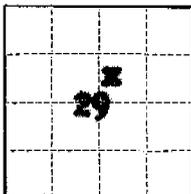


(SUBMIT IN TRIPLICATE)



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency Navajo  
14-20-603-407  
Allottee \_\_\_\_\_  
Lease No. 70350

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 11, 1956

Well No. Navajo B-11 is located 1951 ft. from N line and 1755 ft. from E line of sec. 29

NE 1/4 Sec. 29  
(1/4 Sec. and Sec. No.)

T11S  
(Twp.)

R24E  
(Range)

S.L.  
(Meridian)

White Mesa  
(Field)

San Juan County  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the ~~surface~~ ground above sea level is 5015 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill this well with rotary tools to an estimated depth of 3900' to test the Paradox formation. Approximately 190' of 1 1/8" surface casing will be run and cemented and if unconsolidated sands or water flows are encountered, approximately 1300' of 8 5/8" intermediate casing will be run and cemented. If commercial production is found, a string of 5 1/2" production casing will be run and cemented and the well completed.

Since the north boundary of the lease does not coincide with the boundary of the existing drilling and spacing unit, the attached plat shows a portion of the lease and indicates the well location with respect to the boundary of the drilling and spacing unit and the base boundary.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Continental Oil Company

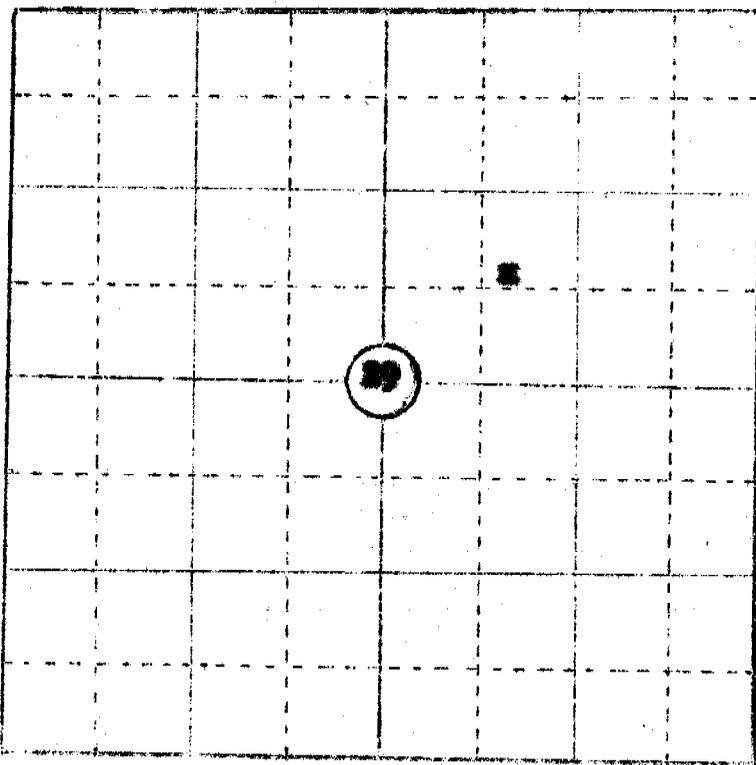
Address P. O. Box 3312

Durango, Colorado

ORIGINAL SIGNED BY:  
By BURTON HALL

Title District Superintendent

Company Continental Oil Company  
 Lease White Horse No. 10 Well No. B-11  
 Sec. 29, T 41S, R 24E  
 County San Juan State New  
 Location 1970 FUL, 1825 FUL  
 Elevation 5050' ON



