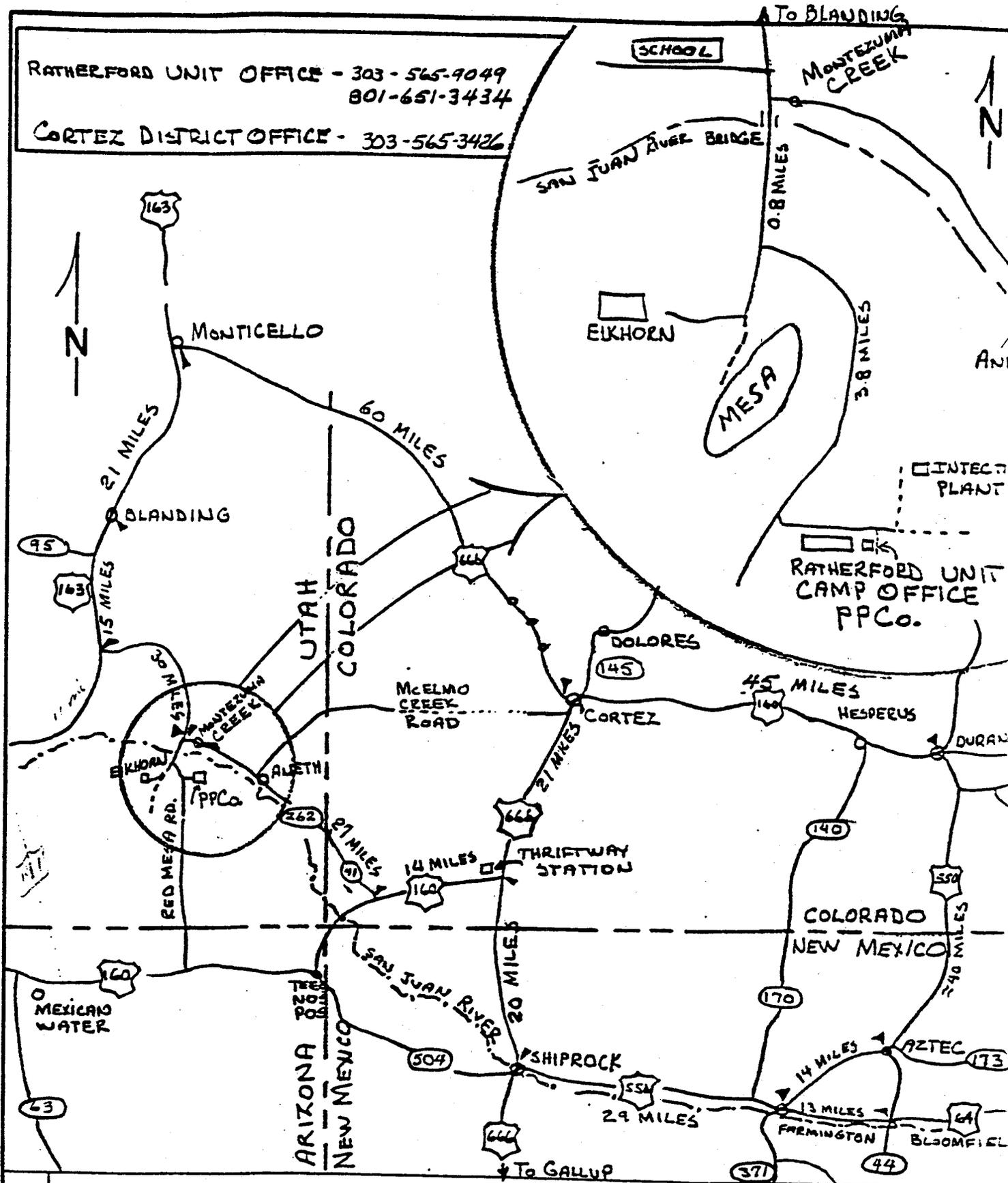
<u>NAME</u>	<u>PHONE</u>	<u>NO. of MBRs.</u>
1. Kee Silas		
2. Woody Sam		
3. Samuel Dee		
4. Isabelle Sam		
5. Marion Vazzie Tommy Dee		
6. Larry Sam		
7. Linda Begay		
8. Thomas Nakai		
9. Leo Sam		
10. Jimmy Holly		
11. Pat Banally		
12. Tom Lee		
13. Evans Holly, Sr. Allen Holly		
14. Kenneth Joe		
15. Mary Ahtsosie Thomas Holly		
16. Earl Ahtsosie		
17. Wilfred Jones		
18. Johnson Begay		
19. Ada Holly		
20. Stanley Sam Mae Banally		
21. Wallace Ashley		

* Indicates household needing special assistance in evacuation.

AREA MAP

RATHERFORD UNIT OFFICE - 303-565-9049
801-651-3434

CORTEZ DISTRICT OFFICE - 303-565-3426



NO.	REVISION	BY	DATE	CHKD	APPD	
FOR BIDS	 PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA				JA NO.	FILE COD
FOR APPR					AFE NO.	SCALE
FOR CONST						None

ROAD MAP

SECTION II
PROCEDURES

OPERATING CONDITIONS

Operating conditions when drilling in H₂S areas are defined in three categories. A description of each of these conditions and the required action to take are given below.

A. GREEN FLAG

NORMAL CONDITIONS

Drilling Operations Under Control

Alarm:

None

Characterized By:

Normal drilling operations near zones which contain or may contain H₂S or SO₂

Probable Occurrence:

No surface indications

General Action:

- (1) Know location of safety equipment
- (2) Check safety equipment for proper functioning. Keep it available.
- (3) Be alert for a condition change.
- (4) Follow instructions of supervisor.

B. YELLOW FLAG

CAUTIOUS OPERATING CONDITIONS

In Zone, No Surface Indications of Hydrogen Sulfide

Alarm:

None

Characterized By:

Cautious drilling operations in zones which contain or may contain hydrogen sulfide.

Probable Occurrence:

- (1) As drill gas.
- (2) As trip gas when circulating bottoms up
- (3) When a core barrel is pulled.
- (4) When a well kick is circulated out.
- (5) Surface pressure, well flow, or lost return problems.

B. YELLOW FLAG: (continued)

General Action:

- (1) Be alert for an alarm.
- (2) Take precautions before entering hazardous areas.
- (3) Put on breathing equipment if instructed to do so.
- (4) Be prepared for emergency rescue actions.

C. RED FLAG

The Red Flag is the alarm condition and begins with detection of Hydrogen Sulfide at the surface. The condition is divided into two levels: Low Alarm and High Alarm. The level depends upon the concentration of hydrogen sulfide detected.

LOW ALARM:

POTENTIAL TO MODERATE DANGER TO LIFE - H₂S Present in Concentrations of 10-20 ppm.

Alarm:

Flashing yellow light and low siren.

Characterized By:

H₂S presenting concentrations below 20 ppm.

Probable Occurrence:

- (1) As drill gas.
- (2) As trip gas when circulating bottoms up.
- (3) When a core barrel is pulled.
- (4) When a well kick is circulated out.
- (5) Surface pressure, well flow, or lost return problems.

General Action:

- (1) Flow instructions of supervisor.
- (2) Put on breathing equipment if
- (3) Stay in safe briefing area if so instructed and not working to correct the problem.

C. RED FLAG - continued

HIGH ALARM:

**MODERATE TO EXTREME DANGER TO LIFE-
H2S Present in Concentrations above
20 ppm.**

Alarm:

Flashing red light and continuous
blast on horn at 20 ppm H2S. In
the event of an uncontrolled flow,
the siren will be sounded.

Characterized By:

Critical well operations, well
control problems. In the extreme,
loss of well control. H2S present
in concentrations above 20 ppm.

Probable Occurrence:

- (1) As drill gas.
- (2) As trip gas when circulating
bottoms up.
- (3) When a core barrel is pulled.
- (4) When a well kick is circulated
out.
- (5) Surface pressure, well flow,
or lost return problems.

General Action:

- (1) Put on breathing equipment.
Move to safe briefing area and
remain there if not working to
correct or control problems.
- (2) Follow instructions of
Drilling Foreman or other
supervisor.
- (3) The Drilling Foreman will
initiate emergency action as
provided in the Contingency
Plan and as appropriate to the
actual conditions.
- (4) The Drilling Foreman will
ignite the well if deemed
necessary as outlined titled,
"Igniting the Well". The
Drilling Foreman will conduct
any necessary operations with
an absolute minimum of
personnel. All persons in the
immediate hazard area will
wear a self-contained
breathing apparatus. All
other personnel will restrict
their movements to those
directed by the Drilling
Foreman.

- (5) If the well is ignited, the burning hydrogen sulfide will be converted to sulfur dioxide, which is poisonous. Therefore, DO NOT ASSUME THAT THE AREA IS SAFE AFTER THE GAS IS IGNITED. CONTINUED TO OBSERVE EMERGENCY PROCEDURES AND FOLLOW THE INSTRUCTIONS OF THE DRILLING FOREMAN.

A large sign explaining the three conditions and announcing the condition that presently exists will be posted at each entrance to the location.

RESPONSIBILITIES

AND

DUTIES

RESPONSIBILITIES AND DUTIES

ALL PERSONNEL

It is the responsibility of all personnel on the Phillips Petroleum Company location to familiarize themselves with the procedure outlined in this plan.

Each person will attend to his/her own safety first.

Each person is responsible for helping someone who is injured or overcome by toxic gases. Remember to put breathing equipment on before helping anyone overcome by H₂S. Then remove him to a safe area and administer oxygen.

Report to the "SAFE BRIEFING AREA" and follow instructions of the Drilling Foreman.

DRILLING FOREMAN

The Drilling Foreman will:

- (1) Have complete charge of the rig operations during an emergency.
- (2) Take whatever action is necessary to ensure the safety of personnel, to protect the well, and to prevent property damage.
- (3) See that all personnel comply with safety and emergency procedures.
- (4) Inform the Drilling Superintendent of all events relating to this Contingency Plan as they occur.
- (5) Advise each contractor, service company, and all others entering the site of the hazards that may exist.
- (6) Authorize the evacuation of local residents if hydrogen sulfide threatens their safety.
- (7) Keep the number of persons on location to a minimum during hazardous operations.
- (8) Designate "SAFE BRIEFING AREAS".
- (9) Assess the situation when an alarm sounds and issue work orders; or when conditions warrant, order all personnel to "SAFE BRIEFING AREAS".
- (10) Direct corrective actions to control flow of gas.
- (11) Have full responsibility for the decision to ignite the well. The decision will be made only as a last resort.

RESPONSIBILITIES AND DUTIES (continued)

DRILLING CONTRACTOR

The Tool Pusher will:

- (1) Assume all emergency responsibilities of the Drilling Foreman if the Drilling Foreman is absent or incapacitated.
- (2) Order the Driller to secure the rig if time permits.
- (3) Perform any other duties as assigned by the Drilling Foreman.

SAFETY REPRESENTATIVE

In the absence of the Tool Pusher and Drilling Company Foremen, the Safety Representative will act as agent for Phillips Petroleum Company and assume their responsibility on behalf of Phillips Petroleum Company.

The Safety Representative will:

(Each Day):

- (1) Log arrivals and conduct training to ensure that all personnel are familiar with the contingency procedures and the operation of emergency equipment.
- (2) Check pressure on all SCBA air bottles to make sure that they are charged to full volume.
- (3) Check pressure on cascade air bottles to see that they are capable of recharging SCBA.
- (4) Check H₂S safety equipment for availability.
- (5) Check H₂S detectors to ensure they are working properly.
- (6) Maintain daily contact with the Drilling Foreman reporting on the condition, maintenance and readiness of the H₂S safety equipment and on drills and/or training for that day.
- (7) Provide monitoring at all times after penetration of possible H₂S bearing zones. This shall include rig-down of drilling equipment and rig-up of any completion and testing equipment.

RESPONSIBILITIES AND DUTIES - continued

(Each Week):

- (8) Check the following equipment to ensure that it is ready for emergency use:
- a. Respiratory Equipment.
 - b. Resuscitators.
 - c. Explosimeters.
 - d. Gastechs.
 - e. Portable electronic H₂S detector.
 - f. H₂S storage box items (i.e., Gastech tubes, etc.)

TEMPORARY SERVICE PERSONNEL

All service personnel, such as cementing crews, logging crews, specialists, mechanics, and welders, will furnish their own safety equipment as required to comply with OSHA regulations and the Drilling Foreman instructions.

VISITORS

1. When hydrogen sulfide might be encountered, visitors will not be permitted on location unless accompanied by the Drilling Foreman.
2. ~~Visitors and non-essential~~ personnel will not be allowed in an area where the hydrogen sulfide concentration in the atmosphere exceeds 10 ppm.

NOTE: WHEN HYDROGEN SULFIDE MIGHT BE ENCOUNTERED, NO PERSONNEL ON LOCATION WILL BE PERMITTED TO SLEEP IN VEHICLES.

IGNITING

THE

WELL

IGNITING THE WELL

RESPONSIBILITY

THE DECISION TO IGNITE THE WELL IS THE RESPONSIBILITY OF THE DRILLING FOREMAN. If he becomes incapacitated the Tool Pusher will assume responsibility; if he too is incapacitated, then the Safety Representative shall have the responsibility, acting as an agent for Phillips Petroleum Company.

1. The decision to ignite the well should be made only as a last resort and in a situation where it is clear that:
 - a. Human life and property are endangered.
 - b. There is no hope of controlling the blowout under the conditions prevailing at the well.
2. In all cases to the extent that time permits, every effort will be made to contact the Drilling Superintendent and secure his approval before igniting the well. However, such action is not to be delayed if human life is in danger.

INSTRUCTIONS FOR IGNITING THE WELL

1. Two persons are required for the actual igniting operation. Both men will wear self-contained breathing units and will have retrieval safety ropes attached. One man is responsible for checking the atmosphere for explosive gases, with an Explosimeter if available. The other man is responsible for igniting the well.
2. The primary method of igniting the well is a 25 mm flare gun with range of approximately 500 feet.
3. Always ignite the well from upwind, and do not approach any nearer to the well than is necessary.
4. Select a location that is clear and open for a hasty retreat, and which provides protection for the ignition team.
5. Before firing the flare gun, check the atmosphere at the location for any combustible gases.
6. With the well ignited, remember that burned hydrogen sulfide is converted to sulfide dioxide, which is also toxic and poisonous. Do not assume the area is safe when the gas is being burned.

IGNITING THE WELL - continued

7. After gas has been ignited, continue to observe the emergency action and procedures as before. Continue to follow the instructions of the Drilling Foreman.
8. All unassigned personnel will limit their actions to those ordered by the Drilling Foreman.

REMEMBER: AFTER THE WELL IS IGNITED, BURNING H₂S WILL CONVERT TO SO₂, WHICH IS ALSO HIGHLY TOXIC - DO NOT ASSUME THE AREA IS SAFE AFTER THE WELL IS IGNITED.

EVACUATION

EVACUATION PROCEDURES

In the event of an accidental release of a potentially hazardous volume of H₂S the following steps will be taken:

1. Contact by the quickest means of communications the offices of Phillips Petroleum Company as listed under Rutherford Unit - Emergency Phone Contact List in Section 1 of this Plan.
2. Assign a crew member to blockade the entrance to the location. No unauthorized personnel will be allowed entry into the location.
3. The operator's on-site representative will remain on location and attempt to regain control of the well.
4. The Phillips Petroleum Company Drilling Foreman will begin evacuation of those persons in immediate danger. He will begin by telephoning residents in the danger area.

In the event of no contact by telephoning, the tool pusher will proceed at once to each dwelling for a person-to-person contact. In the event the tool pusher cannot leave the location, he will assign a responsible crew member to proceed in the evacuation of local residents. Upon arrival, the Sheriff's Department and EnviroSAFE's personnel will aid in further evacuation.

5. The Phillips Petroleum Company Drilling Foreman will assign a Phillips Petroleum Company employee the duty of providing appropriate care for evacuated families.

**FIELD OPERATING PROCEDURES
RIG-UP OF DRILLING OPERATIONS**

The following procedures will be adhered to by the Contractor responsible for the rig-up of safety equipment on the drilling rig location:

GENERAL:

1. Check the trailer before you leave the shop and make sure that all of the equipment is present.
2. Check for prevailing winds upon your arrival on location.
3. Check with the Company Representative or Tool Pusher for specific instructions on Placement of safety equipment.
4. Equipment is to be rigged up neatly and should be placed in the proper place.

PROTECTIVE BREATHING APPARATUS:

1. Shall be placed within one breath of heavy works area.
2. Rescue units and refill hoses shall be stationed at each briefing area.
3. Escape units shall be placed in the following areas: the Rig Floor, The Mud Tanks, and The Derrick.
4. Breathing units will be provided for each person remaining on location on a regular basis.

BRIEFING AREAS:

1. There will be at least two (2) Briefing Areas set at a 90 degree to 180 degree angle in direct relationship to each other with the wellhead as the directional point.
2. They are to be placed up-wind from the prevailing winds and frontal winds.
3. The briefing areas are to be placed 150' to 200' from wellhead.
4. The primary briefing area (safety trailer) shall contain the following equipment:

Fire Extinguisher	First Aid Kit
Gastech & Tubes	Rescue Unit
Resuscitator	Breathing Air Compressor
Filler Hose	Flare with Shells
6 - 300 cu. ft. Breathing Air	

FIELD OPERATING PROCEDURES - DRILLING

BRIEFING AREA: (continued)

5. Briefing Area #2 will provide a secondary gathering location with the following equipment:

Six Bottles of Breathing Air, Rescue Unit, and Filler Hose

WINDSOCKS:

1. A wind directional indicator (flag) is to be placed at the entrance to location.
2. Windsocks are to be placed throughout location so that no area is without wind directional indicators; and should be placed as follows:
 - (1) DERRICKSTAND OR SAFETY TRAILER
 - (2) BRIEFING AREA #2 RACK
 - (3) RIG FLOOR (if possible)

ELECTRONIC DETECTION SYSTEM:

1. A monitor requires a one hour warm up to show any sign of malfunctions; this requires the electronic monitoring system to be rigged up first.
2. A monitor shall be located in an area most conducive to personnel monitoring. (example: The Doghouse).
3. Monitor sensor heads will be placed wherever poisonous gas may be encountered. The most common set-up is as follows:
 - (1) Rig Floor
 - (2) Shale Shaker
 - (3) Cellar

SIGNS:

1. A well condition sign is to be placed at entrance to location.
2. There should be (3) signs set up on location, which include:
 - (1) NO SMOKING
 - (2) DANGER - POISONOUS GAS
 - (3) AUTHORIZED PERSONNEL ONLY

FIELD OPERATING PROCEDURES - DRILLING

EQUIPMENT MAINTENANCE CHECKS:

1. Equipment will be serviced for the following reasons:
 - (1) Operational Functions
 - (2) Cleanliness
2. Equipment checks will be verified by the signing of the inspection card. This card is inside the breathing unit.
3. Inspection cards are to be signed and the site inspection report filled out on location before you return to the shop.
4. All site inspection reports are to be signed by someone on location.
5. Equipment is to be checked at least once a week and before each Drill Stem Test or Core.

TRAINING:

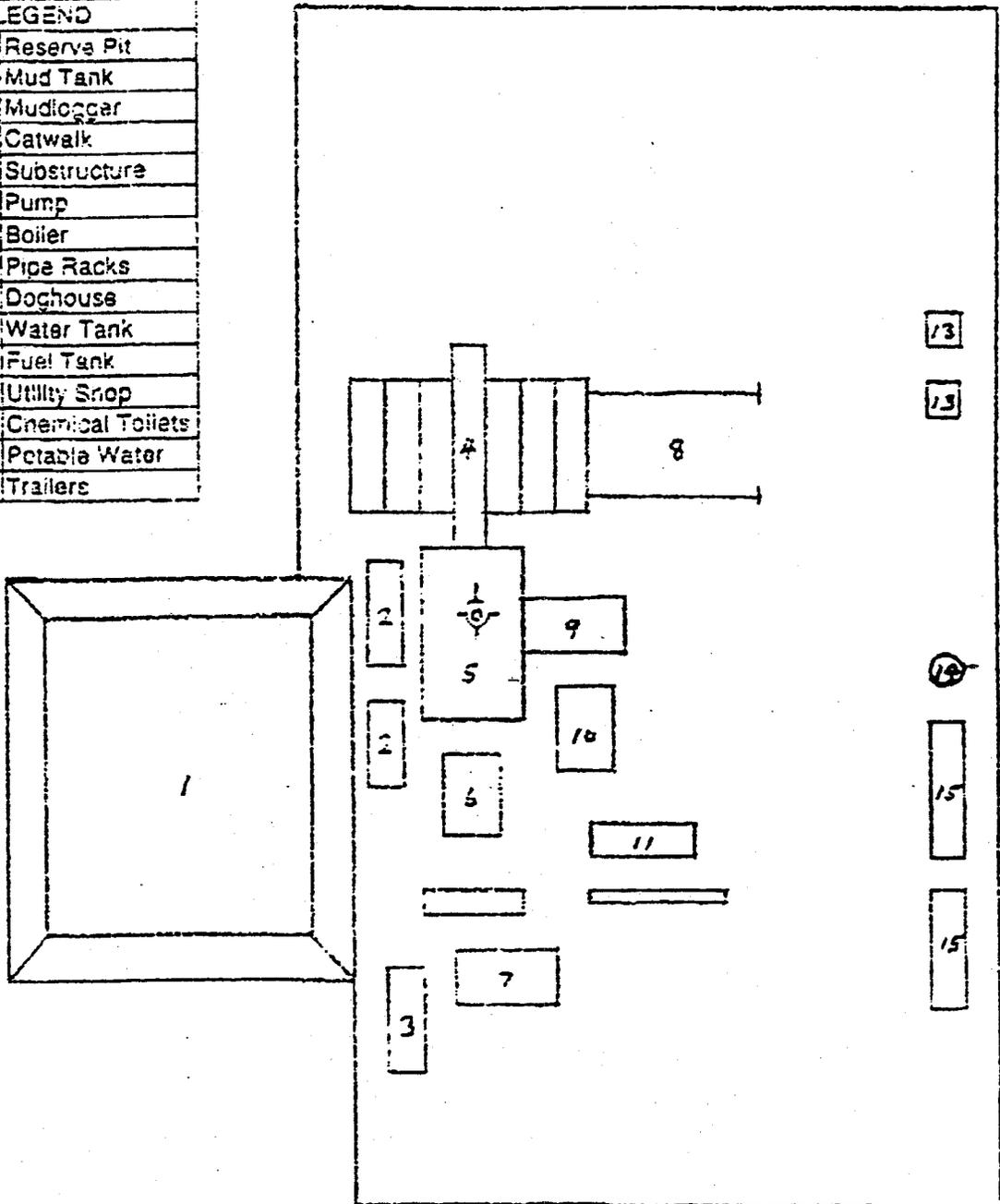
1. Training arrangements for wellsite personnel are to be made at the time of the rig-up. Train crews that are available during the time of the rig-up; and bring back a time scheduled for the other crews that need to be trained.