Scale-4 inches equal 1 mile

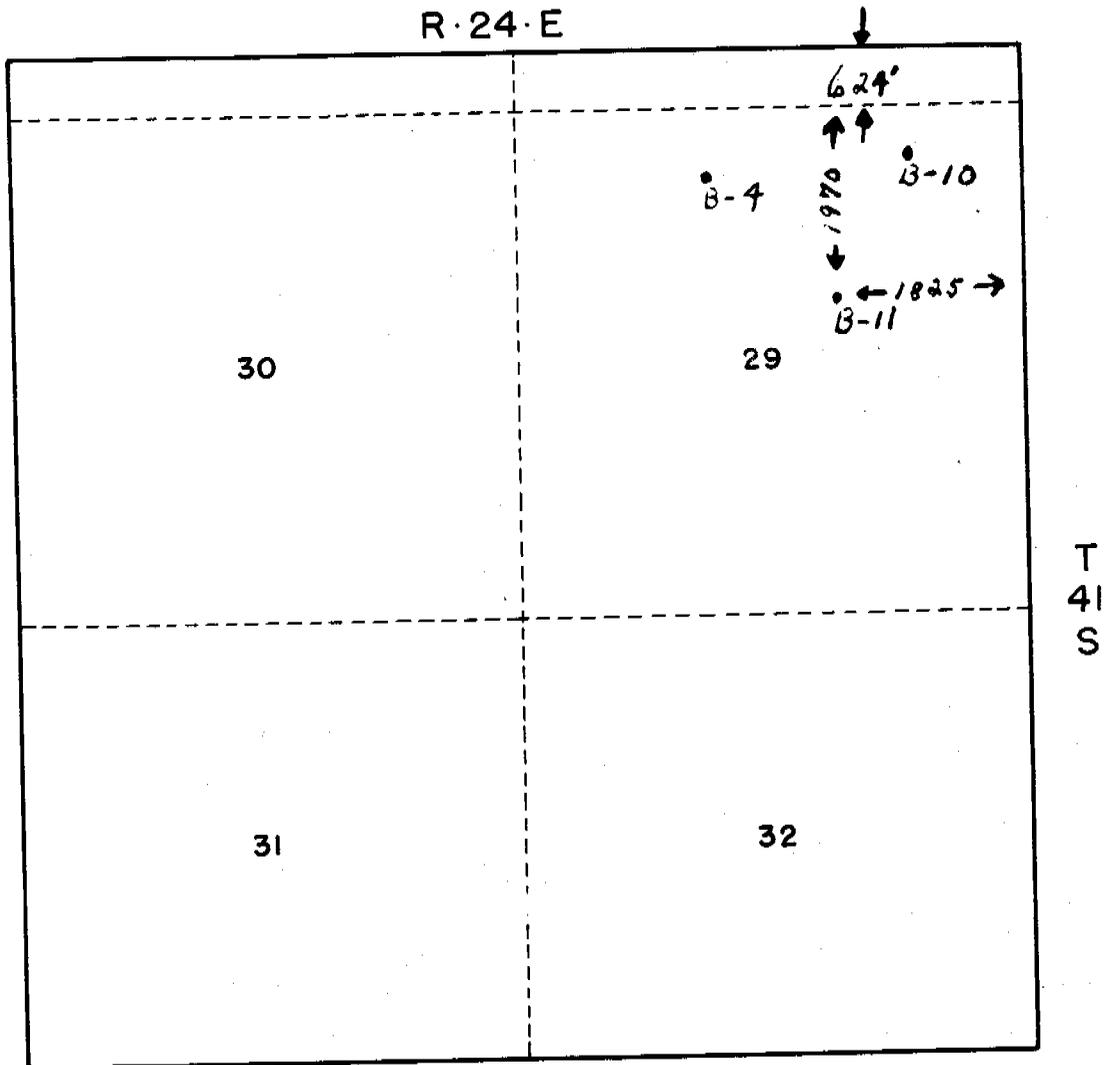
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

*Harold C. Beard*  
 Registered Professional Engineer  
 and Land Surveyor  
 Wyoming License No. 425

Surveyed June 10, 1950

15  
 USOB(4) UTAH 00000(2)

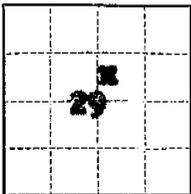
EXHIBIT "A"  
TO NOTICE OF INTENTION TO DRILL  
FOR WELL NO. B-11  
INDIAN LEASE NO. 14-20-603-407