DRILLS:

1. After reaching anticipated H₂S zone, drills will be performed at least weekly.

EQUIPMENT MAP

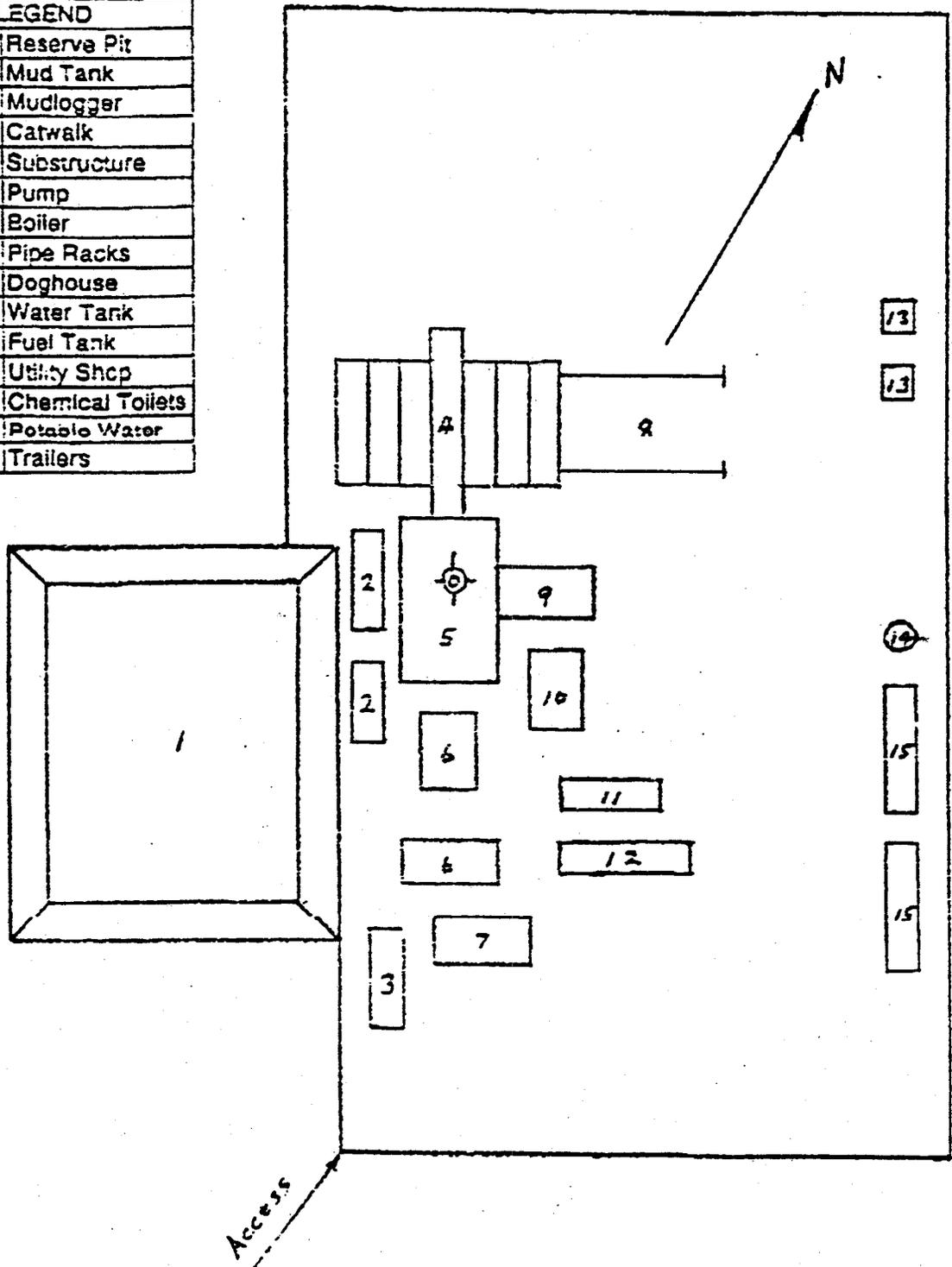
LEGEND	
1	Reserve Pit
2	Mud Tank
3	Mudcogger
4	Catwalk
5	Substructure
6	Pump
7	Boiler
8	Pipe Racks
9	Doghouse
10	Water Tank
11	Fuel Tank
12	Utility Shop
13	Chemical Toilets
14	Potable Water
15	Trailers



Hathertord Unit 13-14 San Juan County, Utah Location Layout

Overall size: 285' x 350'

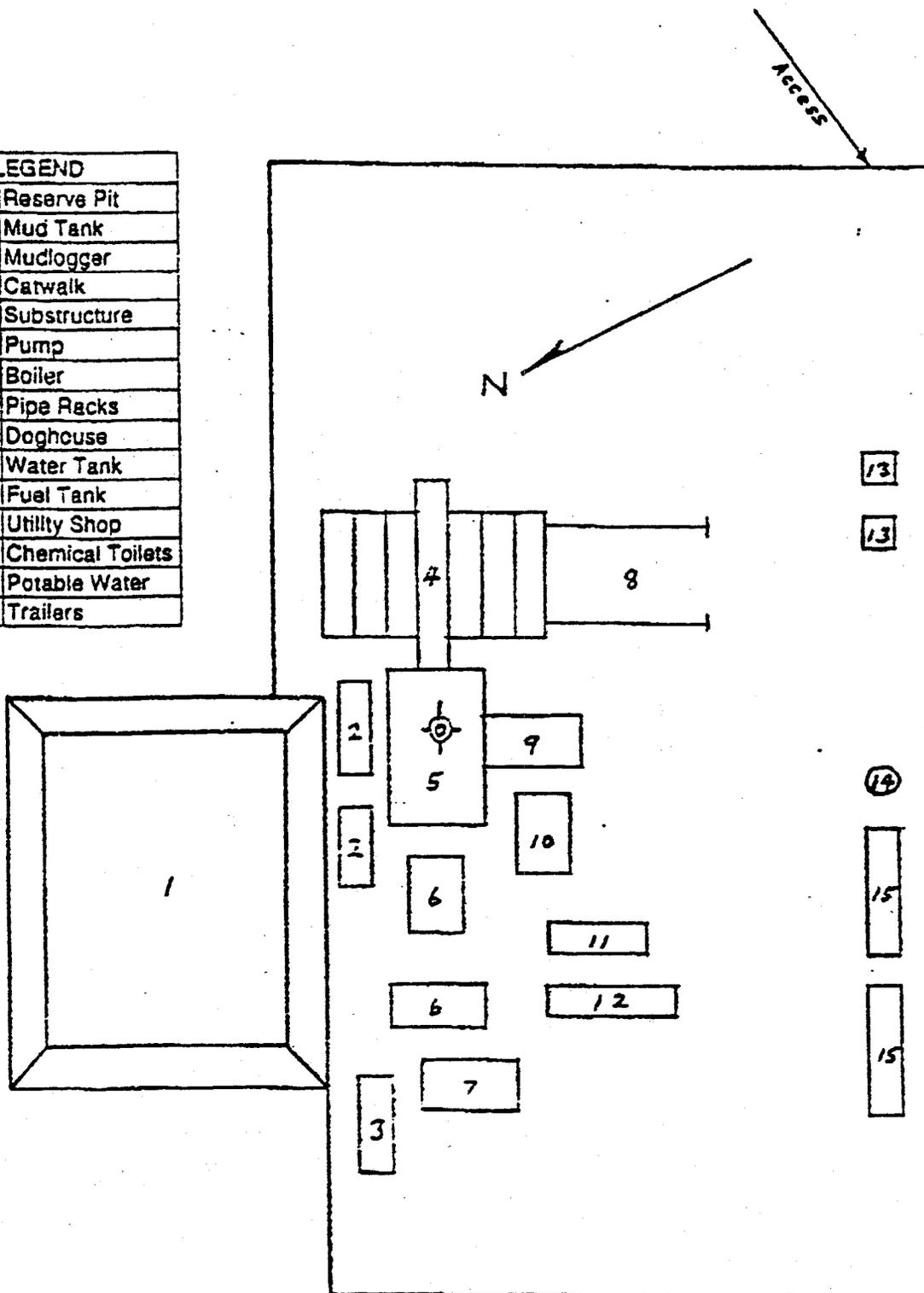
LEGEND	
1	Reserve Pit
2	Mud Tank
3	Mudlogger
4	Catwalk
5	Substructure
6	Pump
7	Boiler
8	Pipe Racks
9	Doghouse
10	Water Tank
11	Fuel Tank
12	Utility Shop
13	Chemical Toilets
14	Potable Water
15	Trailers



Ratherford Unit 24 32
 San Juan County, Utah
 Location Layout

(Overall Size: 285' x 350')

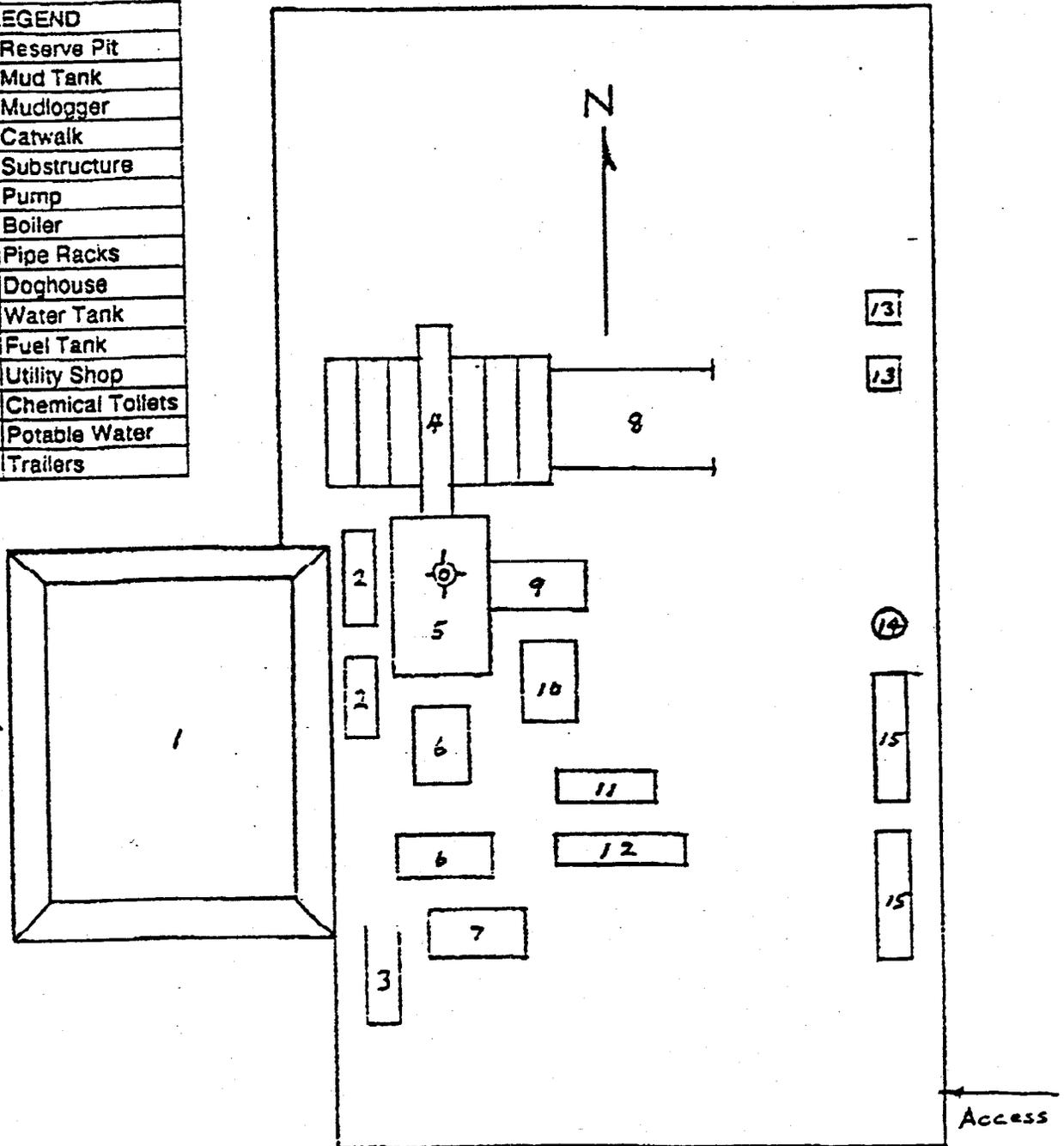
LEGEND	
1	Reserve Pit
2	Mud Tank
3	Mudlogger
4	Catwalk
5	Substructure
6	Pump
7	Boiler
8	Pipe Racks
9	Doghouse
10	Water Tank
11	Fuel Tank
12	Utility Shop
13	Chemical Toilets
14	Potable Water
15	Trailers



Ratherford Unit 19-97 San Juan County, Utah Location Layout

(Overall Size: 285' x 350')

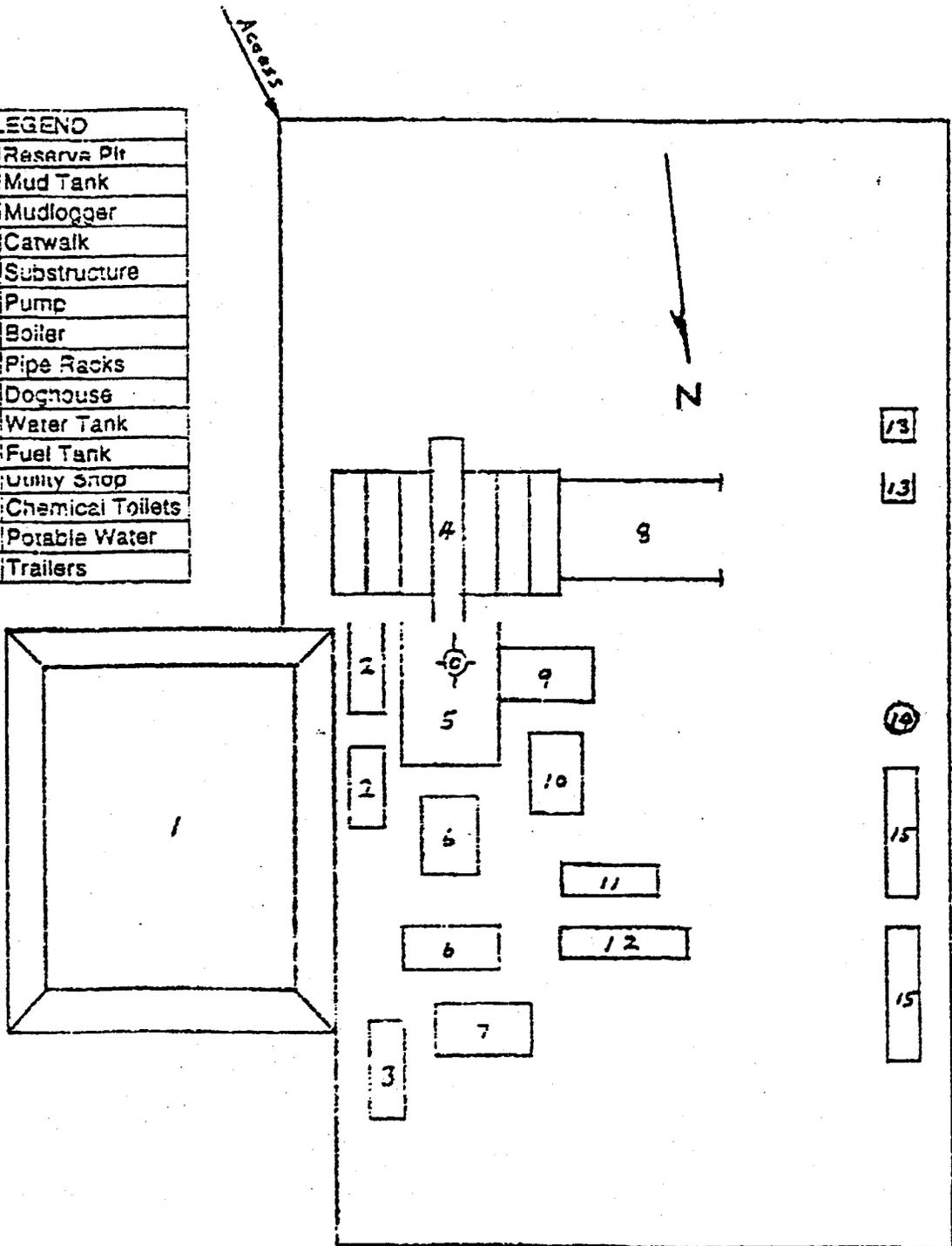
LEGEND	
1	Reserve Pit
2	Mud Tank
3	Mudlogger
4	Catwalk
5	Substructure
6	Pump
7	Boiler
8	Pipe Racks
9	Doghouse
10	Water Tank
11	Fuel Tank
12	Utility Shop
13	Chemical Toilets
14	Potable Water
15	Trailers



**Ratherford Unit 20-86
San Juan County, Utah
Location Layout**

(Overall Size: 285' x 350')

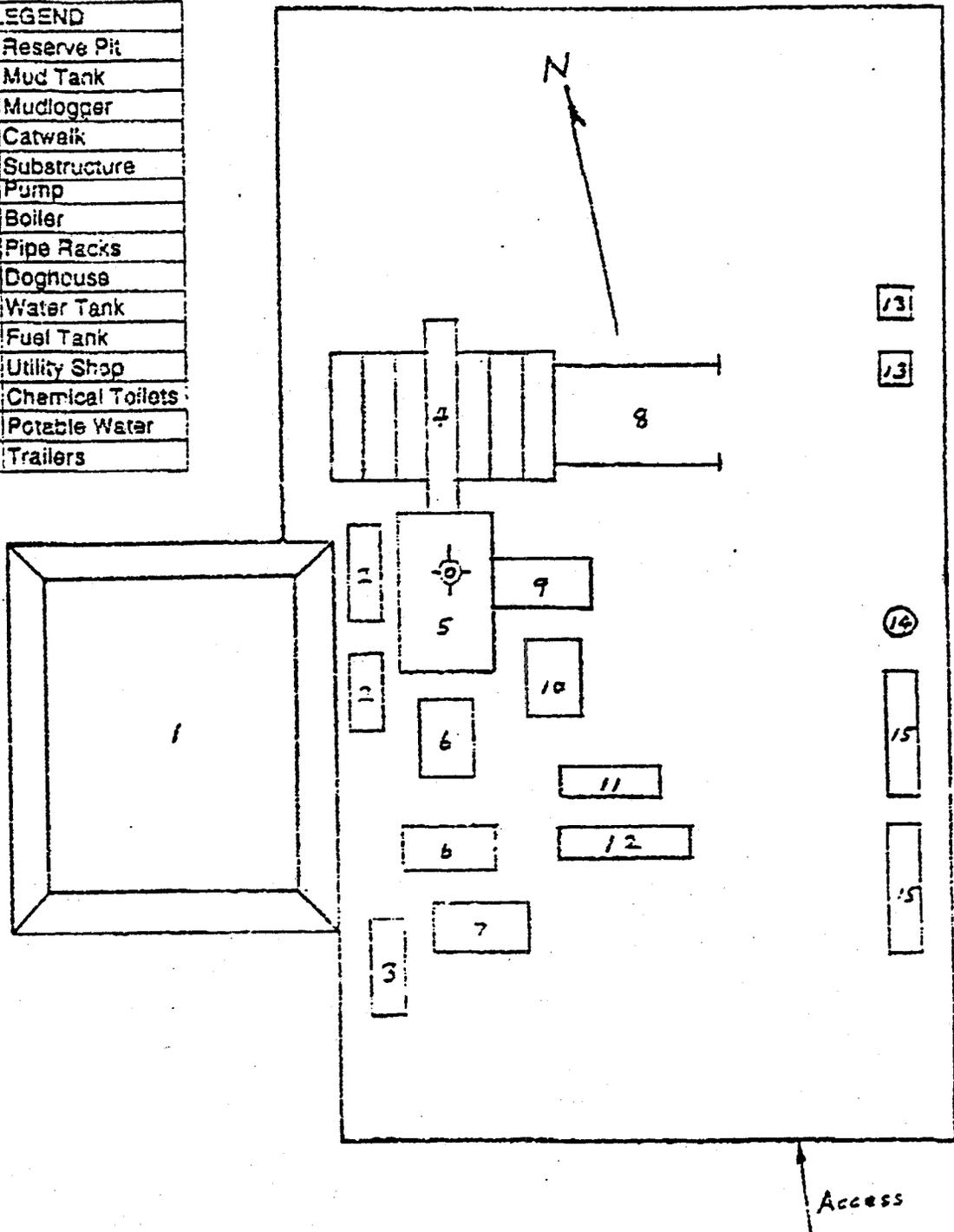
LEGEND	
1	Reserve Pit
2	Mud Tank
3	Mudlogger
4	Carwalk
5	Substructure
6	Pump
7	Boiler
8	Pipe Racks
9	Doghouse
10	Water Tank
11	Fuel Tank
12	Utility Shop
13	Chemical Toilets
14	Potable Water
15	Trailers



Rutherford Unit 20-67
 San Juan County, Utah
 Location Layout

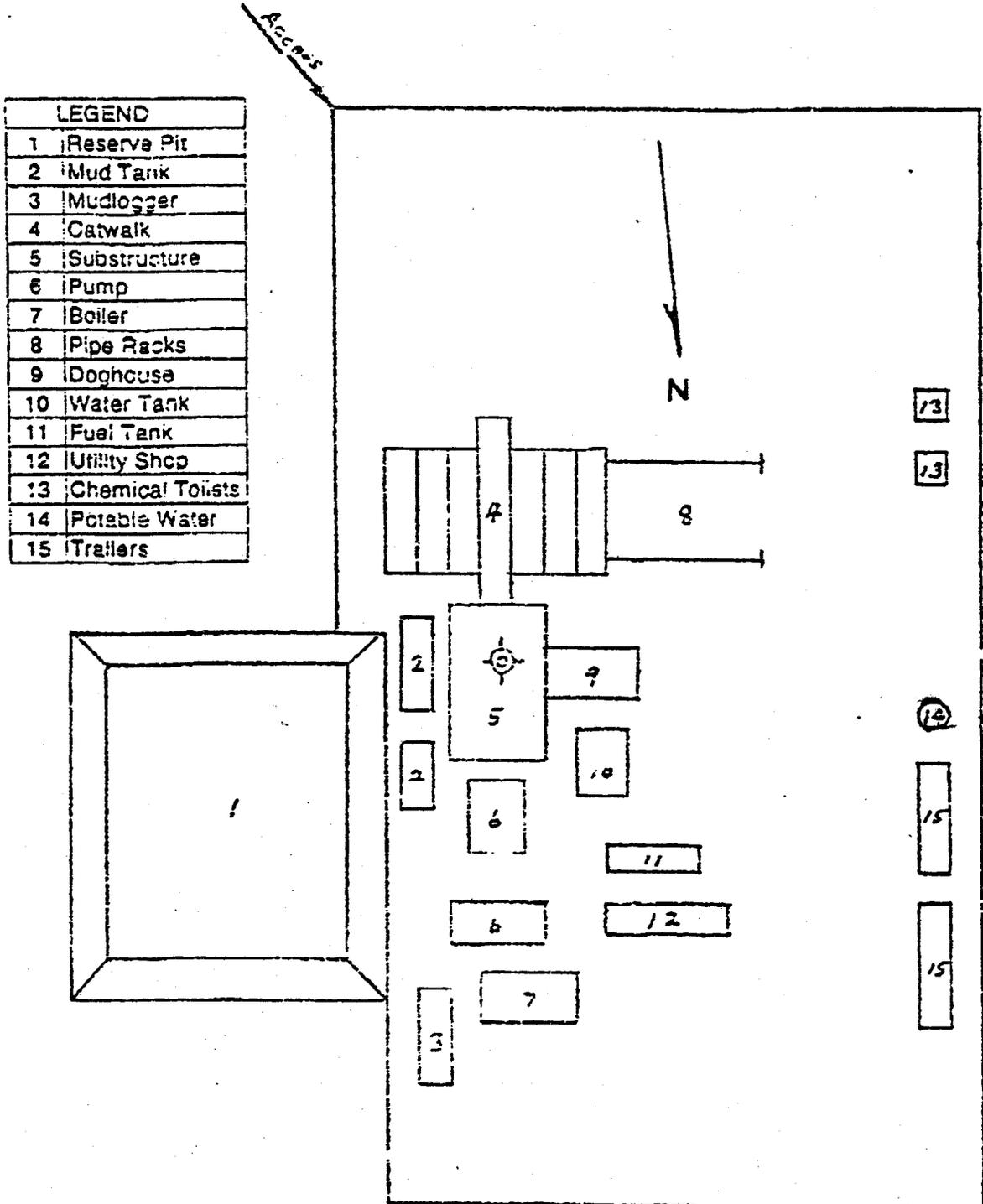
(Overall size: 285' x 350')

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 20-68 San Juan County, Utah Location Layout

(Overall Size: 265' x 350')



**FIELD OPERATING PROCEDURES
RIG-UP OF WORK-OVER/COMPLETION OPERATIONS**

The following procedures will be adhered to by the Contractor responsible for the rig-up of safety equipment on a work-over or completion operation:

GENERAL:

1. Check the trailer before you leave the shop and make sure that all of the equipment is present.
2. Check for prevailing winds upon your arrival on location.
3. Check with the Company Representative or Operator for specific instructions on placement of safety equipment.
4. Equipment is to be rigged up neatly and should be placed in the proper place.

PROTECTIVE BREATHING APPARATUS:

1. Escape units with 50' air hose shall be placed in the following areas: Operator's stand, derrick, pumps (if present), and any tanks present on location.
2. Rescue units shall be placed at each guideline anchor, doghouse, and briefing areas.
3. Breathing units will be provided for each person remaining on location on a regular basis.

BRIEFING AREAS:

1. There will be at least two (2) Briefing Areas set at a 90 degree to 180 degree angle in direct relationship to each other with the wellhead as the directional point.
2. They are to be placed up-wind from the prevailing winds and frontal winds.
3. The briefing areas are to be placed 150' to 200' from wellhead.
4. The primary briefing area (safety trailer) shall contain the following equipment:

Fire Extinguisher	First Aid Kit
Gastech & Tubes	Rescue Unit
Resuscitator	Breathing Air Compressor
Filler Hose	
6 - 300 cu. ft. Breathing Air	

FIELD OPERATING PROCEDURES - WORK-OVER/COMPLETION - continued

WINDSOCKS:

1. A wind directional indicator (flag) is to be placed at the entrance to location.
2. Windsocks are to be placed throughout location so that no area is without wind directional indicators; and should be placed as follows:
 - (1) SAFETY TRAILER
 - (2) BRIEFING AREA #2 RACK
 - (3) FRONT OF WORK-OVER RIG

SIGNS:

1. A well condition sign is to be placed at entrance to location.
2. There should be (3) signs set up on location, which include:
 - (1) NO SMOKING
 - (2) DANGER - POISONOUS GAS
 - (3) AUTHORIZED PERSONNEL ONLY

INSPECTION CARDS:

1. Are to be signed, and site inspection reports filled out on location before you return to the shop.

TRAINING:

1. Training of all wellsite personnel is to be done at the time of rig-up.

SPECIAL OPERATIONS

SPECIAL OPERATIONS

CORING OPERATIONS IN H₂S BEARING ZONES

1. Personnel protective breathing apparatus should be worn from 10 to 20 stands in advance of retrieving the core barrel. Cores to be transported should be sealed and marked for the presence of H₂S.
 - a. Yellow caution flag will be flown at the well condition sign.
 - b. The No Smoking rule will be enforced.

DRILL STEM TESTING

1. Drill Stem Testing of Hydrogen Sulfide zones will be permitted in daylight hours only.
2. All non-essential personnel will be moved to a "Safe Briefing Area".
3. Put on air mask before formation fluids are expected at the surface and continue "MASK ON" until flares are lighted and work areas test no more than 10 ppm Hydrogen Sulfide and the area has been declared safe.
4. If warranted, the use of Ammonia Hydroxide, (26 Degree Beaume' Aqua Ammonia) for neutralizing the toxicity of Hydrogen Sulfide from drill string.
 - a. During drill stem tests, adequate Filming Amine for H₂S corrosion and Aqua Ammonia for neutralizing H₂S will be on location.
5. The DST subsurface equipment will be suitable for H₂S service as recommended by the American Petroleum Institute.
6. The No Smoking rule will be enforced.
7. DST fluids will be circulated through a separator to permit flaring of gas. A continuous pilot light will be used.
8. A yellow or red flag will be flown at entrance to location depending on present on present gas conditions.

ADDITIONAL INFORMATION

ADDITIONAL INFORMATION

HYDROGEN SULFIDE

A deadly enemy of those people employed in the petroleum industry, this gas can paralyze or kill quickly. At least part of the answer lies in education in the hazards, symptoms, use of personal protective equipment.

Hydrogen Sulfide Hazards

The principle hazard to personnel is asphyxiation or poisoning by inhalation. Hydrogen Sulfide is a colorless, flammable gas having an offensive odor and sweetish taste. It is highly toxic and doubly hazardous because it is heavier than air (specific = 1.19). Its offensive odor, like that of a rotten egg, has been used as an indicator by many old timers in the oil fields, but is not a reliable warning of the presence of gas in a dangerous concentration because people differ greatly in their ability to detect smells. Where high concentrations are encountered, the olfactory nerves are rapidly paralyzed, deluding the sense of smell as a warning indicator. A concentration of a few hundredths of one percent higher than that causing irritation, can cause asphyxia and death - in other words, there is a very narrow margin between consciousness and unconsciousness, and between unconsciousness and death.

Physiological Symptoms

Acute: Results in almost instantaneous asphyxia, with seeming respiratory paralysis. Acute poisoning or strangulation, may occur after even a few seconds inhalation or high concentrations and results in panting respiration, pallor, cramps, paralysis and almost immediate loss of consciousness with loss of speech, and no other warning than a cry. Death may follow with extreme rapidity from respiratory and cardiac paralysis. One breath of a sufficiently high concentration may have this result.

Subacute: Results in irritation, principally of the eyes, persistent cough, tightening or burning in the chest and skin irritation followed by depression of the central nervous system. The eye irritation ranges in severity from mild conjunctivitis to swelling and bulging of the conjunctiva, photophobia (abnormal intolerance of light) and temporary blindness.

Treatment

1. Victim should be removed to fresh air immediately by rescuers wearing respiratory protective equipment. Protect yourself while rescuing.
2. If the victim is not breathing, begin immediately to apply artificial respiration. If a resuscitator is available, let another employee get it and prepare for use.
3. Treat for shock, keep victim warm and comfortable.
4. Call a doctor. In all cases, victims of poisoning should be attended by a physician.

Characteristics

1. Extremely toxic.
2. Heavier than air. Specific gravity = 1.19.
3. Colorless, has odor of rotten eggs.
4. Burns with a blue flame and produces Sulfur Dioxide (SO₂) gas, which is very irritating to eyes and lungs. The SO₂ is also toxic and can cause serious injury.
5. H₂S forms explosive mixture, with air between 4.3% and 46% by volume.
6. H₂S is almost as toxic as hydrogen cyanide.
7. Between 5 and 6 times as toxic as carbon monoxide.
8. Produces irritation to eyes, throat and respiratory tract.
9. Threshold Limit Value (TLV) maximum of eight hours exposure without protective respiratory equipment - 10 ppm.

Safe Practices

If you are faced with an H₂S problem in your operations, the following safe practices are recommended.

1. Be absolute sure all concerned are familiar with the hazards concerning H₂S and how to avoid it.
2. All employees should know how to operate and maintain a resuscitator and respiration equipment.
3. Be able to give and demonstrate artificial respiration.

Safe Practices (continued)

4. Post areas where there is poisonous gas with suitable warning signs.
5. Be sure all new employees are thoroughly trained before they are sent to the field - tomorrow may be too late.
6. Teach employees to avoid exposure to gas when ever possible - work on the windward side, have breathing equipment available.
7. Never let poor judgement guide you - wear respiratory equipment when gauging tanks, etc. Never try to hold your breath in order to enter a contaminated atmosphere.
8. In areas of high concentration, a two-person operation is recommended.
9. Never enter a tank, cellar, or other enclosed place where gas can accumulate without proper respiratory protective equipment and a safety belt secured to a life line held by another person outside.
10. Always check out danger areas first with H₂S detectors before allowing anyone to enter. DO NOT TRY TO DETERMINE THE PRESENCE OF GAS BY ITS ODOR.
11. Wear proper respiratory equipment for the job at hand. Never take a chance with equipment with which you are unfamiliar. If in doubt, consult your supervisor.
12. Carry out practice drills every month with emergency and maintenance breathing equipment. Telling or showing a group how to operate equipment is not enough - make them show you.
13. Maximum care should be taken to prevent the escape of fumes into the air of working places by leaks, etc.
14. Communications such as radios and telephones should be provided for those people employed where H₂S may be present.

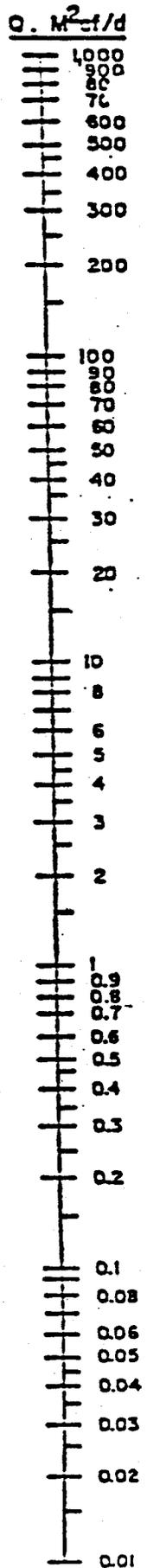
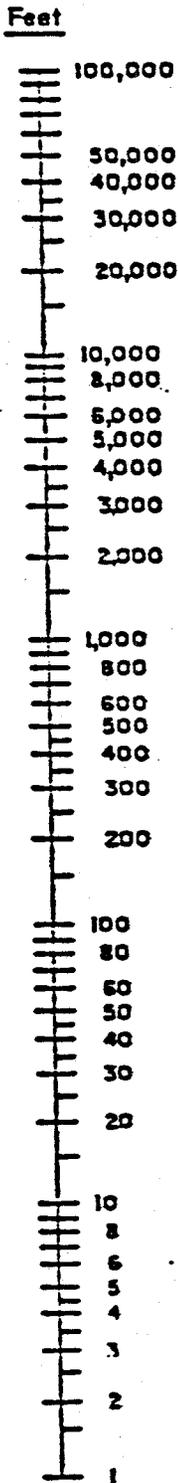
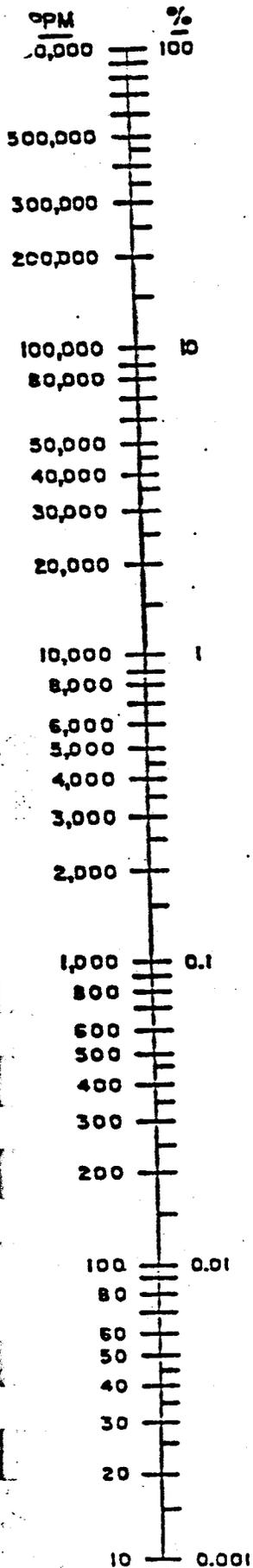
THE USE OF SELF-CONTAINED BREATHING EQUIPMENT

1. Written procedures shall be prepared covering safe use of respirators in dangerous atmosphere which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available respirators.
2. Respirators shall be inspected frequently at random to insure that they are properly used, cleaned and maintained.
3. Anyone who may use the respirators shall be trained in how to insure proper face piece to face seal. They shall wear respirators in normal air and then wear it in a test atmosphere. (note: Such items as facial hair, beard or sideburns and eyeglass temple pieces will not allow a proper seal). Anyone that may be entering a toxic atmosphere. A special mask must be obtained for anyone who must wear eyeglasses.
4. Maintenance and care of respirators:
 - A. A program for maintenance and care of respirators shall include the following:
 - (1) Inspection for defects, including leak checks.
 - (2) Cleaning and disinfecting.
 - (3) Repair.
 - (4) Storage.
 - B. Inspection: Self-contained breathing apparatus for emergency use shall be inspected monthly for the following and a permanent record kept of these inspections:
 - (1) Fully charged cylinders.
 - (2) Regulator and warning device operation.
 - (3) Condition of face piece and connections.
 - (4) Elastometer or rubber parts shall be stretched or massaged to keep them pliable and prevent deterioration.
 - C. Routinely used respirators shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.

THE USE OF SELF-CONTAINED BREATHING EQUIPMENT (continued)

5. Person assigned task that required self-contained breathing equipment shall be certified physically first for breathing equipment usage by the local company physician at least annually.
6. Respirators should be worn when:
 - A. Any employee works near the top or on top of any tank unless test reveals less than 20 ppm of H₂S.
 - B. When breaking out any line where H₂S can reasonably be expected.
 - C. When sampling air in areas to determine if toxic concentrations of H₂S exist.
 - D. When working in areas where over 20 ppm H₂S has been detected.
 - E. At any time there is a doubt as to the H₂S level in the area to be entered.

HYDROGEN SULFIDE 100 PPM EXPOSURE RADIUS



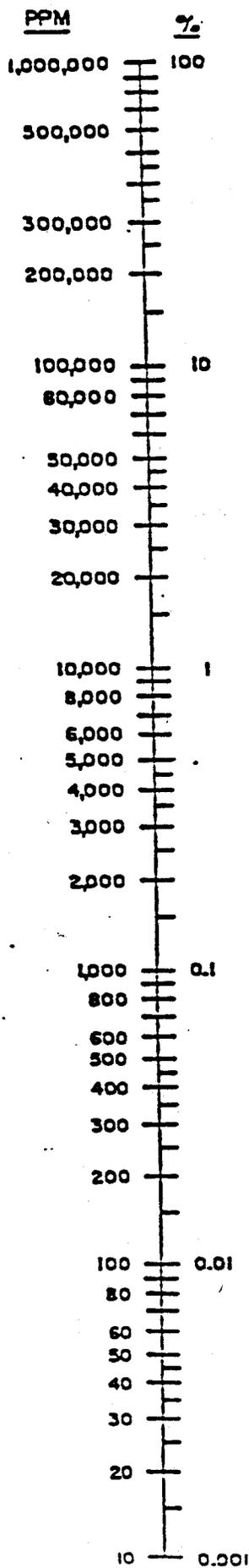
At $X = 3000$ Ft.

$Q = 226,547$
PPM

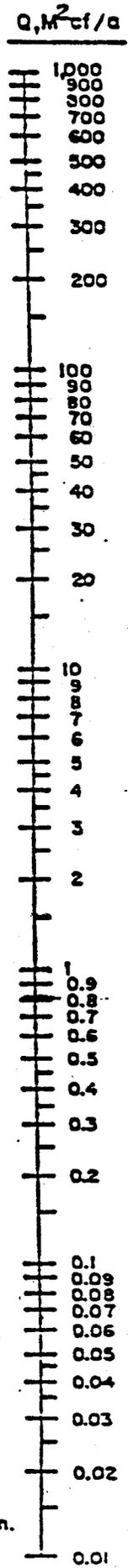
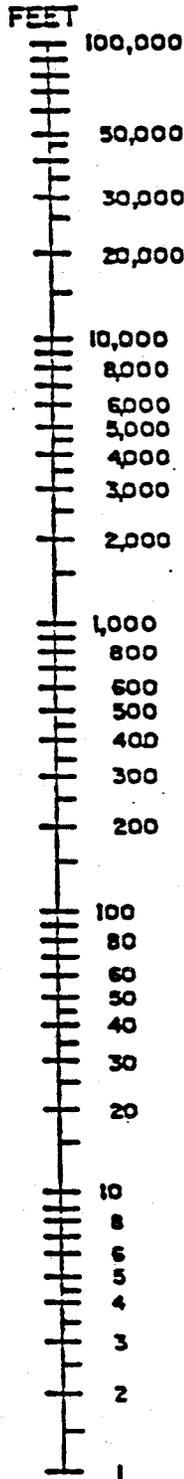
At $X = 50$ Ft.