T 41 S - R 24 E  
SAN JUAN COUNTY, UTAH  
SCALE 1" = 2,000'

—— LEASE BOUNDARY  
----- SECTION LINES

16



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency Navajo  
14-20-603-407  
Allottee \_\_\_\_\_  
Lease No. 70390

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 11, 1958

Navajo  
Well No. B-11 is located 1970 ft. from [N] line and 1825 ft. from [E] line of sec. 29  
NE 1/4 Sec. 29 T41S R24E S.1.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
White Mesa San Juan County Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~ground~~ ground surface above sea level is 5098 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill this well with rotary tools to an estimated depth of 3900' to test the Paradox formation. Approximately 190' of 1 1/8" surface casing will be run and cemented and if unconsolidated sands or water flows are encountered, approximately 1300' of 5 3/8" intermediate casing will be run and cemented. If commercial production is found, a string of 5 1/2" production casing will be run and cemented and the well completed.

Since the north boundary of the lease does not coincide with the boundary of the existing drilling and spacing unit, the attached plat shows a portion of the lease and indicates the well location with respect to the boundary of the drilling and spacing unit and the base boundary.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Continental Oil Company  
Address P. O. Box 3312  
Durango, Colorado

By BURTON HALL  
ORIGINAL SIGNED BY  
BURTON HALL

Title District Superintendent

July 14, 1958

Continental Oil Company  
P. O. Box 3312  
Durango, Colorado

Attention: Barton Hall, District Superintendent

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill well No. Navajo B-11, which is to be located 1970 feet from the north line and 1825 feet from the east line of Section 29, Township 41 South, Range 24 East, SEEM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

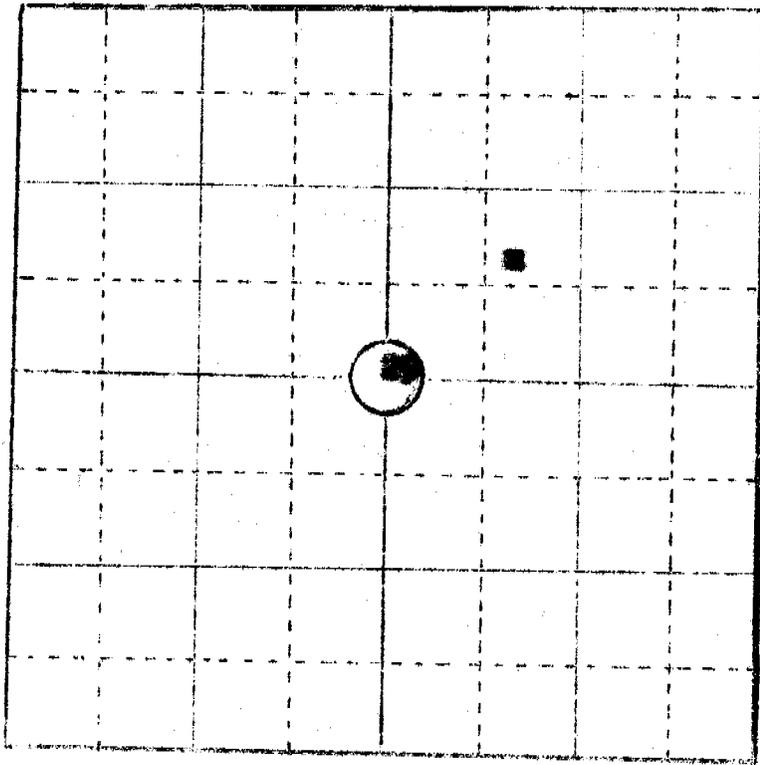
CLEON B. FERRELL  
SECRETARY

CBF:en

cc: Phil McGrath  
USGS, Farmington,  
New Mexico

13

Company Continental Oil Company  
Lease White Mesa Well No. Navajo B-11  
Sec. 29, T 41N, R 24E  
County San Juan State Utah  
Location 1951' FUL, 1759' FUL  
Elevation 5015' OR.