$Q = 326.4$
PPM

$100 \text{ PPM Radius of Exposure in Feet} = X$
 $X = [(1.589)(\text{Mole Fraction})(\text{Escape Rate})]^{0.6258}$
 $= [(1.589)(\text{PPM})(Q \text{ in } M^2 ft/d)]^{0.6258}$



HYDROGEN SULFIDE
500 PPM EXPOSURE RADIUS



At X = 50 Ft.
 Q = 1140.9
 PPM

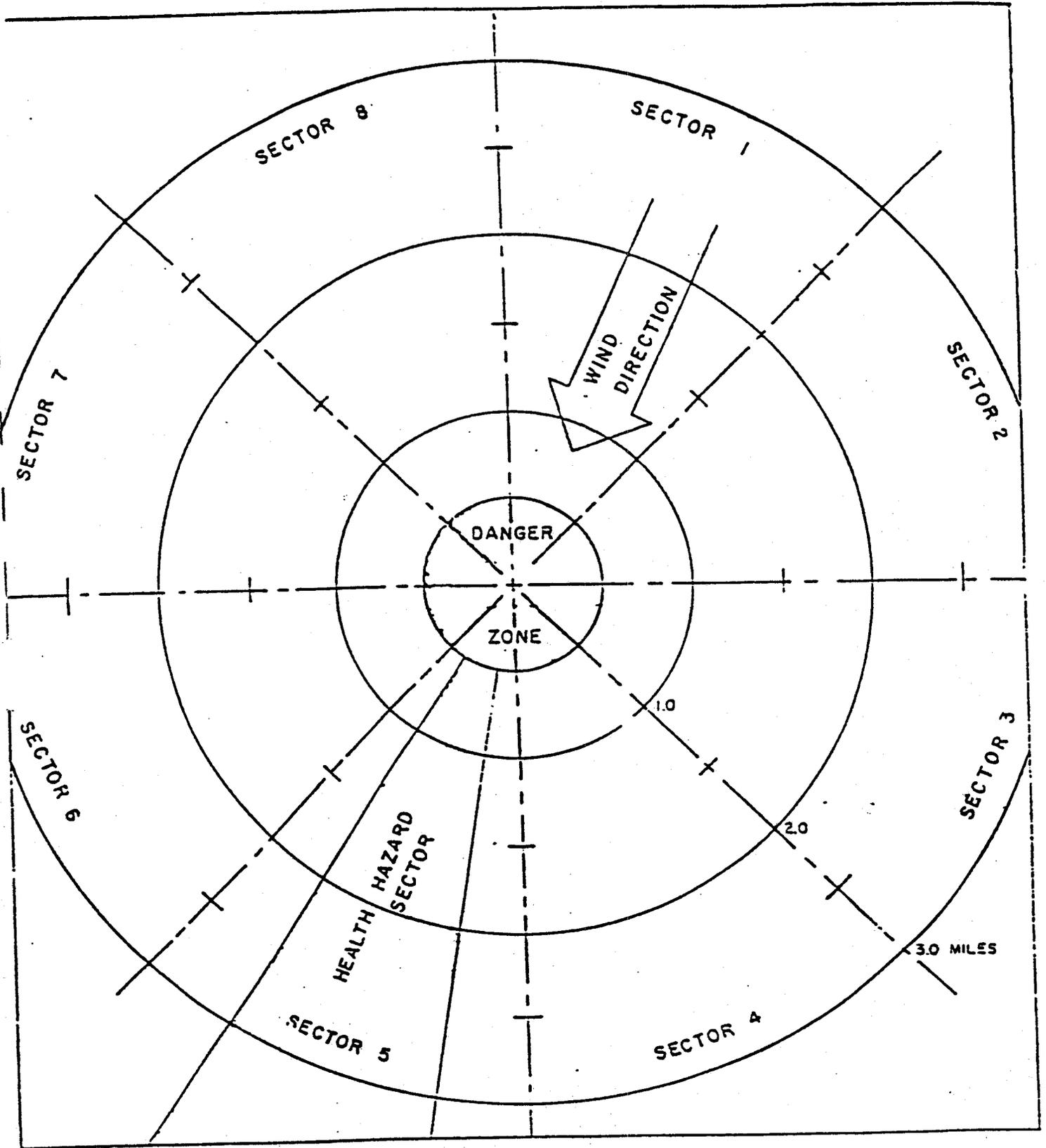
500 PPM Radius of Exposure in Feet = X

$$X = [(0.4546)(\text{Mole Fraction})(\text{Escape Rate})]^{0.6258}$$

$$X = [(0.4546)(\text{PPM} \times 10^6)(Q \times 10^6 \text{ cu. ft.})]^{0.6258}$$

Wind velocity = 1 mph; Plume is shape of H₂S dispersion.

Pressure base 14.65 psia, T_b = 60°F



EXAMPLE
RESIDENCE
LOCATION
MAP

SCALE 0 1/4 1/2

OPERATOR Phillips Petroleum Co - N-0770 DATE 4-10-91
WELL NAME Rathford Unit 11-43
SEC NESE 11 T 415 R 023E COUNTY San Juan

43-037-31000
API NUMBER

Indian (w)
TYPE OF LEASE

CHECK OFF:

PLAT.

BOND

NEAREST WELL

LEASE

FIELD SLOM

POTASH OR OIL SHALE

PROCESSING COMMENTS:
Included in 1991 P.O.D. per Duane Spencer BLM.
Water Permit

APPROVAL LETTER:

SPACINGS:

R615-2-3

Rathford Unit
UNIT

R515-3-2

N/A
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

1- Needs water permit
CC: BIA



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
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

April 30, 1991

Phillips Petroleum Company
300 W. Arrington, Suite 200
Farmington, New Mexico 87401

Gentlemen:

Re: Ratherford 11-43 Well, 1980 feet from the South line, 660 feet from the East line, NE SE, Section 11, Township 41 South, Range 23 East, San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Utah Code Ann. Section 40-6-18, et seq. (1953, as amended), and Utah Admin. R.615-2-3, subject to the following stipulation:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. Section 73-3, Appropriation.

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 Entity Action Form 6, 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 in the event it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or J. L. Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Utah Admin. R.615-3-20, Gas Flaring or Venting.

Page 2
Phillips Petroleum Company
Ratherford 11-43
April 30, 1991

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 Drinking Water/Sanitation, telephone (801) 538-6159.
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 43-037-31622.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
Bureau of Indian Affairs
J. L. Thompson
we14/1-28



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Robert L. Morgan, State Engineer

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

May 16, 1991

RECEIVED

MAY 20 1991

DIVISION OF
OIL GAS & MINING

Phillips Petroleum Company
Attn: L. Edward Hasely
5525 Highway 64 NBU 3004
Farmington, New Mexico 87401

Re: Temporary Change Application t91-09-01
Ratherford Unit 11-43: NE4SE4 Sec. 11, T41S, R23E, SLB&M - 43-037-31622
Ratherford Unit 14-41: NE4NE4 Sec. 14, T41S, R23E, SLB&M - 43-037-31623
Expiration Date: May 15, 1992

Dear Mr. Hasely:

The above referenced Temporary Change Application is hereby approved, and a copy is enclosed for your information and records.

If you have any questions, please feel free to contact me.

Sincerely,

Mark P. Page
Area Engineer

cc: Tammy Searing, Division of Oil, Gas & Mining

Enclosures
MPP/mjk

RECEIVED

MAY 20 1991

APPLICATION FOR TEMPORARY CHANGE OF WATER

DIVISION OF OIL GAS & MINING

STATE OF UTAH

Rec. by _____
Fee Paid \$ _____
Receipt # _____
Microfilmed _____
Roll # _____

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 91 - 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: 5525 Highway 64 NBU 3004

City: Farmington State: New Mexico Zip Code: 87401

2. *PRIORITY OF CHANGE: May 15, 1991 *FILING DATE: May 15, 1991

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

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

Prior Approved Temporary Change Applications for this right: t90-09-01; t90-09-02

***** 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' 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): Oil field pressure maintenance & 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 4.0 ac-ft.
15. SOURCE: Underground Water Wells (20)
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: Same as heretofore
*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 4.0 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 5 / 13/ 91 to 5 / 12/ 92

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 well drilling and other associated uses.

22. PLACE OF USE

Legal description of place of use by 40 acre tract(s): _____

- 1) Ratherford Unit 11-43: NE 1/4 SE 1/4 Sec. 11, T41S, R23E, SLB&M
2) Ratherford Unit 14-41: NE 1/4 NE 1/4 Sec. 14, 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):
4.0 acre-feet of water will be taken from the Ratherford Unit well complex and used for the construction and drilling of two additional Ratherford Unit oil 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).

L. Edward Haseby
Signature of Applicant(s)

PLACE OF USE

Ratherford Unit 11-43

NE SE Sec. 11-T41S-R23E

Ratherford Unit 14-41

NE NE Sec. 14-T41S-R23E

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

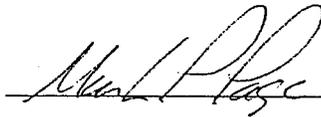
STATE ENGINEER'S ENDORSEMENT

TEMPORARY CHANGE APPLICATION NUMBER: t91-09-01

1. May 15, 1991 Change Application received by MP.
2. May 16, 1991 Application designated for APPROVAL by MP.
3. Comments:

Conditions:

This application is hereby APPROVED, dated May 16, 1991, subject to prior rights and this application will expire on May 15, 1992.



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

WATER PERMIT OK

DIVISION OF OIL, GAS AND MINING

API NO. 43-037-31622

SPUDDING INFORMATION

NAME OF COMPANY: PHILLIPS PETROLEUM COMPANY

WELL NAME: RATHERFORD 11-43

SECTION NESE 11 TOWNSHIP 41S RANGE 23E COUNTY SAN JUAN

DRILLING CONTRACTOR AZTEC

RIG # 124

SPUDDED: DATE 6-2-91

TIME 5:00 p.m.

HOW ROTARY

DRILLING WILL COMMENCE _____

REPORTED BY ROMAN PIERNICK

TELEPHONE # 801-651-3446

DATE 6-4-91 SIGNED TAS

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING
 ENTITY ACTION FORM - FORM 6

OPERATOR PHILLIPS PETROLEUM COMPANY
 ADDRESS P. O. BOX 1967
HOUSTON, TEXAS 77251-1967

OPERATOR ACCT. NO. N 0772

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 →		43-037-3162 ² ₈	RATHERFORD UNIT #11-43	NE SE	11	41S	23E	SAN JUAN	6/3/91	6/3/91
WELL 1 COMMENTS: <i>Indian - Lease Prop. Zone - DSCR</i> <i>Field - Greater Aneth (Entity 6280 added 6-17-91) Jp</i> <i>Unit - Ratherford</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

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

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

(3/89)

RECEIVED

JUN 10 1991

DIVISION OF
 OIL GAS & MINING

G. D. Blacketer
 Signature G. D. Blacketer
 Accounting Director 6/5/91
 Title Date
 Phone No. (713) 669-7913

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. RENVR. 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 660' FEL, 1980' FSL (NE/SE)
At top prod. interval reported below Same as above
At total depth Same as above

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AUG 08 1991
DIVISION OF OIL GAS & MINING

14. PERMIT NO. 43-037-31622 DATE ISSUED _____

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-246-A
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribal
7. UNIT AGREEMENT NAME
SW-I-4192
8. FARM OR LEASE NAME
Ratherford Unit
9. WELL NO.
11-43
10. FIELD AND POOL, OR WILDCAT
Greater Aneth
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 11, T41S, R23E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah

15. DATE SPUNDED 6-2-91 16. DATE T.D. REACHED 6-25-91 17. DATE COMPL. (Ready to prod.) Perf'd 6-25-91 18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* 4472 GL 19. ELEV. CASINGHEAD _____

20. TOTAL DEPTH, MD & TVD 5455' 21. PLUG, BACK T.D., MD & TVD 5455' 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)*
5298' - 5436' Desert Creek 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN 9-24-91 GR-CNL-LDT, REPEAT FORMATION TESTER, MUD LOG, DUAL INDUCTION, BOREHOLE COMPENSATED SONIC 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"	91#, K-55	146'	17-1/2"	200 Sx C1 B, Circ 20 Bbl	
9-5/8"	36#, J-55	1485'	12-1/2"	700 Sx C1 B	
7"	20, 23, 26#	5509'	8-3/4"	(1st Stage) 330 Sx C1 G (2nd Stage) 150 Sx Howco Lite/500 Sx C1 B	

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"	5447'	

31. PERFORATION RECORD (Interval, size and number)
Perf'd w/2 spf
5298' - 5327' - 29'
5338' - 5348' - 10'
5352' - 5372' - 20'
5430' - 5436' - 6'
Total 130 Shots

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5298' - 5436'	264 Bbls 15% gelled HCL @ 2700 psi. 4 BPM. Flushed w/80 Bbls water down casing

33.* PRODUCTION
DATE FIRST PRODUCTION 7-3-91 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping w/RHBC 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
7-8-91	24		→	91	55	11	658
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
45	44	→					

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 7-31-91

*(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	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Distribution:						
5 - BLM, Farmington				Shinarump	2045'	
2 - Utah, Div. of O&G&M				De Chelly	2352'	
1 - The Navajo Nation				Hermosa	4265'	
1 - R. G. Arnim (r) G. R. Young				Ismay	5180'	
1 - D. C. Gill				Gothic	5291'	
1 - V. S. Shaw				Desert Creek	5305'	
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						
1 - Gale Yarrow						

38. GEOLOGIC MARKERS

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

ACCOUNT NUMBER: N0772

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

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AUG 16 1993

REPORT PERIOD (MONTH/YEAR):

6 / 93

DIVISION OF
OIL, GAS & MINING

AMENDED REPORT (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				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

USDA
8-18-93

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

MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

L. B. Sheffield
 BRIAN BERRY
~~Mobil~~
 POB 219031-1807A RENTWR *P.O. DRAWER 6*
 DALLAS TX 75221-9031 *CORTEZ, Co. 81321*

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 7 / 93

AMENDED REPORT (Highlight Changes)

**931006 updated. file*

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	243825	5885			

RECEIVED

SEP 13 1993

DIVISION OF OIL, GAS & MINING

COMMENTS: *PLEASE NOTE ADDRESS change. Mobil ~~ASCO~~ 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: *L. B. Sheffield*

Date: 9/5/93
Telephone Number: 303 565 2212
244 658 2528

WELL #	API#	LEASE #	SEC., T, R	LOCATION OF WELL
✓ 01W-13	43-037-15838	14-20-603-246A	SEC. 1, T41S, R23E	NW/SW 1980 FSL; 660 FWL
✓ 01-14	43-037-31162	14-20-603-246A	SEC. 1, T41S, R23E	SW/SW 660 FSL; 660 FWL
✓ 01W-24	43-037-15939	14-20-603-246	SEC. 1, T41S, R23E	SE/SW 651 FSL; 3300 FEL
✓ 01-34	43-037-16385	14-20-603-246A	SEC. 1, T41S, R23E	SW/SE 4147 FNL; 1980 FEL
✓ 01W-44	43-037-15840	14-20-603-246A	SEC. 1, T41S, R23E	660 FSL; 661 FEL
✓ 02W-44	43-037-16386	14-20-603-246A	SEC. 2, T41S, R23E	SE/SE 810 FNL; 5110' FWL
✓ 03-14	43-037-15124	14-20-603-5445	SEC. 3, T41S, R24E	660 FSL; 660 FEL
✓ 03-12	43-037-15620	14-20-603-6506	SEC. 3, T41S, R24E	SW/NW 2140 FNL; 660 FWL
✓ 03W-42	43-037-16388	14-20-603-6505	SEC. 3, T41S, R24E	SW/NE 1980 FNL; 660 FEL
✓ 03-44	43-037-15031	14-20-603-6504	SEC. 3, T41S, R24E	520 FSL; 820 FEL
✓ 04-14	43-037-16163	14-20-603-5446	SEC. 4, T41S, R24E	500 FSL; 600 FEL
✓ 04-34	43-037-16164	14-20-603-4035	SEC. 4, T41S, R24E	660 FSL; 1980 FEL
✓ 05-34	43-037-15983	14-20-603-368	SEC. 5, T41S, R24E	SW/SE 612 FSL; 1990 FEL
✓ 05W-43	43-037-16392	14-20-603-368	SEC. 5, T41S, R24E	1400 FSL; 990 FEL
✓ 06W-14	43-037-15984	14-20-603-368	SEC. 6, T41S, R24E	SW/SW 660; FSL; 660 FWL
✓ 06W-23	43-037-16393	14-20-603-368	SEC. 6, T41S, R24E	1830 FSL; 1895 FWL
✓ 07-11	43-037-31163	14-20-603-368	SEC. 7, T41S, R24E	NW/NW 660 FNL; 710 FWL
✓ 07W-12	43-037-15985	14-20-603-368	SEC. 7, T41S, R24E	SW/NW 2140 FNL; 585 FWL
✓ 07-13	43-037-31164	14-20-603-368	SEC. 7, T41S, R24E	NW/SW 2110 FSL; 740 FWL
✓ 07W-14	43-037-15986	14-20-603-368	SEC. 7, T41S, R24E	SW/SW 1065 FSL; 660 FWL
✓ 07W-21	43-037-16394	14-20-603-368	SEC. 7, T41S, R24E	710 FNL; 1820 FWL
✓ 07-22	43-037-31165	14-20-603-368	SEC. 7, T41S, R24E	SE/NW 1980 FNL; 1980 FWL
✓ 07W-23	43-037-15987	14-20-603-368	SEC. 7, T41S, R24E	NE/SW 1980 FSL 1980 FWL
✓ 07-24	43-037-31166	14-20-603-368	SEC. 7, T41S, R24E	SE/SW 880 FSL; 2414 FWL
✓ 07W-32	43-037-15988	14-20-603-368	SEC. 7, T41S, R23E	SW/NE 1980 FNL; 1980 FEL
✓ 07-33	43-037-31167	14-20-603-368	SEC. 7, T41S, R24E	NW/SE 2105 FSL; 1876 FEL
✓ 07W-34	43-037-15989	14-20-603-368	SEC. 7, T41S, R24E	710 FSL; 2003 FEL
✓ 07W-41	43-037-15990	14-20-603-368	SEC. 7, T41S, R24E	NE/NE 585 FNL; 770 FEL
✓ 07W43	43-037-16395	14-20-603-368	SEC. 7, T41S, R24E	2110 FSL; 660 FEL
✓ 07-44	43-037-31189	14-20-603-368	SEC. 7, T41S, R24E	SE/SE 737 FSL; 555 FEL
✓ 08-12	43-037-15991	14-20-603-368	SEC. 8, T41S, R24E	SW/NW 1909 FNL; 520 FWL
✓ 08W-14	43-037-15192	14-20-603-368	SEC. 8, T41S, R24E	745 FSL; 575 FWL
✓ 08-21	43-037-15993	14-20-603-368	SEC. 8, T41S, R24E	616 FNL; 1911 FWL
✓ 08-23	43-037-15994	14-20-603-368	SEC. 8, T41S, R24E	NE/NW 1920 FSL; 2055 FWL
✓ 08-32	43-037-15995	14-20-603-368	SEC. 8, T41S, R24E	SW/NE 1980 FNL; 1980 FEL
✓ 08-34	43-037-15996	14-20-603-368	SEC. 8, T41S, R24E	SW/SE 660 FSL; 1980 FEL
✓ 08-41	43-037-15997	14-20-603-368	SEC. 8, T41S, R24E	NE/NE 660 FNL; 660 FEL
✓ 08W-43	43-037-16396	14-20-603-368	SEC. 8, T41S, R24E	1980 FSL; 660 FEL
✓ 09W-23	43-037-16398	14-20-603-5046	SEC. 9, T41S, R24E	NW/SE 1980 FSL; 1980 FWL
✓ 09-12	43-037-15126	14-20-603-5045	SEC. 9, T41S, R24E	1865 FNL; 780 FWL
✓ 09W-21	43-037-16397	14-20-603-5045	SEC. 9, T41S, R24E	660 FNL; 2080 FWL
✓ 09-14A	43-037-15127	14-20-603-5046	SEC. 9, T41S, R24E	710 FSL; 660 FWL
✓ 09-32	43-037-16165	14-20-603-4035	SEC. 9, T41S, R24E	1980 FNL; 1980 FEL
✓ 09W-41	43-037-16399	14-20-603-4035	SEC. 9, T41S, R24E	660 FNL; 660 FEL
✓ 09W-43	43-037-16400	14-20-603-4043	SEC. 9, T41S, R24E	1980 FSL; 660 FEL
✓ 10W-23	43-037-16402	14-20-603-4043	SEC. 10, T41S, R24E	1980 FSL; 1980 FWL
✓ 10-14	43-037-15713	14-20-603-4043	SEC. 10, T41S, R24E	510 FSL; 710 FWL
✓ 10-12	43-037-15712	14-20-603-4043	SEC. 10, T41S, R24E	660 FWL; 1980 FNL
✓ 10W-21	43-037-16401	14-20-603-4043	SEC. 10, T41S, R24E	810 FNL; 1980 FWL
✓ 10-34	43-037-16166	14-20-603-4037	SEC. 10, T41S, R24E	620 FSL; 1860 FEL
✓ 10W-43	43-037-16403	14-20-603-4037	SEC. 10, T41S, R24E	1980 FSL; 550 FEL
✓ 11-41	43-037-31544	14-20-603-246A	SEC. 11, T41S, R23E	NE/NE 860 FNL; 350 FEL
✓ 11-42W	43-037-15841	14-20-603-246	SEC. 11, T41S, R23E	3290 FNL; 4617 FEL
✓ 11-43	43-037-31622	14-20-603-246A	SEC. 11, T41S, R23E	1980 FSL; 660 FEL
✓ 11W-44	43-037-15842	14-20-603-246A	SEC. 11, T41S, R23E	SE/SE 660 FSL; 558 FEL
✓ 12W-11	43-037-15843	14-20-603-246A	SEC. 12, T41S, R23E	NW/NW 678 FNL; 4620 FEL
✓ 12-12	43-037-31190	14-20-603-246A	SEC. 12, T41S, R23E	SW/NW 1850 FNL; 660 FWL
✓ 12W-13	43-037-16404	14-20-603-246A	SEC. 12, T41S, R23E	1980 FSL; 4620 FEL
✓ 12-14	43-037-15844	NA	SEC. 12, T41S, R23E	660 FNL; 4622 FWL
✓ 12-21	43-037-31201	14-20-603-246A	SEC. 12, T41S, R23E	NE/NW 660 FNL; 1980 FWL
✓ 12W-22	43-037-15845	14-20-603-246	SEC. 12, T41S, R23E	NA
✓ 12-23	43-037-15846	14-20-603-246A	SEC. 12, T41S, R23E	1958 FNL; 3300 FWL
✓ 12W-24	43-037-31151	14-20-603-246A	SEC. 12, T41S, R23E	775 FSL; 1980
✓ 12-32	43-037-31203	14-20-603-246A	SEC. 12, T41S, R23E	SW/NE 1820 FNL; 1820 FEL
✓ 12W-33	43-037-15848	14-20-603-246A	SEC. 12, T41S, R23E	NW/SE 1957 FSL; 1981 FEL
✓ 12-34	43-037-31126	14-20-603-246A	SEC. 12, T41S, R23E	SW/SE 675 FSL; 1905 FEL
✓ 12-41	43-037-15849	14-20-603-246A	SEC. 12, T41S, R23E	656 FNL; 660 FEL
✓ 12W-42	43-037-15850	14-20-603-246A	SEC. 12, T41S, R23E	3275 FSL; 662 FEL

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SEP 15 1993

DIVISION OF OIL, GAS & MINING

PAID

PAID PAID

14-20-603-246

SE NW 1920 FNL 2080 FWL

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

<p>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.)</p>		<p>5. LEASE DESIGNATION & SERIAL NO.</p>
<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO TRIBAL</p>
<p>2. NAME OF OPERATOR MOBIL OIL CORPORATION</p>		<p>7. UNIT AGREEMENT NAME RATHERFORD UNIT</p>
<p>3. ADDRESS OF OPERATOR P. O. BOX 633 MIDLAND, TX 79702</p>		<p>8. FARM OR LEASE NAME</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface At proposed prod. zone</p>		<p>9. WELL NO.</p>
<p>14. API NO.</p>		<p>10. FIELD AND POOL, OR WILDCAT GREATER ANETH</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.)</p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</p>
<p>12. COUNTY SAN JUAN</p>		<p>13. STATE UTAH</p>

RECEIVED

SEP 13 1993

DIVISION OF
OIL, GAS & MINING

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

NOTICE OF INTENTION TO:

- | | |
|--|---|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | MULTIPLE COMPLETE <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> |
| (Other) <input type="checkbox"/> | |

SUBSEQUENT REPORT OF:

- | | |
|--|--|
| WATER SHUT-OFF <input type="checkbox"/> | REPAIRING WELL <input type="checkbox"/> |
| FRACTURE TREATMENT <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| (Other) <u>CHANGE OF OPERATOR</u> <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.