Scale-4 inches equal 1 mile

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Harold H. Burd  
Registered Professional Engineer  
and Land Surveyor  
Wyoming License No. 425

13  
Surveyed July 26, 19 50

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

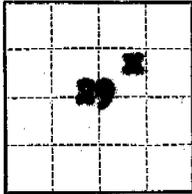
11-20-60-410

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee .....

Lease No. ....

General Lease No. **70390**



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 11, 19 58

Well No. Navajo B-11 is located 1951 ft. from N line and 1755 ft. from E line of sec. 29

NE/4 Sec. 29  
(¼ Sec. and Sec. No.)

41S  
(Twp.)

24E  
(Range)

S. 12  
(Meridian)

White Mesa  
(Field)

San Juan County  
(County or Subdivision)

Utah  
(State of Territory)

The elevation of the derrick floor above sea level is 5026 ft. (5015' GA)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Extremely rough terrain makes it advisable to shift the location of this well from 1970' FNL, 1755' FNL, Section 29, to 1951' FNL, 1755' FNL, Section 29. Permission is requested to vary from true location. The location change also changes the ground elevation from 5050' to 5015'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Continental Oil Company

Address Box 3112  
Durango, Colorado

By C. E. Robertson

Title District Superintendent

August 1, 1958

Continental Oil Company  
P. O. Box 3312  
Durango, Colorado

Attention: C. E. Robertson, District Superintendent

Gentlemen:

This is to acknowledge receipt of your notice of intention to change plans for Well No. Navajo B-11.

Please be advised that insofar as this office is concerned, approval to drill said well at 1951 feet from the north line and 1755 feet from the east line of Section 29, Township 41 South, Range 24 East, GLEB, San Juan County, Utah, is hereby granted.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

OLEON B. FRYER  
SECRETARY

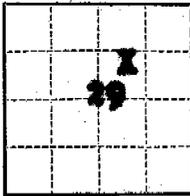
CBF:ca

cc: Phil McGrath  
USGS, Farmington,  
New Mexico

8

(SUBMIT IN TRIPLICATE)

Indian Agency NAVAJO  
14-20-603-410



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_  
Lease No. \_\_\_\_\_

7-K  
10-14

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	<b>X</b>
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 6, 1958

Navajo  
Well No. B-11 is located 1951 ft. from N line and 1755 ft. from E line of sec. 29  
NE/4 Sec. 29 T12S R24E S.1m  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
White Mesa San Juan Co. Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 9026 ft.

DETAILS OF WORK

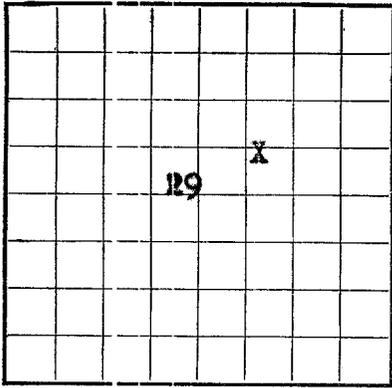
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 7-22-58. Drilled to 9964' T.D. Completed as a flowing well in the Paradox formation. Ran and cemented casing as follows: 4 jts., 175', 1 3/8" surface casing, cemented with 250 sacks regular; 185 jts., 5964', 5 1/2" production casing, cemented with 100 sacks regular and 100 cu. ft. perlite, followed with 250 sacks regular. Perforated with 4 jets per ft. 5742' to 5832', and 5842' to 5850'. Acidized with 7500 gals. 15% regular, 7500 gals. TOL plug and 600 gals. retarded. Scrubbed and flowed well. Ran 189 jts. 2 1/2" tubing. Rig released 8-23-58. IFF 1104 BOPD on 1/2" choke, gravity 41.2 at 60".