18. 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



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

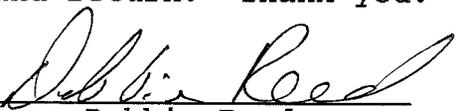
Re: Phillips, Ratherford #11-43
Sec. 11-T41S-R23E
San Juan County, Utah

43-037-31622
pow

Please find enclosed the following logs:

- 1 Dual Induction-SFL ✓
- 1 Compensated Neutron-Litho-Density ✓
- 1 Borehole Compensated Sonic Log ✓
- 1 Repeat Formation Tester ✓
- 1 Mudlog ✓

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


Debbie Reed
Geological Clerk

Received By: LLC

Date: 9-25-91

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SEP 24 1991

DIVISION OF
OIL GAS & MINING

Sept 29, 1993

TO: Lisha Cordova - Utah Mining
Oil & Gas

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

Here is copy of Rotherford Unit
Successor Operator.

4 pages including this one.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

RECEIVED
BLM

DESIGNATION OF OPERATOR

JUN 27 11:44

070 FARMINGTON, NM

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

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

and, pursuant to the terms of the Ratherford 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 Ratherford 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 Ratherford 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 Ratherford 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. [Signature]
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 _____
(Location) Sec ___ Twp ___ Rng ___
(API No.) _____

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

Other
OPERATOR CHANGE

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. REC'D 7-31
2. DES 8-11
3. VLC
4. RJE
5. JEC
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: **SEE ATTACHED**	API: <u>4303731622</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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
14-20-603-246A

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation
RATHERFORD UNIT

8. Well Name and No.
#11-43

9. API Well No.
43-037-31622

10. Field and Pool, or Exploratory Area
Greater Aneth

11. County or Parish, State
SAN JUAN, UT

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
MOBIL OIL CORPORATION

3. Address and Telephone No.
P.O. BOX 633, MIDLAND, TX 79702 (915)688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980'FSL, 600'FEL SEC.11, T41S, R23E

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

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 2-2-94 MIRU. NU BOP
- 2-3-94 BAIL TO 5455' (NO FILL) PERF W/ 4SPF 5298-5335, 5352-5327
- 2-4-94 PUMP 5000 GALS 15% HCL + ADDITIVES. flush tbg 7 ANNULUS W/BFW
- 2-5-94 PUMP 1000 GALS XYLENE 2000 GALS 15% HCL 1500 GALS 2# PPG SALT DIVERT 3000 GALS 15% HCL 1000 GALS XYLENE. MAX PRESS 600 PSI. SWAB
- 2-6-94 RIH W/ TBG. SET TAC @5225 SN @ 5211 ND BOP. RDMO

MAR 10 1994
 SPECIAL AGENT

I hereby certify that the foregoing is true and correct

Signed Shirley Todd SHIRLEY TODD Title ENV. & REG. TECH Date 3-5-94

This space for Federal or State office use

Approved by _____ Title _____
Conditions of approval, if any: for credit

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.

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

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

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 6 / 95

AMENDED REPORT (Highlight Changes)

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

COMMENTS: _____

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

Date: _____

Name and Signature: _____

Telephone Number: _____

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 RJ 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

Routing:

1- LVC	7-PL
2-LWP	8-SJ
3- DB	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 & 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>037-31620</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- LWP 6. Cardex file has been updated for each well listed above. 8-31-95
- LWP 7. Well file labels have been updated for each well listed above. 9-28-95
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 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).
- 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!*

- 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

- 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. *DTS 8/5/95*
- 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 19 95.

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!

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

RECEIVED
APR 11 1996

5. Lease Designation and Serial No.
14-20-603-246A

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. Unit or CA, Agreement Designation
RATHERFORD UNIT

8. Well Name and No.
11-43

9. API Well No.
43-037-31622

10. Field and Pool, or exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN UT

1. Type of Well
 Oil Well Gas Well Other **SIDETRACK**

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**1980' FSL, 660' FEL
SEC. 11, T41S, R23E**

DIV. OF OIL, GAS & MINING

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

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

BOTTOM HOLE LOCATIONS
LATERAL 1 (UPPER SE) 945'S & 1166 E OF SURFACE LOCATION
LATERAL 2 (LOWER SE) 1132'S & 984' E OF SURFACE LOCATION

SEE ATTACHED PROCEDURE

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

Signed *Shirley Robertson* Title ENV. & REG. TECHNICIAN Date 4-8-96

(This space for Federal or State office use)

Approved by *[Signature]* Title Production Engineer Date 4/12/96

Conditions of approval, if any:

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

* See Instruction on Reverse Side

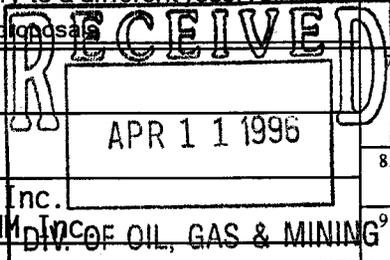
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE



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

5. Lease Designation and Serial No.
14-20-603-246A

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

If Unit or CA, Agreement Designation
RATHERFORD UNIT

8. Well Name and No.
11-43

9. API Well No.
43-037-31622

10. Field and Pool, or exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN UT

1. Type of Well
 Oil Well Gas Well Other SIDETRACK

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FSL, 660' FEL
SEC. 11, T41S, R23E

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

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

BOTTOM HOLE LOCATIONS
LATERAL 1 (UPPER SE) 945'S & 1166 E OF SURFACE LOCATION
LATERAL 2 (LOWER SE) 1132'S & 984' E OF SURFACE LOCATION

SEE ATTACHED PROCEDURE

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

Signed Shirley Robertson Title ENV. & REG. TECHNICIAN Date 4-8-96

(This space for Federal or State Office Use)
Approved by [Signature] Title Section Engineer Date 4/12/96
Conditions of approval, if any.

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

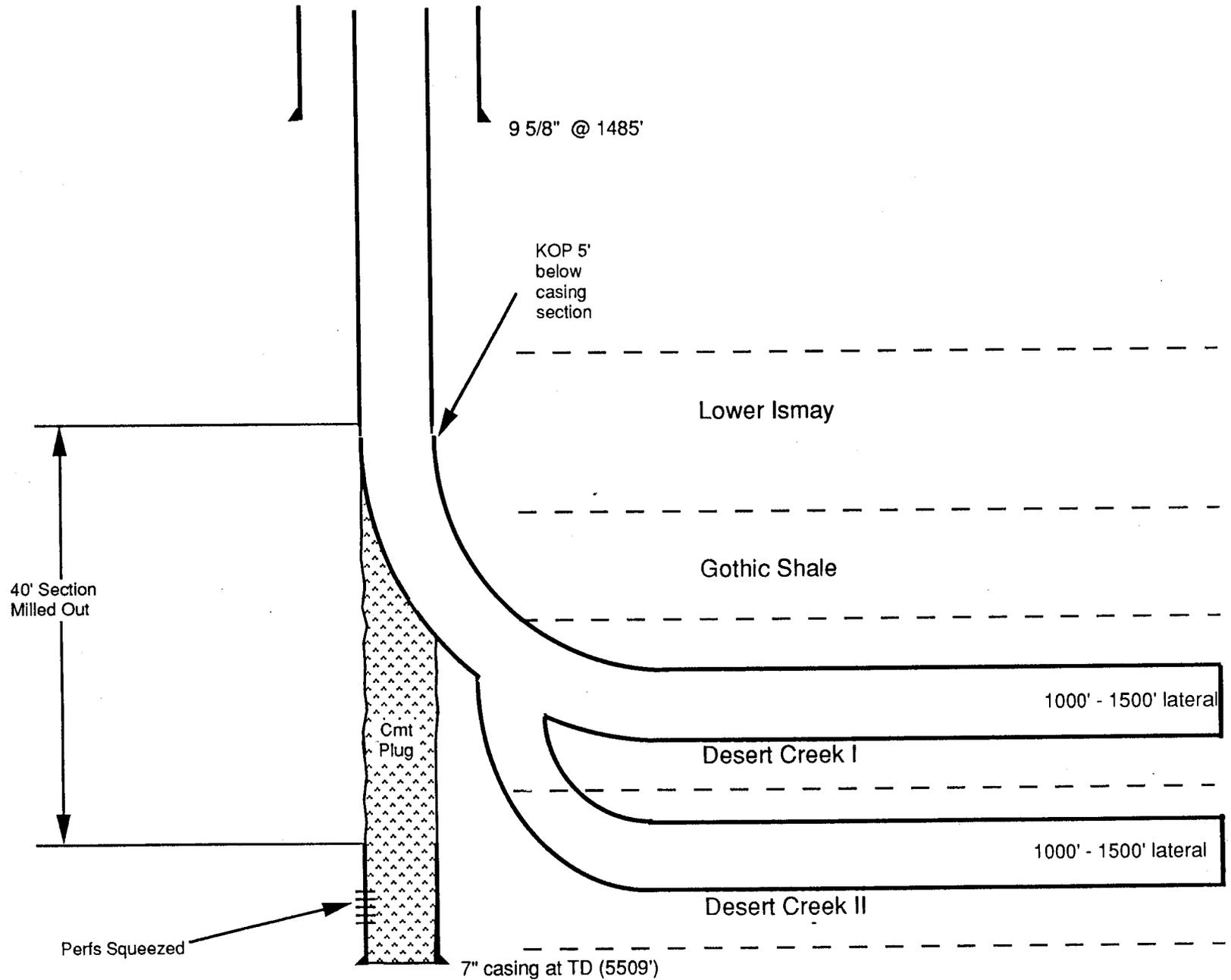
**Ratherford Unit Well No.'s
11-43, 12-23, 13-12, 13-14, 13-21 & 24-41
Multi-lateral Horizontal Drilling Procedure**

The objective of this procedure is to prepare this wellbore for sidetracking, sidetrack the subject well and drill a short radius horizontal well with a multiple (1,000' - 1,500') laterals.

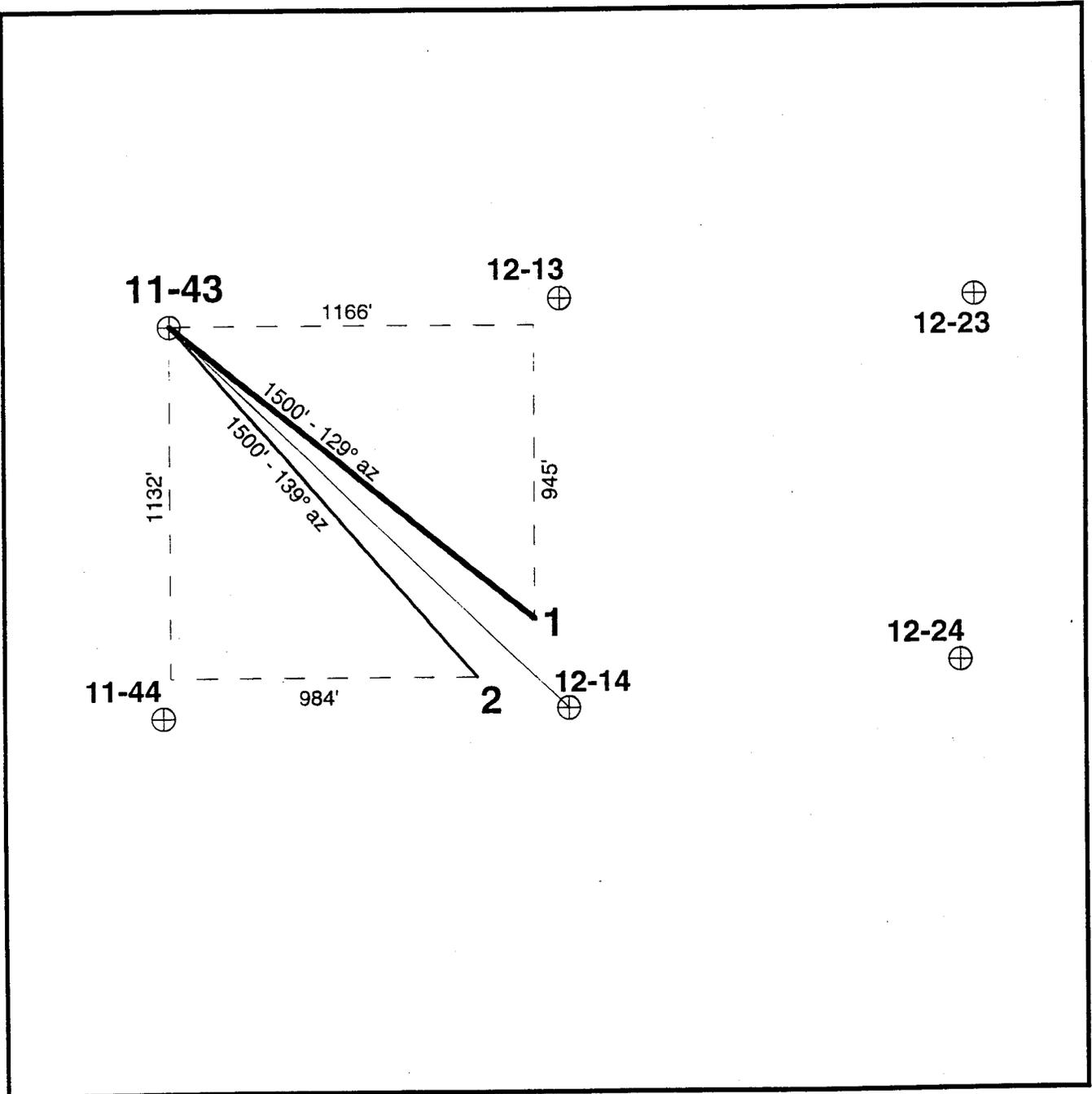
1. Prepare location and dig working pit.
2. MIRU DDPU (daylight workover rig), reverse unit and H2S equipment.
3. TOH and LD rods.
4. ND wellhead, release TAC, and NU BOPs.
5. TIH with full gauge bit and casing scraper to PBTD. TOH with bit and scraper.
6. Attempt to load hole, if hole will not load, pump LCM pills until the well will circulate. POOH.
7. TIH with 4 1/2" section mill dressed with cutter arms for casing size. Cut a 40' section with the top of the section 50' to 100' above the top of the Desert Creek Formation. Circulate the hole clean and TOH with section mill.
8. TIH with 10 jts 2 3/8" tubing on 2 7/8" DP to TD. Circulate the well until static and free of oil and gas. Spot a balanced cement kick-off plug. TOH with workstring. WOC a minimum of 12 hours.
9. TIH with bit and dress off cement plug to the kick off point (3' - 5' below the casing section). POOH.
10. Release workover rig.
11. MIRU 24 hour DDPU with drilling package.
12. PU curve drilling assembly and TIH on 2 7/8" DP to PBTD.
13. RU power swivel and wireline. Gyro survey wellbore and seat gyro in orienting sub.
14. Sidetrack wellbore using gyro orientation. Switch to Magnetic steering tool when free of magnetic interference from casing.
15. Drill curve section using steering tool for orientation. POOH and LD curve drilling motor.
16. PU lateral drilling motor and new bit.
17. TIH with lateral drilling assembly. Steer assembly as necessary with steering tool to reach target. Make bit trips as necessary. Circulate wellbore clean and POOH.

18. Drill additional laterals by sidetracking out of the original curve with a lateral motor. Steer assembly as necessary with steering tool to reach target. Make bit trips as necessary. Circulate wellbore clean and POOH.
19. Complete well as per operations Engineering.

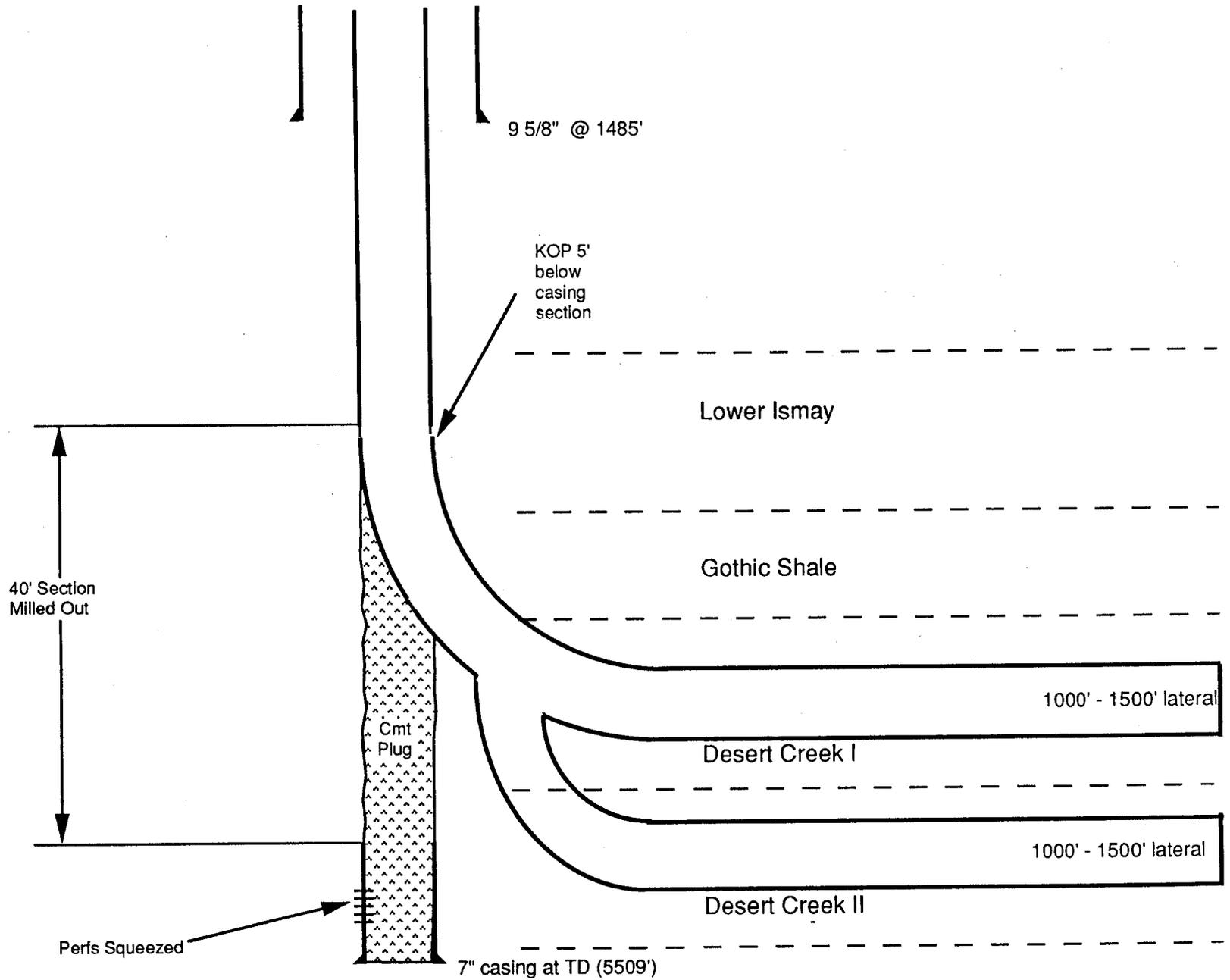
PROPOSED CONDITION RATHERFORD UNIT #11-43 HORIZONTAL MULTILATERAL



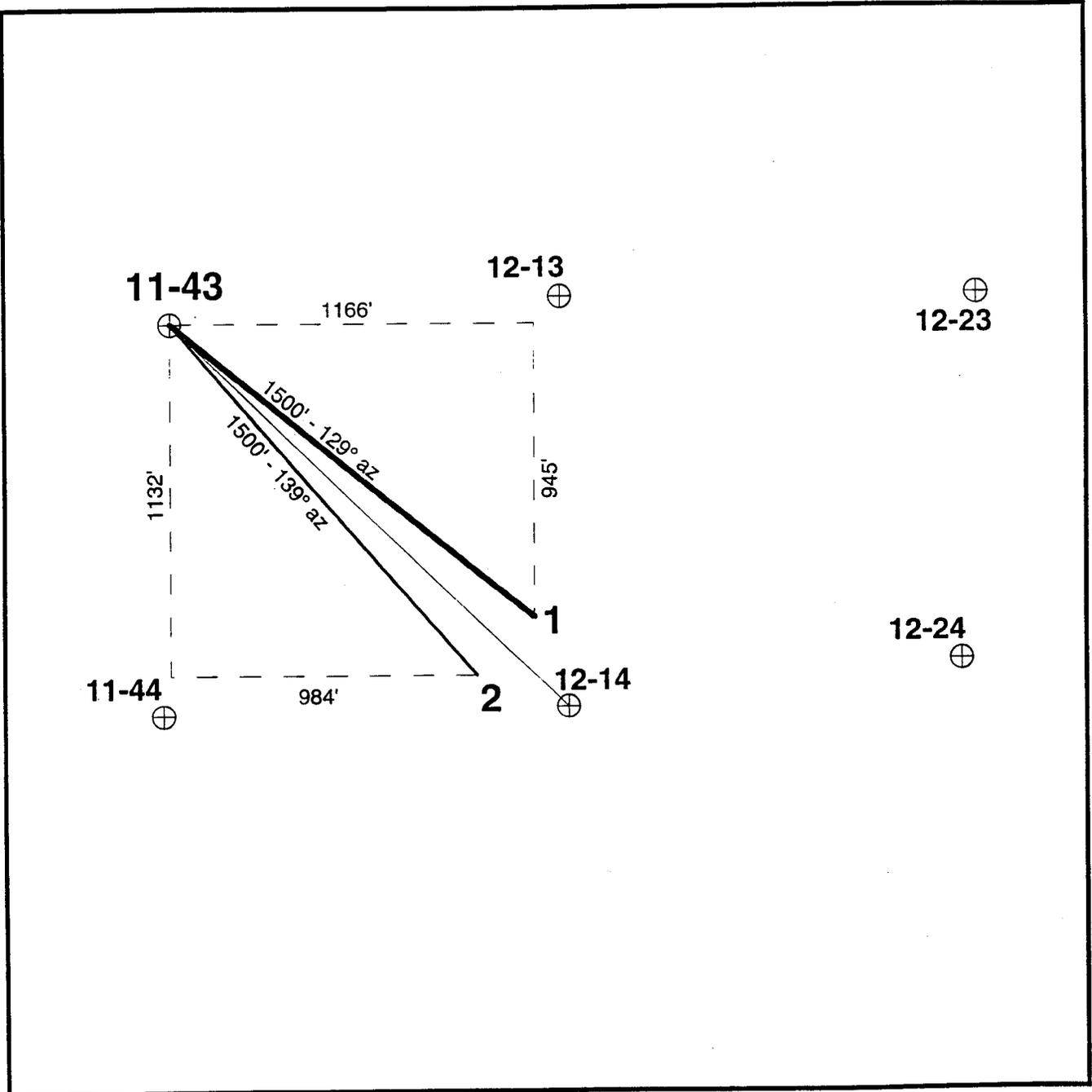
Ratherford Unit 11-43 Horizontal Well Design



PROPOSED CONDITION RATHERFORD UNIT #11-43 HORIZONTAL MULTILATERAL



Ratherford Unit 11-43 Horizontal Well Design



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/11/96

API NO. ASSIGNED: 43-037-31622

WELL NAME: RU 11-43 (MULTI-LEG) REENTRY
 OPERATOR: MOBIL EXPL & PROD (N7370)

PROPOSED LOCATION:
 NESE 11 - T41S - R23E
 SURFACE: 1980-FSL-0660-FEL
 BOTTOM: 1035-FSL-1826-FEL
 SAN JUAN COUNTY
 GREATER ANETH FIELD (365)

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

LEASE TYPE: IND
 LEASE NUMBER: 14-20-603-246A

PROPOSED PRODUCING FORMATION: DSCR

RECEIVED AND/OR REVIEWED:

Plat

Bond: Federal[] State[] Fee[]
 (Number _____)

Potash (Y/N)

Oil shale (Y/N)

Water permit
 (Number _____)

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

LOCATION AND SITING:

R649-2-3. Unit: Ratherford

R649-3-2. General.

R649-3-3. Exception.

Drilling Unit.
 Board Cause no: _____
 Date: _____

COMMENTS: Reentry.

STIPULATIONS: _____



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

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

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

April 12, 1996

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

Re: Ratherford Unit 11-43 (Re-entry) Well, 1980' FSL, 660' FEL,
NE SE, Sec. 11, T. 41 S., R. 23 E., San Juan County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-31622.

Sincerely,

R. J. Firth
Associate Director

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



Operator: Mobil Exploration & Producing U.S, Inc.

Well Name & Number: Ratherford Unit 11-43 (Re-entry)

API Number: 43-037-31622

Lease: 14-20-603-246A

Location: NE SE **Sec.** 11 **T.** 41 S. **R.** 23 E.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT - " for such proposals

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14-20-603-246A

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 11-43

9. API Well No.

43-037-31622

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other **SIDETRACK**

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**1980' FSL, 660' FEL
SEC. 11, T41S, R23E**

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

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

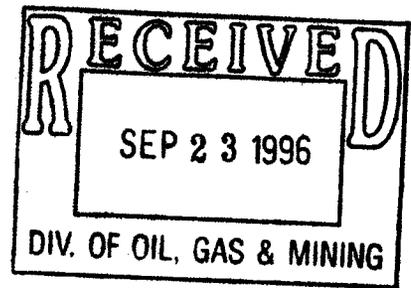
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 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other **SIDETRACK**
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 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

**LATERAL #1 108' SOUTH & 245' EAST OF SURFACE LOCATION.
LATERAL #2 588' SOUTH & 871' EAST OF SURFACE LOCATION.
LATERAL #3 212' SOUTH & 229' EAST OF SURFACE LOCATION.
LATERAL #4 873' SOUTH & 936' EAST OF SURFACE LOCATION.**

SEE ATTACHMENT



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

Signed Shirley Roach Title ENV. & REG. TECHNICIAN Date 9-16-96

(This space for Federal office use)
Approved by [Signature] Title Petroleum Engineer Date 9/30/96
Conditions of approval, if any:

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

**ATTACHMENT - FORM 3160-5
 RATHERFORD UNIT - WELL #11-43
 14-20-603-246A
 NAVAJO TRIBAL
 SAN JUAN, UTAH**

5-22-96 MIRU BIG A WELL SERVICE, UNSEAT PUMP--LD RODS--MOVE OFF PUMPING UNIT.

5-24-96 RU WL-RUN GR/CCL LOG F/5440-5200-MADE 20'; SET CIBP @5295-RD WL. TIH OE TAG CIBP @ 5296, LOAD & TEST CSG-TIH OE-DISPLACE HOLE W/MUD

5-25-96 TIH W/SEC. MILL, TAG CIBP @ 5295, MILL SECT F/5235-5248, CIRC.

5-26-96 MILL CUT SECTION F/5235-5271, CIRC CLEAN.

5-28-96 DISPLACE HOLE W/FW-TOOH-W/SEC MILL-TIH W/MAGNET.

5-29-96 TIH W/6" MAGNET-TOOL STOPS @5271, BTM WINDOW-TOH-TIH W/TAPERED MILL-MILL TO 5295, CIRC CLEAN.

5-30-96 TIH OE-TAG @ 5283' RU DS-SPOT 50 SX CL G-.6% D65-17#/GAL - AT 5295-PULL ABOVE PLUG-REV OUT 1BBL CMT (SET CMT KICKOFF PLUG)

5-31-96 RDMODDPU.

6-01-96 MIRU BIG A 25-RU GAS SEPERATOR; TAG CMT @ 5151, DRLG CMT TO 5218.

6-02-96 RU WL-RUN GR/CCL LOG F/DEPTH-DRLG CMT 5240' PLUG-TRIP F/MOTOR-RUN GYRO TIME DRLG CURVE-5240-5368.

6-03-96 TIH W/LATERAL MTR-DRLG LATERAL 5368-5536.

6-04-96 DRILL LATERAL TO 5582, POH, RIH W/FISHING TOOL/CAUGHT FISH.

6-05-96 SIDETRACK @ 5365; TIME DRILL, FM 5365-5694.

6-06-96 CONTINUE LATERAL DRILL TO 5705--SLIDE DRILL & ROTATE TO 5760.

6-07-96 CONTINUE DRILLING LATERAL TO 5999'/NEW MUD MOTOR

6-08-96 ROTATE & SLIDE DRILL TO 6360

6-09-96 ROTATE & SLIDE DRILL TO 6375'/ TD BTM LATERAL.
 DRILL START SIDTRACT FM 5275-79, DRILL CURVE FM 5279-5363

6-10-96 CONTINUE DRLG CURVE TO 5394--ROTATE & SLIDE DRILL TO 5600

6-11-96 DRILL TO 5612, STOPPED DRILL, RIH & DRILL TO 5644, UNABLE TO SLIDE DRILL, NO PAY ZONE, PULLED UP & TIME DRILLED 5550-5555,
 ATTEMPTING TO SIDTRACT LATERAL HOLE @ 5312 TVD.

6-12-96 TIME DRILLED & ATTEMP SIDE TRACK LATERAL 5555-5559 / NO SUCCESS
 TIME DRILLED 5394-5401 & SIDE TRACKED UPPER LATERAL, ROTATE & SLIDE DRILL UPPER LATERAL FROM 5401-5771.

6-13-96 CONTINUE LATERAL

6-15-96 ROTATE & SLIDE DRILL UPPER LATER TO 6610' TOTAL DEPTH.
 REL BECFIELD, RIH W/7" RBP & 3 1/2" DP, SET RBP @ 4467.
 PRESSURE TESTED TO 1000# / HELD OK.

COMPLETION

6-17-96 MIRU NWI RIG #36, SPOT TBG FLOAT, REL RBP POH W/2.875" TBG & BP.

6-18-96 RIH W/2.875" BENT JT, 2 MONEL DCS, 2.875" PH6 TBG, 7"PKR TO 5433',
 HH WL CO RAN SPERRY-SUN SINGLE SHOT SURVEY.

6-19-96 TBG DOWN HOLE 30", RAN SURVEY, 3RD HOLE, 90 DEG INC, 142AZ @5387,
 PUH & SET PKR @5067, EOT @ 5433.

6-21-96 MIRU DOWELL COIL TBG & ACID EQUIP. RIH W 1 1/4" PERF CLEAN TOOL
 ON 1 1/4" COIL TBG TO 5644', ACIDIZED DESERT CREEK POROSITY
 5450-5580' W/2000 GALS 15% HCL @ 3/4 BPM, POH W/COIL TBG,
 ND BOP SW 8 BNO 56 BLW IN 3 HRS.

6-22-96 REL PKR, POH TO 5240', FIND LATERAL #4, RIH EOT 5433', RAN SPERRY-
 SUN SINGLE SHOT & SURVEY, SET PKR @5067, EOT 5433'.

6-23-96 RIH W/1 1/4" COIL TBG SET DOWN @5644', LATERAL #3, REL PKR, PUH
 TO 5200', ROTATE 180 DEG., LOCK BLOCKS, RIH TO 5433, WO/SURVEY.

6-24-96 W/O SURVEY

6-25-96 POH LD ORIENTING SUB. LOCATE LATERAL #4, TIH W/DS 1 1/4" CT TO
 6450' TBG IS IN LATERAL #4.

DESERT CREEK LATERALS, 5240-5582, 5275-5644', 5365-6375', 5394-6610',

ATTACHMENT - FORM 3160-5
RATHERFORD UNIT - WELL #11-43
14-20-603-246A
NAVAJO TRIBAL
SAN JUAN, UTAH
PAGE 2

6-26-96 RU DS CTU & ACID PUMP EQUIP, ACIDIZE 4TH LATERAL W/16,000 GALS,
15% HCL @ .8-1 BPM, 3500 TO 4300 PSI WHILE PUMPING.
6-27-97 TAG FLUID @ 3600' W/FLUID LEVEL UP TO 1200' ON 4TH RUN. WELL
FLOWING. REC 20 BBLS OIL/WATER. FLOW WELL 48/64 CK. REC. 23BBLS IN
2 HRS., WELL DIED; SWAB FROM 4700', 27 RUNS, REC 85 BBLS LOAD &
OIL. LOTS OF TAIL GAS W/LOTS OF SOLIDS IN FLOW. APPROX 50% + OIL/
WATER CUT.
6-28-96 WORK TBG FROM 5210' TO 5644'/ATTEMPT/LOCATE/ENTRANCE/LATERAL #2.
6-29-96 MANIPULATING TBG TO LOCATE ENTRANCE TO LATERAL #1 & #2
6-30-96 WORKING TBG ACROSS INTERVAL/ENTRANCE TO LATERAL #2
7-01-96 CONTINUE WORKING TBG ACROSS INTERVAL / ENT. TO LATERAL #2
7-02-96 BLEED GAS, POOH STD BACK TBG & PKR, CUT 12' OFF BENT JT, CLEAN
LOCATION, WO/SDI.
7-03-96 CUT & REBEND BTM JT., RIH W/TBG TO 5138', RU SDI. TIH LOCATE IN
SUB @ 5121', DROP TO 5365' & TBG SET DOWN, POH, SDFN& HOLIDAY.
7-05-96 WORKING TBG, INSTALL SDI WET CONNECT, / ENTRANCE TO LATERAL #2.
7-06-96 RIH W/GR/CCL TOOLS TO 5250', RUN GR/CCL 5247'-5100'
7-07-96 TIH W/MUD ANCHOR, PERF NIPPLE, SN, TBG ANCHOR & TBG TO 5327'
LAND TBG & ND BOP, RIH W/2" x 24' PUMP & RODS, INSTALL STUFFING
BOX, SPACE OUT PUMP, TEST PUMP TO 500 PSI, SDFN.
7-08-96 TURN WELL OVER TO PRODUCTION TO RU PUMP JACK & TEST WELL.
7-29-96 MIRU PU & SUPPORT EQUIP., POOH WITH RODS & PUMP, RELEASE TAC &
POOH W/ 2 7/8 PROD EQUIP.
7-30-96 PU BIT, MOTOR, PH6, DC'S & 2 7/8 TBG. TO 5100. RAN PROBE & SET,
CUT & SET WET CONNECT.
7-31-96 WORK 2.12 DEGREE MOTOR @ 5268, / LATERAL #2, RAN GR/CORR. LOG.
8-01-96 CIH TO ROCKET SUB @ 5136', PROBLEM W/STEERING TOOL.
8-02-96 RU STEERING TOOL. TIME DRILL FROM 5250-5265 (LATERAL #3)
8-03-96 TIME DRILL FROM 5240-5273 WITH LEFT HAND TORQUE, LOST TORQUE
@ 5273 (FELL INTO LATERAL #3). PULL WET CONNECT.
8-04-96 RAN WET CONNECT, CONTINUE IN HOLE 5250-5268/TIME DRILL 5268-
5290. SIDETRACK OFF LEG #3 @ 5290-5295.
8-05-96 SET PKR. @ 5170'. LOAD & PRESSURE TEST ANNULUS TO 500# OK.
TAILPIPE @ 5260.
8-06-96 ACIDIZE LATERALS W/20,000 GALS 15% ACID & ROCK SALT AS DIVERTER.
8-07-96 POOH LAYING DOWN WS & PKR. RIH WITH PRODUCTION EQUIPMENT,
2 7/8" X 4' PERF. SUB, SN, 2 7/8" TBG, 7" TAC, SET TAC @ 5078,
W/18000# TENSION. SN @ 5200' BTM, OF MA @ 5236'. RIH W/
2 1/2" X 2" X 24' PUMP. TURN WELL ON.
8-08-96 RIG DOWN PULLING UNIT AND MOVE OUT.



Mobil

Drawn By: BEB

Checked By: JSJ

Date: 7/11/88

**HORIZONTAL
PROJECTION**

The Surface Location
on this drawing is represented
by the coordinate 0,0

Lower Lines and Hurd Lines
are shown in relation to
the Surface Location

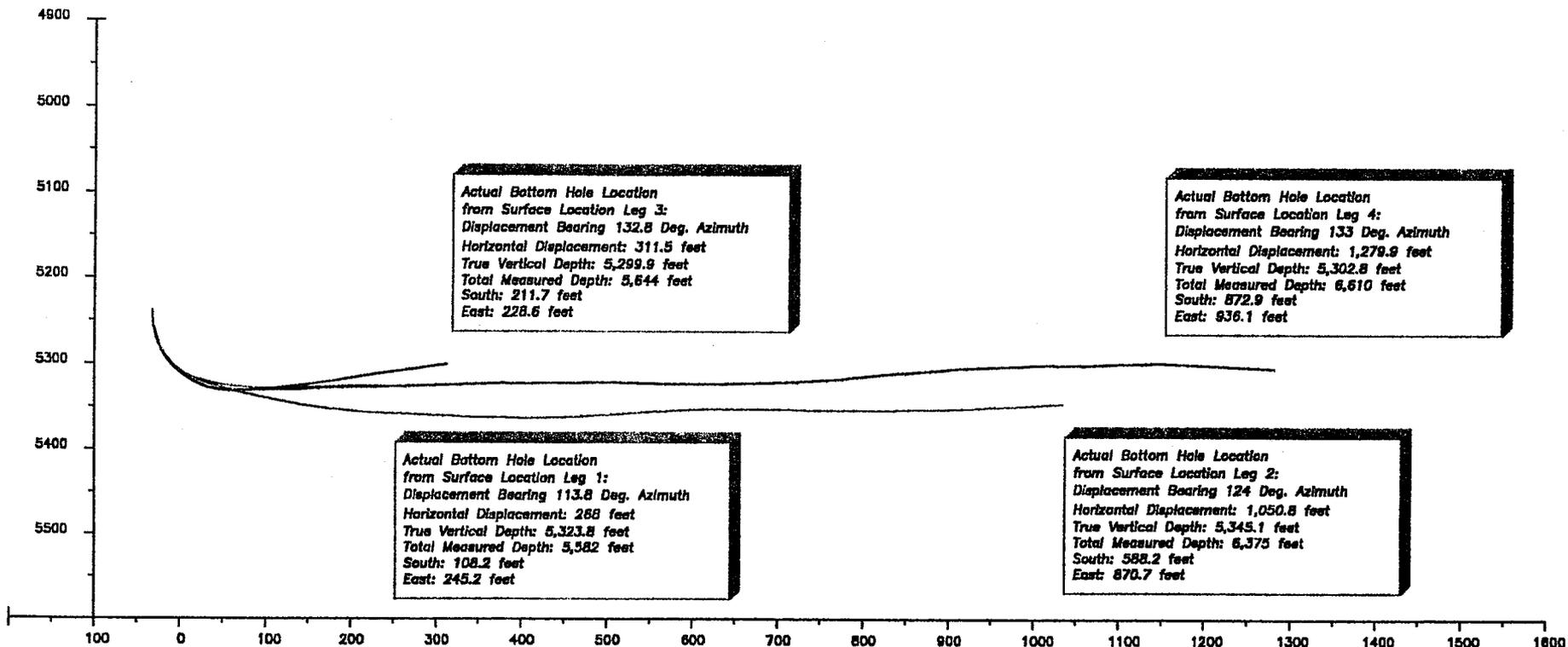
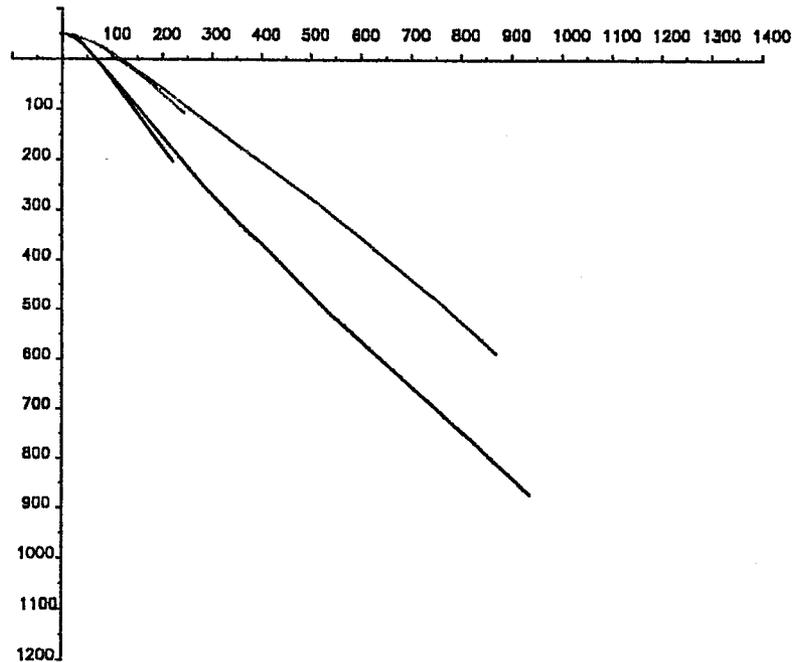


Magnetic Dec.: 12.3° E

MOBIL EXPL & PROD

RATHERFORD UNIT NO. 11-43

SAN JUAN, COUNTY



STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING
 ENTITY ACTION FORM - FORM 6

OPERATOR MOBIL EXPLORATION & PRODUCING U.S.
 ADDRESS P. O. BOX 633
MIDLAND, TX 79702

OPERATOR ACCT. NO. N 7370

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	06280	43-037-31622	RATHERFORD UNIT #11-43	NESE	11	41S	23E	SAN JUAN	5-22-96	8-8-96
WELL 1 COMMENTS: Entity added 9-27-96. Lee											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

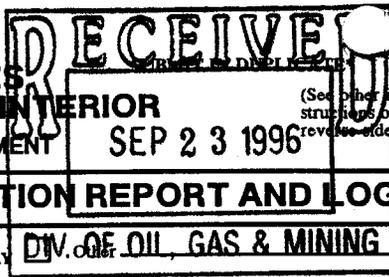
- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
 - B - Add new well to existing entity (group or unit well)
 - C - Re-assign well from one existing entity to another existing entity
 - D - Re-assign well from one existing entity to a new entity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

NOTE: Use COMMENT section to explain why each Action Code was selected.
 (3/89)

RECEIVED
 SEP 23 1996
 DIV. OF OIL, GAS & MINING

Shirley Robertson
 Signature SHIRLEY ROBERTSON
 ENV. & REG TECH 9-16-96
 Title Date
 Phone No. (915) 688-2585

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY **DIV. OF OIL, GAS & MINING**

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

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

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **1980' FSL, 660' FEL**
At top prod. interval reported below **SEE ATTACHED EXHIBIT "A"**
At total depth

14. PERMIT NO. DATE ISSUED
04-12-96

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-246A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO TRIBAL

7. UNIT AGREEMENT NAME
RATHERFORD UNIT

8. FARM OR LEASE NAME, WELL NO.
RATHERFORD 11-43

9. API WELL NO.
43-037-31622

10. FIELD AND POOL, OR WILDCAT
GREATER ANETH

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SEC. 11, T41S, R23E

12. COUNTY OR PARISH **SAN JUAN**
13. STATE **UTAH**

15. DATE SPUNDED **05-22-96**
16. DATE T.D. REACHED **06-15-96**
17. DATE COMPL. (Ready to prod.) **08-08-96**
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **4472.5 GR**
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **EXHIBIT "A"**
21. PLUG, BACK T.D., MD & TVD **EXHIBIT "A"**
22. IF MULTIPLE COMPL., HOW MANY* **4**
23. INTERVALS DRILLED BY **X** ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
5240-6610 (SEE EXHIBIT "A")
25. WAS DIRECTIONAL SURVEY MADE **YES**

26. TYPE ELECTRIC AND OTHER LOGS RUN **GR/CCL**
27. WAS WELL CORED **NO**

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8	91#	146'	17 1/2	200 SX CIRC	
9 5/8	36#	1485'	12 1/4	700 SX CIRC	
7	23# & 26#	5509'	8 3/4	980 SX - 1360' TOC	

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	5236'	5078'

31. PERFORATION RECORD (Interval, size and number)
DESERT CREEK LATERALS 5240-5582, 5275-5644
5365-6375, (5394-6610' LATERAL #4)
(5268-5644' LATERAL #3)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5295' KOP	SPOT 50 SX CL G.6% 17#/GAL
5450-5580'	2000 GALS 15% HCL
4TH LATERAL	16000 GALS 15% HCL
ALL LATERALS	20000 GALS 15% ACID

33.* PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) WELL STATUS (Producing or shut-in)
2 1/2" X 2" X 24' PUMP

DATE OF TEST **9-11-96** HOURS TESTED **21** CHOKER SIZE PROD'N. FOR TEST PERIOD **158** OIL - BBL. **70** GAS - MCF. **31** WATER - BBL. **443** GAS - OIL RATIO

FLOW. TUBING PRESS. **100** CASING PRESSURE **60** CALCULATED 24-HOUR RATE OIL - BBL. GAS - MCF. WATER - BBL. OIL GRAVITY - API (CORR.)