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Continental Oil Company  
Address Box 3311  
Durango, Colorado  
By BURTON HALL  
Title District Superintendent

W  
S



Navajo  
14-20-603-410

U. S. LAND OFFICE  
SERIAL NUMBER  
LEASE OR PERMIT TO PROSPECT  
**Conoco #70350**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Continental Oil Company Address Box 3312, Durango, Colorado  
Lessor or Tract Navajo Field White Mesa State Utah  
Well No. B-11 Sec. 29 T. 41S R. 24E Meridian S.L. County San Juan  
Location 1951 ft. [S.] of N Line and 1755 ft. [W.] of E Line of Sec. 29 Elevation 5026  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

ORIGINAL SIGNED BY:  
Signed BURTON HALL

Date October 6, 1958 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling July 22, 1958 Finished drilling August 23, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_  
**IMPORTANT WATER SANDS**  
No. 1 from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
13 3/8	18#	8rd	H-40	175'	Weatherford				Surface
5 1/2	11#	8rd	J-55	596'	Palmer		571.2	589.2	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	175'	250 reg.	Displacement		
5 1/2	596'	350 + perlite	Displacement		

PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

FOLD MARK

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

**TOOLS USED**

Rotary tools were used from surface feet to T.D. feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

**DATES**

Put to producing \_\_\_\_\_, 1958  
 The production for the first 24 hours was 11047 barrels of which 99.1 % was oil; 0.9 %  
~~XXXX~~ % water; and \_\_\_\_\_ % sediment. Gravity, °Be. XXXX API  
 If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
 Rock pressure, lbs. per sq. in. \_\_\_\_\_

**EMPLOYEES**

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
 \_\_\_\_\_, Driller **Contractor:** \_\_\_\_\_, Driller  
**Mountain States Drilling Co.**

**FORMATION RECORD**

FROM-	TO-	TOTAL FEET	FORMATION
2562	2688	26	Shinarump
2688	3042	354	Cutler
3042	3733	691	Organ Rock
3733	4768	1035	Cedar Mesa
4768	5562	794	Hermosa
5562	5738	176	Paradox
5738	5964	226	Aneth

W

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

USGS(3) UTAH O&GCC (2) NEW JBR FORMATION RECORD - continued


IT-50-903-110  
 1958

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_


MIDDING AND CEMENTING RECORD

16-43004-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded 7-22-58. Drilled to 5964' T.D. Completed as a flowing well in the Paradox formation. Ran and cemented casing as follows: 4 jts., 175', 13 3/8" surface casing, cemented with 250 sacks regular; 185 jts., 5964', 5 1/2" production casing, cemented with 100 sacks regular and 100 cu. ft. perlite, followed with 250 sacks regular. Perforated with 4 jets per ft. 5742' to 5832', and 5842' to 5850'. Acidized with 7500 gals. 15% regular, 7500 gals. TCL plug and 600 gals. retarded. Swabbed and flowed well. Ran 189 jts. 2 1/2" tubing. Rig released 8-29-58. IFP 1104 BOPD on 1/2" choke, gravity 41.2 at 600.

OIL OR GAS SANDS OR ZONES

Commenced drilling \_\_\_\_\_ to \_\_\_\_\_ finished drilling \_\_\_\_\_ to \_\_\_\_\_

The summary on this page is for the condition of the well at above date.

Date \_\_\_\_\_

Signed \_\_\_\_\_

so far as can be determined from all available records.

The information given hereon is a complete and correct record of the well and all work done thereon.

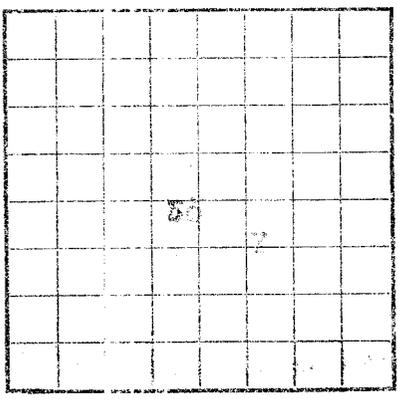
Location \_\_\_\_\_ of \_\_\_\_\_ line and \_\_\_\_\_ of \_\_\_\_\_ line of \_\_\_\_\_ Elevation \_\_\_\_\_