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

35. LIST OF ATTACHMENTS
DIRECTIONAL SURVEY REPORT & EXHIBIT "A"

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Shirley Houchins TITLE **ENV. & REG. TECHNICIAN** DATE **9-16-96**

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



Mobil

Drawn By: SEB

Checked By: JBJ

Date: 7/11/88

**HORIZONTAL
PROJECTION**



The Surface Location
on this drawing is represented
by the coordinates U.S.

Locate Lines and Hand Lines
are drawn in relation to
the Surface Location

Magnetic Dec.: 12.3° E

MOBIL EXPL & PROD

RATHERFORD UNIT NO. 11-43

SAN JUAN, COUNTY

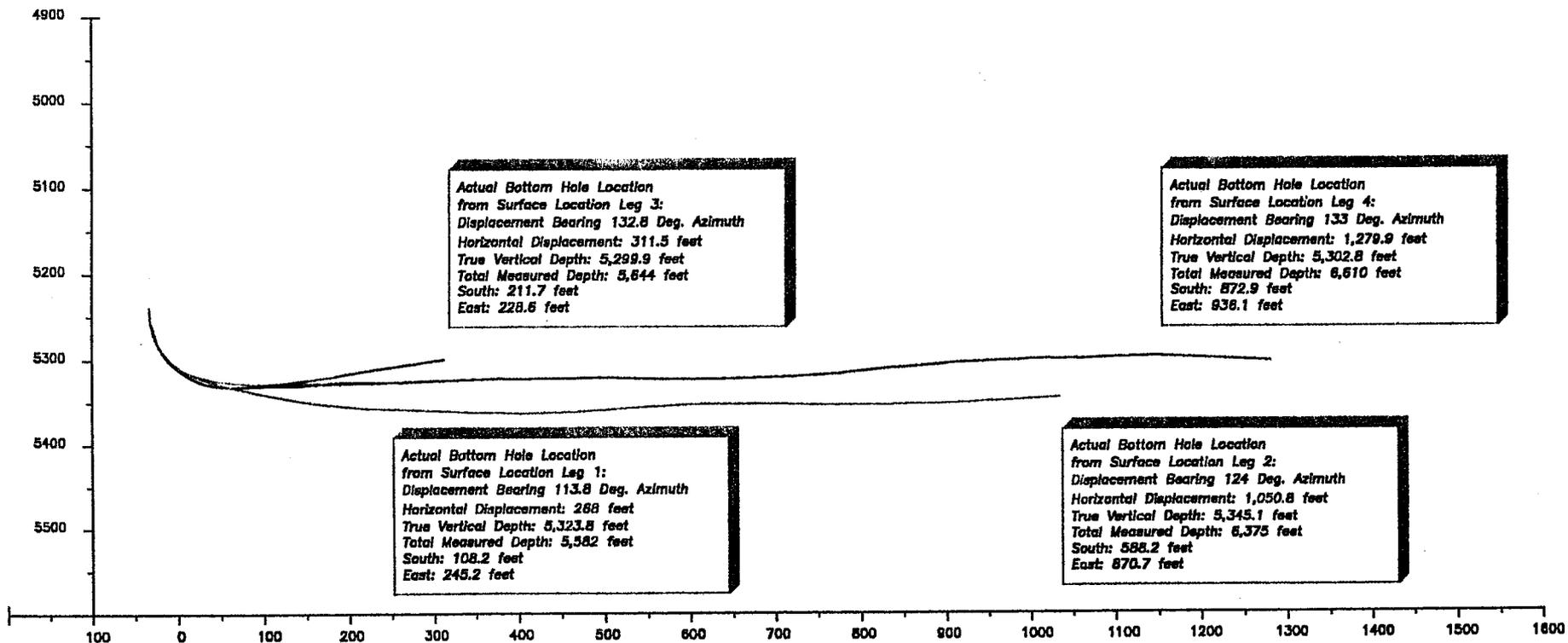
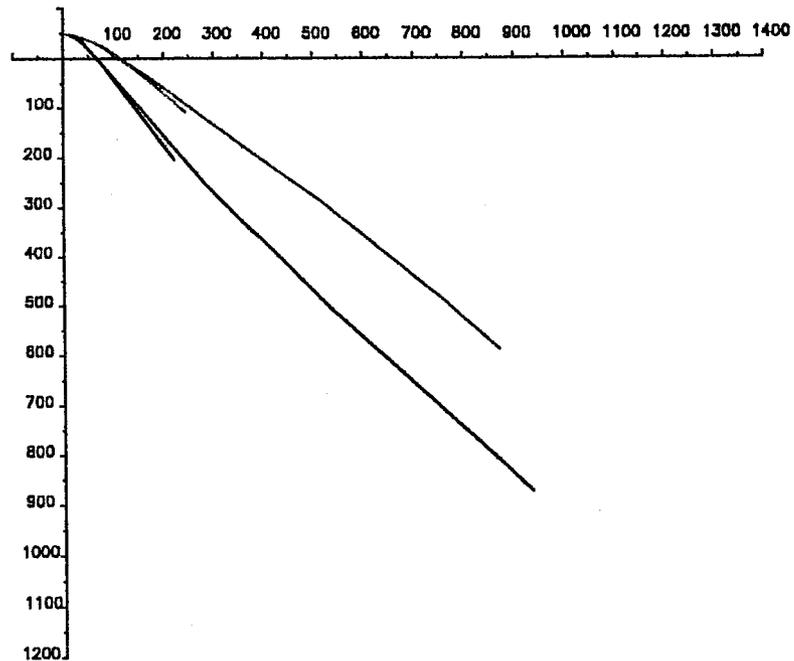


EXHIBIT "A"



Mobil

Drawn By: BSB

Checked By: JMJ

Date: 7/11/88

**HORIZONTAL
PROJECTION**



The Surface Location
on this drawing is represented
by the coordinates 430

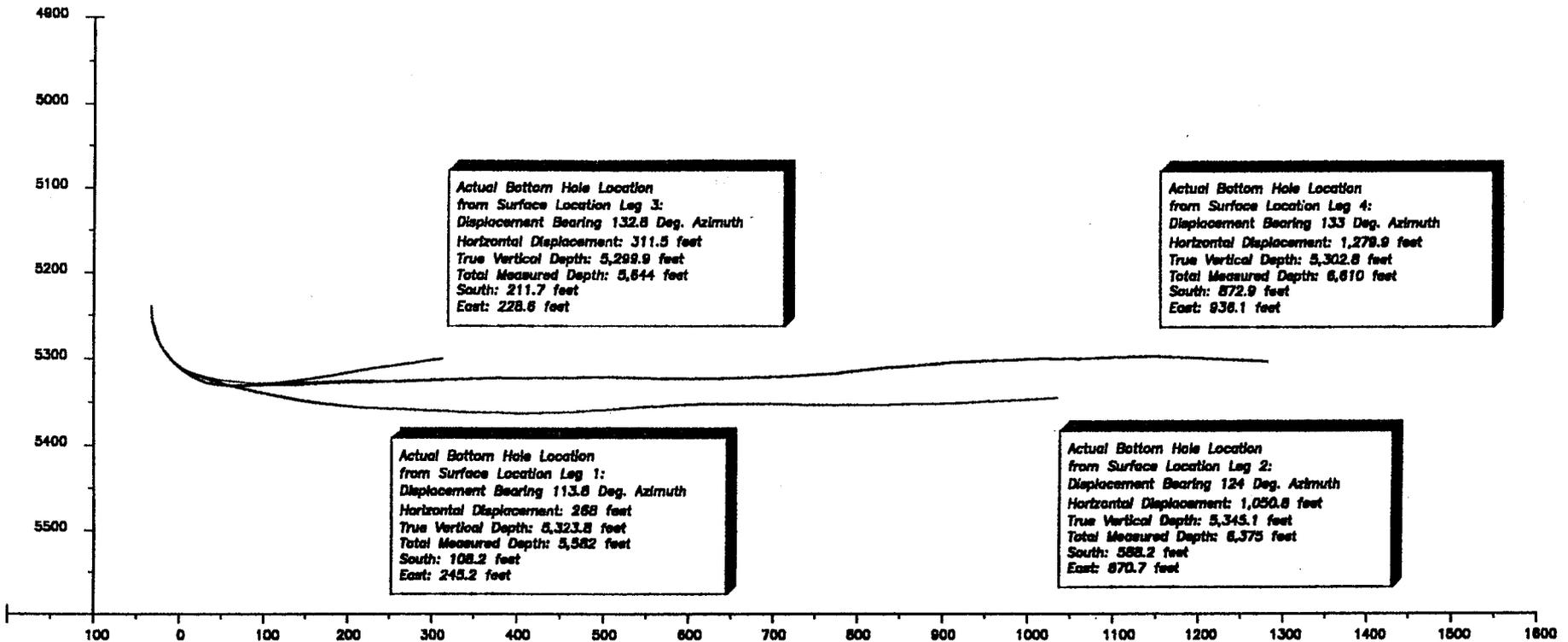
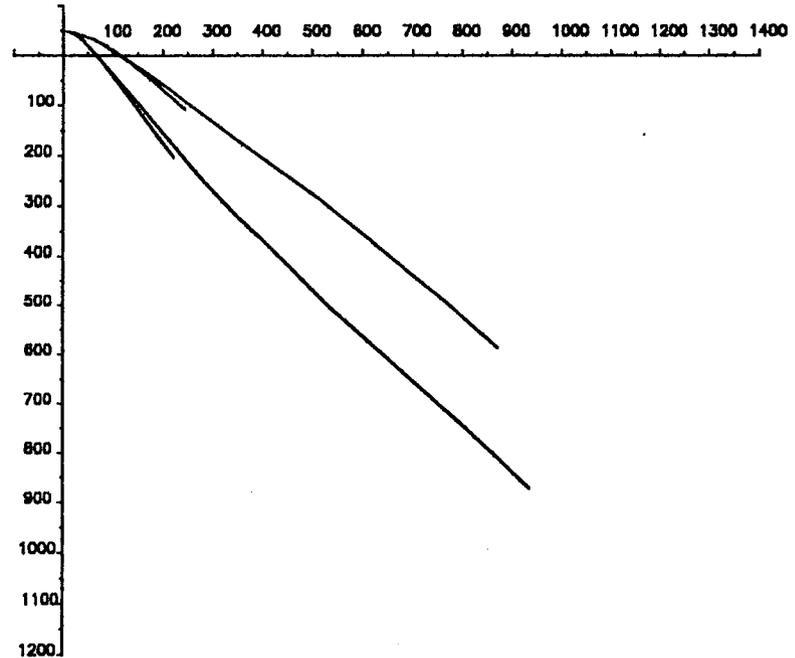
Leads Lines and Hand Lines
are shown in relation to
the Surface Location

Magnetic Dec.: 12.3° E

MOBIL EXPL & PROD

RATHERFORD UNIT NO. 11-43

SAN JUAN, COUNTY



1996

LATITUDE = 37.3000 ALTITUDE = 1500.00 METERS
LONGITUDE = -109.3000 DATE = 1996.42

TI	=	52369.2 nT	CHG TI	=	-61.54 nT/yr
DEC(MAGVAR)	=	12.3 DEG	CHG DEC	=	-1.56 Min/yr
DIP	=	64.0 DEG	CHG DIP	=	-.39 Min/yr
BX (NORTH)	=	22458.2 nT	CHG BX	=	-18.94 nT/yr
BY (EAST)	=	4893.7 nT	CHG BY	=	-14.81 nT/yr
BH (HOR.)	=	22985.2 nT	CHG BH	=	-21.65 nT/yr
BZ (VERT.)	=	47055.4 nT	CHG BZ	=	-57.91 nT/yr
GV	=	-999.0 DEG	CHG GV	=	.00 Min/yr

PICK AN OPTION Y=YES, N=NO

EXIT PROGRAM?

1996

LATITUDE = 37.3000 ALTITUDE = 1500.00 METERS
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TI	=	52369.2 nT	CHG TI	=	-61.54 nT/yr
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GV	=	-999.0 DEG	CHG GV	=	.00 Min/yr

PICK AN OPTION Y=YES, N=NO

EXIT PROGRAM?

BECFIELD SURVEY CALCULATION PROGRAM

HOLE NO. 1

OPERATOR: Mobil Exploration and Producing
 WELL: Ratherford Unit No. 11-43
 JOB NO: 163087
 FIELD: Greater Aneth
 LOCATION: San Juan/Utah

START: 06/01/96
 FINISH: 06/04/96
 COORDINATOR
 W.E. Sheridan
 Gene Phillips

Survey No. 0 is a tie-in to a
 SCIENTIFIC DRILLING INTERNATIONAL
 FINDER gyro survey run on 6/2/96

EAST
 DECLINATION: 12.3

MINIMUM CURVATURE CALCULATIONS (SPE-3362)

PROPOSED
 DIRECTION: 134.00
 (TRUE)

NO.	MD	INC.	TRUE AZIMUTH	TVD	N-S	E-W	SECT.	DLS/ 100
0	5,228.0	2.16	40.61	5,227.14	48.87	0.91	-33.29	1.05
1	5,240	3.7	72.7	5239.1	49.2	1.4	-33.1	18.28
2	5,246	8.0	76.9	5245.1	49.3	2.0	-32.8	71.97
3	5,258	15.0	82.0	5256.8	49.7	4.4	-31.4	58.89
4	5,268	21.4	97.5	5266.3	49.7	7.5	-29.1	79.73
5	5,278	26.7	103.3	5275.5	48.9	11.5	-25.7	57.97
6	5,308	46.0	105.2	5299.5	44.5	28.6	-10.3	64.44
7	5,338	65.3	110.8	5316.4	36.7	52.0	11.9	66.11
8	5,370	82.0	123.3	5325.4	22.7	79.1	41.1	64.15
9	5,401	87.0	124.1	5328.4	5.6	104.8	71.5	16.33
10	5,432	91.4	125.9	5328.8	-12.2	130.2	102.1	15.33
11	5,464	91.3	128.7	5328.0	-31.6	155.6	133.8	8.75
12	5,494	91.5	129.9	5327.3	-50.5	178.8	163.7	4.05
13	5,526	92.4	131.1	5326.2	-71.3	203.1	195.7	4.69
14	5,582	92.5	131.5	5323.8	-108.2	245.2	251.5	0.74

Survey No.'s 1-13 BY TENSOR STEERING TOOL
 Survey No. 14 is a projection to TD
 Bottom Hole Location (from Surface Location) :
 Horizontal Displacement = 268.0 feet
 Displacement Bearing = South 66.2° East (TRUE)
 Displacement Azimuth = 113.8° (TRUE)

BECFIELD SURVEY CALCULATION PROGRAM

HOLE NO. 2

OPERATOR: Mobil Exploration and Producing
 WELL: Ratherford Unit No. 11-43
 JOB NO: 163087
 FIELD: Greater Aneth
 LOCATION: San Juan/Utah

START: 06/05/96
 FINISH: 06/08/96
 COORDINATOR
 W.E. Sheridan
 Gene Phillips

Survey No. 0 is a tie-in to a
 TENSOR MAGNETIC STEERING TOOL
 survey run on 6/4/96.

EAST
 DECLINATION: 12.3

MINIMUM CURVATURE CALCULATIONS (SPE-3362)

PROPOSED
 DIRECTION: 134.00
 (TRUE)

NO.	MD	INC.	TRUE AZIMUTH	TVD	N-S	E-W	SECT.	DLS/ 100
0	5,338.0	65.30	110.80	5,316.38	36.73	51.99	11.88	66.11
8	5,370	76.8	119.2	5326.8	23.9	79.3	40.4	43.65
9	5,401	77.4	121.5	5333.7	8.6	105.4	69.8	7.49
10	5,431	78.7	124.1	5339.9	-7.3	130.0	98.6	9.52
11	5,463	79.8	126.6	5345.9	-25.4	155.7	129.7	8.41
12	5,493	81.8	126.9	5350.7	-43.2	179.4	159.0	6.74
13	5,525	84.8	126.5	5354.4	-62.2	204.9	190.6	9.46
14	5,557	87.4	126.0	5356.6	-81.0	230.6	222.2	8.27
15	5,588	88.3	125.8	5357.7	-99.2	255.7	252.9	2.97
16	5,619	87.9	127.9	5358.8	-117.8	280.5	283.6	6.89
17	5,650	86.8	126.2	5360.2	-136.4	305.2	314.3	6.53
18	5,680	87.9	126.1	5361.6	-154.1	329.4	344.0	3.68
19	5,711	89.3	125.5	5362.3	-172.2	354.6	374.7	4.91
20	5,741	89.7	125.7	5362.6	-189.7	379.0	404.4	1.49
21	5,772	91.6	125.9	5362.3	-207.8	404.1	435.1	6.16
22	5,803	92.9	126.3	5361.0	-226.1	429.1	465.7	4.39
23	5,834	93.5	126.6	5359.3	-244.5	454.0	496.4	2.16
24	5,865	93.8	125.2	5357.3	-262.6	479.1	527.1	4.61
25	5,895	94.5	125.4	5355.2	-279.9	503.5	556.6	2.43
26	5,926	93.4	126.8	5353.0	-298.1	528.5	587.3	5.73
27	5,958	90.7	129.5	5351.9	-317.9	553.6	619.1	11.93
28	5,979	90.2	130.2	5351.7	-331.3	569.8	640.0	4.10
29	5,990	90.2	127.5	5351.7	-338.2	578.3	651.0	24.55
30	6,018	89.5	128.9	5351.8	-355.5	600.3	678.8	5.59
31	6,049	89.4	129.9	5352.1	-375.2	624.3	709.7	3.24
32	6,077	88.9	130.8	5352.5	-393.3	645.6	737.7	3.68
33	6,108	89.2	129.6	5353.0	-413.4	669.3	768.6	3.99
34	6,139	90.5	130.1	5353.1	-433.2	693.1	799.5	4.49
35	6,170	90.6	129.4	5352.8	-453.0	716.9	830.4	2.28
36	6,200	90.7	128.8	5352.4	-472.0	740.2	860.3	2.03
37	6,232	91.1	130.3	5351.9	-492.3	764.9	892.2	4.85
38	6,263	92.7	130.8	5350.9	-512.5	788.4	923.1	5.41
39	6,294	93.1	131.9	5349.3	-532.9	811.7	954.1	3.77
40	6,325	93.0	132.8	5347.7	-553.8	834.5	985.0	2.92
41	6,375	92.8	134.3	5345.1	-588.2	870.7	1034.9	2.92

Survey No.'s 1-40 BY TENSOR STEERING TOOL

Survey No. 41 is a projection to TD

Bottom Hole Location (from Surface Location) :

Horizontal Displacement = 1050.8 feet

Displacement Bearing = South 56.0° East (TRUE)

Displacement Azimuth = 124.0° (TRUE)

BECFIELD SURVEY CALCULATION PROGRAM

HOLE NO. 3

OPERATOR: Mobil Exploration and Producing
 WELL: Rutherford Unit No. 11-43
 JOB NO: 163087
 FIELD: Greater Aneth
 LOCATION: San Juan/Utah

START: 06/08/96
 FINISH: 06/11/96
 COORDINATOR
 W.E. Sheridan
 Gene Phillips

Survey No. 0 is a tie-in to a
 TENSOR MAGNETIC STEERING TOOL
 survey run on 6/8/96.

EAST
 DECLINATION: 12.3

MINIMUM CURVATURE CALCULATIONS (SPE-3362)

PROPOSED
 DIRECTION: 134.00
 (TRUE)

NO.	MD	INC.	TRUE AZIMUTH	TVD	N-S	E-W	SECT.	DLS/ 100
0	5,268.0	21.40	97.50	5,266.34	49.66	7.47	-29.1	79.73
1	5,278	24.7	105.0	5275.5	48.9	11.3	-25.8	44.11
2	5,282	26.5	110.4	5279.2	48.4	12.9	-24.3	73.63
3	5,297	34.9	120.5	5292.0	45.0	19.8	-17.0	65.54
4	5,313	45.9	125.3	5304.2	39.3	28.5	-6.9	71.40
5	5,328	54.2	129.4	5313.8	32.3	37.6	4.6	59.15
6	5,343	62.4	137.6	5321.7	23.6	46.8	17.3	71.71
7	5,358	73.2	141.4	5327.4	13.0	55.8	31.1	75.71
8	5,374	84.1	138.7	5330.5	1.0	65.8	46.7	70.10
9	5,403	94.6	142.0	5330.9	-21.3	84.3	75.4	37.95
10	5,434	94.2	143.7	5328.5	-45.9	103.0	106.0	5.62
11	5,463	95.8	143.1	5326.0	-69.1	120.2	134.5	5.89
12	5,494	98.5	143.6	5322.1	-93.8	138.6	164.8	8.86
13	5,525	99.6	143.2	5317.2	-118.4	156.8	195.0	3.77
14	5,555	99.4	143.4	5312.3	-142.1	174.5	224.2	0.94
15	5,582	98.2	143.0	5308.1	-163.5	190.5	250.6	4.68
16	5,644	97.0	140.3	5299.9	-211.7	228.6	311.5	4.68

Survey No.'s 1-15 BY TENSOR STEERING TOOL
 Survey No. 16 is a projection to TD
 Bottom Hole Location (from Surface Location) :
 Horizontal Displacement = 311.5 feet
 Displacement Bearing = South 47.2° East (TRUE)
 Displacement Azimuth = 132.8° (TRUE)

BECFIELD SURVEY CALCULATION PROGRAM

HOLE NO. 4

OPERATOR: Mobil Exploration and Producing
 WELL: Ratherford Unit No. 11-43
 JOB NO: 163087
 FIELD: Greater Aneth
 LOCATION: San Juan/Utah

START: 06/11/96
 FINISH: 06/14/96
 COORDINATOR
 W.E. Sheridan
 Gene Phillips

Survey No. 0 is a tie-in to a
 TENSOR MAGNETIC STEERING TOOL
 survey run on 6/9/96.

EAST
 DECLINATION: 12.3

MINIMUM CURVATURE CALCULATIONS (SPE-3362)

PROPOSED
 DIRECTION: 134.00
 (TRUE)

NO.	MD	INC.	TRUE AZIMUTH	TVD	N-S	E-W	SECT.	DLS/ 100
0	5,374.0	84.10	138.70	5,330.53	1.00	65.83	46.7	70.10
1	5,403	93.1	136.9	5331.2	-20.5	85.3	75.6	31.65
2	5,433	91.7	139.5	5330.0	-42.8	105.3	105.4	9.84
3	5,464	92.6	139.6	5328.8	-66.4	125.4	136.3	2.92
4	5,494	92.1	139.5	5327.6	-89.2	144.8	166.1	1.70
5	5,525	89.8	139.3	5327.1	-112.7	165.0	197.0	7.45
6	5,555	91.3	139.7	5326.8	-135.5	184.5	226.8	5.17
7	5,587	91.6	139.8	5326.0	-159.9	205.1	258.7	0.99
8	5,618	92.1	140.0	5325.0	-183.6	225.1	289.5	1.74
9	5,650	91.9	139.7	5323.9	-208.1	245.7	321.3	1.13
10	5,681	91.6	138.6	5322.9	-231.5	266.0	352.2	3.68
11	5,711	91.3	137.8	5322.2	-253.9	286.0	382.1	2.85
12	5,741	89.0	135.7	5322.1	-275.7	306.5	412.0	10.38
13	5,772	90.9	135.6	5322.1	-297.9	328.2	443.0	6.14
14	5,803	91.5	135.2	5321.5	-320.0	349.9	474.0	2.33
15	5,833	89.5	134.0	5321.2	-341.0	371.3	504.0	7.77
16	5,864	87.9	134.1	5321.9	-362.6	393.6	535.0	5.17
17	5,895	88.7	135.6	5322.8	-384.4	415.5	566.0	5.48
18	5,927	90.1	135.3	5323.2	-407.2	438.0	597.9	4.47
19	5,958	91.7	135.6	5322.7	-429.3	459.7	628.9	5.25
20	5,986	91.6	135.6	5321.9	-449.3	479.3	656.9	0.36
21	6,015	92.0	135.2	5320.9	-470.0	499.7	685.9	1.95
22	6,046	93.0	133.3	5319.6	-491.6	521.9	716.9	6.92
23	6,077	93.5	131.9	5317.8	-512.5	544.6	747.8	4.79
24	6,108	94.6	131.9	5315.7	-533.2	567.6	778.7	3.55
25	6,139	95.1	132.2	5313.0	-553.8	590.6	809.6	1.88
26	6,170	95.2	131.1	5310.2	-574.4	613.7	840.4	3.55
27	6,200	94.9	132.1	5307.6	-594.2	636.0	870.3	3.47
28	6,232	94.1	132.3	5305.1	-615.6	659.6	902.2	2.58
29	6,263	93.1	133.3	5303.1	-636.7	682.3	933.1	4.56
30	6,294	92.2	133.1	5301.7	-657.9	704.9	964.1	2.97
31	6,324	91.6	133.0	5300.7	-678.3	726.8	994.0	2.03
32	6,356	90.3	132.9	5300.2	-700.1	750.2	1026.0	4.07
33	6,385	91.8	132.4	5299.7	-719.8	771.6	1055.0	5.45
34	6,416	92.0	132.2	5298.6	-740.6	794.5	1086.0	0.91
35	6,446	91.7	131.7	5297.7	-760.7	816.8	1115.9	1.94
36	6,477	90.1	131.4	5297.2	-781.2	840.0	1146.9	5.25
37	6,509	86.6	132.4	5298.1	-802.6	863.8	1178.9	11.37
38	6,540	86.8	133.5	5299.9	-823.7	886.4	1209.8	3.60
39	6,572	87.2	135.0	5301.6	-846.0	909.3	1241.8	4.85
40	6,610	89.0	135.4	5302.8	-872.9	936.1	1279.7	4.85

Survey No.'s 1-39 BY TENSOR STEERING TOOL
 Survey No. 40 is a projection to TD
 Bottom Hole Location (from Surface Location) :
 Horizontal Displacement = 1279.9 feet
 Displacement Bearing = South 47.0° East (TRUE)
 Displacement Azimuth = 133.0° (TRUE)

SCIENTIFIC DRILLING INTERNATIONAL
CASPER, WYOMING

Finder Survey
for

MOBIL OIL EXPLORATION AND PRODUCING
MIDLAND, TEXAS

Job Number : 41F0596044
Well Number : RATHERFORD UNIT 11-43
Site Location : SAN JUAN COUNTY, UTAH
Latitude : 37.200
Survey Date(s) : 01-JUN-96
S.D.C. personnel : JOHN H BECKNER
Calculation Method : Minimum Curvature
Survey Depth Zero : K.B.
Proposal Direction : 134.00
Depth Unit : Feet

Comments :
NAVAJO TRIBAL LEASE 14-20-603-246A
NE/SE SEC.11, T41S, R23E
SURVEY RUN IN DRILL PIPE

Inrun Survey
MOBIL OIL EXPLORATION AND PRODUCING

Well number : RATHERFORD UNIT 11-43

Date : 01-JUN-96

Measured Depth	Vertical Depth	Vert. Section	Inc Deg	Azimuth Deg	Coordinates		D-leg /100ft
					Latitude	Departure	
0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00
100.0	100.00	0.1	0.06	126.10	-0.03	0.04	0.06
200.0	200.00	0.3	0.22	110.95	-0.13	0.25	0.16
300.0	300.00	0.6	0.19	112.15	-0.26	0.50	0.03
400.0	400.00	0.9	0.27	71.66	-0.25	0.97	0.18
500.0	500.00	0.8	0.31	351.04	0.09	1.15	0.38
600.0	599.99	0.0	0.59	325.14	0.78	0.82	0.34
700.0	699.99	-1.2	0.65	325.22	1.81	0.10	0.25
800.0	799.97	-2.8	1.02	321.82	3.12	-0.87	0.15
900.0	899.95	-4.7	1.16	324.02	4.64	-2.02	0.15
1000.0	999.93	-6.7	1.17	317.14	6.21	-3.31	0.14
1100.0	1099.91	-8.8	1.30	310.02	7.69	-4.67	0.20
1200.0	1199.88	-11.3	1.52	303.94	9.16	-6.84	0.27
1300.0	1299.84	-13.9	1.51	300.27	10.56	-9.06	0.10
1400.0	1399.81	-16.3	1.38	310.60	12.01	-11.13	0.29
1500.0	1499.79	-18.6	1.21	301.32	13.34	-12.95	0.27
1600.0	1599.77	-20.6	1.13	304.60	14.45	-14.66	0.10
1700.0	1699.75	-22.4	1.02	293.09	15.36	-16.29	0.24
1800.0	1799.74	-23.7	0.53	293.47	15.89	-17.53	0.49
1900.0	1899.73	-24.2	0.56	240.83	15.84	-18.36	0.43
2000.0	1999.73	-24.2	0.57	204.73	15.15	-19.02	0.35
2100.0	2099.72	-23.8	0.62	203.87	14.04	-19.52	0.25
2200.0	2199.71	-23.7	0.65	232.16	12.93	-20.39	0.41
2300.0	2299.70	-24.2	1.05	253.78	12.22	-21.86	0.41
2400.0	2399.69	-25.1	0.49	292.09	12.13	-23.13	0.73
2500.0	2499.68	-26.0	0.59	323.35	12.70	-23.64	0.31
2600.0	2599.68	-26.7	0.41	1.43	13.47	-24.13	0.37
2700.0	2699.68	-27.4	0.58	349.66	14.33	-24.22	0.20
2800.0	2799.67	-28.0	0.43	8.79	15.20	-24.25	0.22
2900.0	2899.67	-28.7	0.66	349.26	16.13	-24.30	0.29
3000.0	2999.66	-29.3	0.38	9.46	17.02	-24.35	0.33
3100.0	3099.66	-29.7	0.47	12.17	17.75	-24.21	0.09
3200.0	3199.65	-30.2	0.34	348.93	18.45	-24.16	0.21
3300.0	3299.65	-30.5	0.55	42.30	19.09	-23.92	0.44
3400.0	3399.65	-30.4	0.35	57.29	19.61	-23.34	0.23
3500.0	3499.65	-30.5	0.33	17.23	20.05	-22.99	0.23
3600.0	3599.65	-30.7	0.47	34.06	20.67	-22.66	0.16
3700.0	3699.64	-30.8	0.59	41.42	21.39	-22.11	0.14
3800.0	3799.64	-30.7	0.57	58.36	22.04	-21.34	0.17



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

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

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

September 30, 1996

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

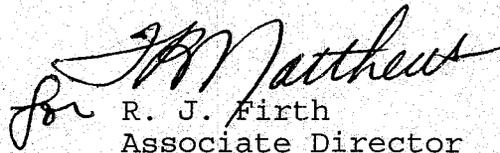
Re: Ratherford Unit 11-43 (Re-entry) Well (Amended approval because of the change in the number of laterals), 1980' FSL, 660' FEL, NE SE, Sec. 11, T. 41 S., R. 23 E., San Juan County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-31622.

Sincerely,


for R. J. Firth
Associate Director

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



Operator: Mobil Exploration & Producing U.S, Inc.
Well Name & Number: Ratherford Unit 11-43 (Re-entry)
API Number: 43-037-31622
Lease: 14-20-603-246A
Location: NE SE Sec. 11 T. 41 S. R. 23 E.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, submittal of a complete angular deviation and directional survey report is required.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

5. Lease Designation and Serial No.

14-20-603-246A

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 11-43

9. API Well No.

43-037-31622

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other **SIDETRACK**

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

3. Address and Telephone No.

P.O. Box 633, Midland, TX 79702 915-688-2585

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

**1980' FSL, 660' FEL
SEC. 11, T41S, R23E**

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

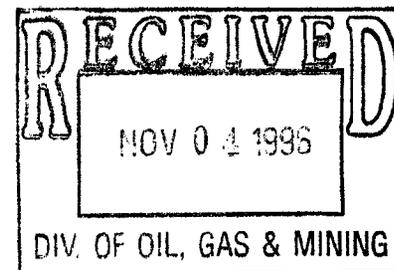
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

**LATERAL #1 108' SOUTH & 245' EAST OF SURFACE LOCATION.
LATERAL #2 588' SOUTH & 871' EAST OF SURFACE LOCATION.
LATERAL #3 212' SOUTH & 229' EAST OF SURFACE LOCATION.
LATERAL #4 873' SOUTH & 936' EAST OF SURFACE LOCATION.**

**10-15-96 MIRU. POOH W/PROD EQUIP.
10-16-96 LOCATION OF LATERAL #2
10-21-96 RIH W/1.25" COIL TBG. TAG TD @ 6385'. ACIDIZE W/12000 GALS 15% ACID.
10-22-96 RIH W/2 7/8" TBG @ 5237', TAC @ 5054' & SN @ 5204'.
SET 2 1/2" X 2 X 24' PUMP. RDMO**



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

Signed Stanley Houchins

Title **ENV. & REG. TECHNICIAN**

Date **10-31-96**

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

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

ExxonMobil Production Company

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

June 27, 2001

ExxonMobil
Production

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

Change of Name – Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Mr. Thompson

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

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

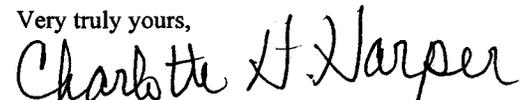
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

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

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

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

Very truly yours,



Charlotte H. Harper
Permitting Supervisor

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

RECEIVED

JUN 29 2001

DIVISION OF
OIL, GAS AND MINING



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Navajo Area Office
NAVAJO REGION

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

AUG 30 2001

IN REPLY REFER TO:

RRES/543

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Dear Ms. Harper:

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

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

Sincerely,

GENNI DENETSONE

Regional Realty Officer

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

MINERAL RESOURCES	
ADM 1	<i>DM</i>
NATIVE MIN COORD	
SOLID MIN TEAM	
PETRO MIN TEAM	<i>2</i>
O & G INSPECT TEAM	
ALL TEAM LEADERS	
LAND RESOURCES	
ENVIRONMENT	
FILES	

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

AB 7/12/2001

SN

543

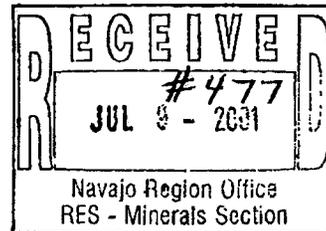
File

June 27, 2001

ExxonMobil
Production

Certified Mail
Return Receipt Requested

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



Change of Name -
Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

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

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

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

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

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

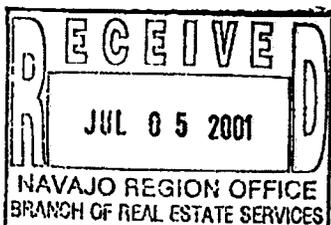
If you have any questions, please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

Attachments



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

NOTE: Check forwarded to Ella Issac

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

Gentlemen:

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

OFFICERS

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

DIRECTORS

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

Sincerely,



Alex Correa

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



Signature

AGENT AND ATTORNEY IN FACT

Title

CERTIFICATION

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

CHANGE OF COMPANY NAME

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

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

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

ExxonMobil Oil Corporation",

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

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

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

S. A. Milligan
Assistant Secretary

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

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

Janice M. Phillips
Notary Public



LISTING OF LEASES OF MOBIL OIL CORPORATION

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

6/1/01

CHUBB GROUP OF INSURANCE COMPANIES

1000 West Loop South, Suite 1900, Houston, Texas 77027-3307
Telephone: (713) 297-4600 • Facsimile: (713) 297-4750

NW Bond

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

BOND NO 8027 31 97

wherein

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

FEDERAL INSURANCE COMPANY AS SURETY,

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

in the amount of \$150,000.00
bond date: 11/01/65

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

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

TO : ExxonMobil Oil Corporation

All other terms and conditions of this Bond are unchanged.

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

ExxonMobil Oil Corporation

By :



FEDERAL INSURANCE COMPANY

By:



Mary Pierson, Attorney-in-fact



**Chubb
Surety**

**POWER
OF
ATTORNEY**

**Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company**

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

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

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

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

Kenneth C. Wendel, Assistant Secretary

Frank E. Robertson, Vice President

STATE OF NEW JERSEY } ss.
County of Somerset

On this 10th day of May, 2001

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



Notary Public State of New Jersey
No. 2231647

Notary Public

Commission Expires Oct 28, 2004

Extract from the By-Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

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

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

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

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



Kenneth C. Wendel, Assistant Secretary

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

CSC

5184334741

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

CSC

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

F010601000187

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
MOBIL OIL CORPORATION

CSC 45

(Under Section 805 of the Business Corporation Law)

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

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

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

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

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

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

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

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

CSC
CSC

5184334741

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

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

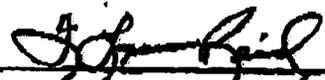
IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.



F. A. Risch, President 

STATE OF TEXAS)
COUNTY OF DALLAS)

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



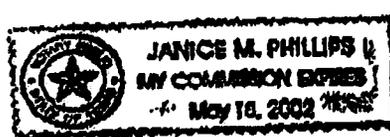
F. L. REID, Secretary

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

[SEAL]



NOTARY PUBLIC, STATE OF TEXAS



CSC
CSC

5184334741

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

CSC 45

CERTIFICATE OF AMENDMENT

OF

MOBIL OIL CORPORATION

Under Section 805 of the Business Corporation Law

SAC

**STATE OF NEW YORK
DEPARTMENT OF STATE**

100 cc

Filed by: EXXONMOBIL CORPORATION
(Name)

FILED JUN 01 2001

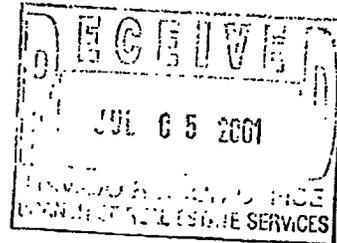
5959 Las Colinas Blvd.
(Mailing address)

TAX \$ _____
BY: *SAC*

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

ny / Albany

Case Reg # 165578 MPJ



010601000195

*State of New York }
Department of State } ss:*

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

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



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

Special Deputy Secretary of State

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW ✓
3. FILE

Change of Operator (Well Sold)

Designation of Agent

X Operator Name Change

Merger

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

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

CA No. Unit: RATHERFORD

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
RATHERFORD UNIT 1-34	01-41S-23E	43-037-16385	6280	INDIAN	OW	P
RATHERFORD UNIT 1-14	01-41S-23E	43-037-31162	6280	INDIAN	OW	P
RATHERFORD 11-41	11-41S-23E	43-037-31544	6280	INDIAN	OW	P
RATHERFORD UNIT 11-43	11-41S-23E	43-037-31622	6280	INDIAN	OW	P
12-14	12-41S-23E	43-037-15844	6280	INDIAN	OW	P
RATHERFORD UNIT 12-23 (MULTI-LEG)	12-41S-23E	43-037-15846	6280	INDIAN	OW	P
RATHERFORD UNIT 12-34	12-41S-23E	43-037-31126	6280	INDIAN	OW	P
RATHERFORD UNIT 12-12	12-41S-23E	43-037-31190	6280	INDIAN	OW	P
RATHERFORD UNIT 12-21	12-41S-23E	43-037-31201	6280	INDIAN	OW	P
RATHERFORD UNIT 12-43	12-41S-23E	43-037-31202	6280	INDIAN	OW	P
RATHERFORD UNIT 12-32	12-41S-23E	43-037-31203	6280	INDIAN	OW	P
RATHERFORD UNIT 13-41	13-41S-23E	43-037-15856	6280	INDIAN	OW	P
N DESERT CR 32-13 (13-32)	13-41S-23E	43-037-16406	6280	INDIAN	OW	S
RATHERFORD UNIT 13-12	13-41S-23E	43-037-31127	6280	INDIAN	OW	P
RATHERFORD UNIT 13-21	13-41S-23E	43-037-31128	6280	INDIAN	OW	P
RATHERFORD UNIT 13-23	13-41S-23E	43-037-31129	6280	INDIAN	OW	P
RATHERFORD UNIT 13-34 (RE-ENTRY)	13-41S-23E	43-037-31130	6280	INDIAN	OW	P
RATHERFORD UNIT 13-43	13-41S-23E	43-037-31131	6280	INDIAN	OW	P
RATHERFORD UNIT 13-14	13-41S-23E	43-037-31589	6280	INDIAN	OW	P
14-32	14-41S-23E	43-037-15858	6280	INDIAN	OW	P

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

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

7. **Federal and Indian Units:**

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

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

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

9. **Underground Injection Control ("UIC")**

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

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 04/12/2002

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 04/12/2002

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

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

FEDERAL WELL(S) BOND VERIFICATION:

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

INDIAN WELL(S) BOND VERIFICATION:

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

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X Change of Operator (Well Sold)

Operator Name Change/Merger

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

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

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

DATA ENTRY:

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

BOND VERIFICATION:

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

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached list
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribe
		7. UNIT or CA AGREEMENT NAME: Ratherford Unit
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>	8. WELL NAME and NUMBER: See attached list	
2. NAME OF OPERATOR: Resolute Natural Resources Company <u>N2700</u>		9. API NUMBER: Attached
3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202		10. FIELD AND POOL, OR WILDCAT: Greater Aneth
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>See attached list</u>		COUNTY: <u>San Juan</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: <u>UTAH</u>

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

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

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

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

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

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

(This space for State use only)

APPROVED 6127106
Earlene Russell
Division of Oil, Gas and Mining (see instructions on Reverse Side)
Earlene Russell, Engineering Technician

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DIV. OF OIL, GAS & MINING

(5/2000)

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

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

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

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

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

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

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

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

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APR 21 2006
DIV. OF OIL, GAS & MINING

Ratherford Unit - Producer Well List

minus P&A's

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

Ratherford Unit - Producer Well List

minus P&A's

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

Ratherford Unit - Producer Well List

minus P&A's

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

Water Source Wells (Feb 2006)

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