Well No. \_\_\_\_\_ Sec. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ Meridian \_\_\_\_\_

Lesser or that \_\_\_\_\_ Field \_\_\_\_\_ State \_\_\_\_\_

Company \_\_\_\_\_ address \_\_\_\_\_

LOCAL WELL CORRECTLY



LOC OF OIL OR GAS WELL

GEOLOGICAL SURVEY  
DEPARTMENT OF THE INTERIOR  
UNITED STATES

CONOCO 330320  
LEASE OR PERMIT TO PROSPECT  
SERIAL NUMBER  
U. S. FIELD OFFICE

IF-30-003-110  
754870

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

24-22-403-407

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

24-1-4192

8. FARM OR LEASE NAME

Redwood Unit

9. WELL NO. (Primary Continental:  
24-22 Navajo A-11)

10. FIELD AND POOL, OR WILDCAT

Greater North

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

24-412-242 S.L.

1.

OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Phillips Petroleum Co.

3. ADDRESS OF OPERATOR

Box 1198, Cortez, Colorado 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)

At surface

1952' from North Line; 1755' from East Line  
Sec. 29

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, WT, GR, etc.)

5026' DF

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

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

Acidize well with 2000 gallons mud acid.

Present Production: 95 BOPD, 38 MCFD, 1 MFPD.

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

SIGNED

*E. M. Nolan*  
E. M. Nolan

TITLE

Dist. Supt.

DATE

12-22-46

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-verse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 12-403-407
2. NAME OF OPERATOR Phillips Petroleum Company Continental		6. IF INDIAN, ALLOTTEE OR TRIBE NAME None
3. ADDRESS OF OPERATOR Drawer 1190, Cortez, Colorado 81301		7. UNIT AGREEMENT NAME M-1-4172
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1951' From North Line; 1755' From East Line Sec. 29		8. FARM OR LEASE NAME Gatherford Unit
14. PERMIT NO.	15. ELEVATIONS (Show whether DP, BT, OR, etc.) 906' DP	9. WELL NO. 27-32
		10. FIELD AND POOL, OR WILDCAT Gatherford South
		11. SEC. T. B.M. OR B.L. AND SURVEY OR AREA 27-41S-24X S.L.
		12. COUNTY OR TERRITORY San Juan
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>			

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

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

On January 15, 1967 acidized Deepart Creek perforations 774.2-810'. On through 2 1/2" tubing and retrievable packer with 2000 gallons mud acid in 2 equal stages separated by 500 gallons crude oil with 1500' mesh balls.

INITIALS PRODUCTION: 95 BOPD; 30 MOPD; 1 MOPD

PERMANENT PRODUCTION: 105 BOPD; 40 MOPD; 11 MOPD (Acid Water)

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] TITLE District Superintendent DATE 1-25-67  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other Lease Road

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

P. O. Box 2920 Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE:

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

- |                           |                                     |                          |
|---------------------------|-------------------------------------|--------------------------|
| TEST WATER SHUT-OFF       | <input type="checkbox"/>            | <input type="checkbox"/> |
| FRACTURE TREAT            | <input type="checkbox"/>            | <input type="checkbox"/> |
| SHOOT OR ACIDIZE          | <input type="checkbox"/>            | <input type="checkbox"/> |
| REPAIR WELL               | <input type="checkbox"/>            | <input type="checkbox"/> |
| PULL OR ALTER CASING      | <input type="checkbox"/>            | <input type="checkbox"/> |
| MULTIPLE COMPLETE         | <input type="checkbox"/>            | <input type="checkbox"/> |
| CHANGE ZONES              | <input type="checkbox"/>            | <input type="checkbox"/> |
| ABANDON*                  | <input type="checkbox"/>            | <input type="checkbox"/> |
| (other) road construction | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

Approval is requested, contingent on securing Archaeological clearance and residents approval, to construct an access road as shown on the attached Plat A-1A. Approximately 660' of new lease road will be built. The road construction will be of native soil, approximately 20' wide.

RECEIVED  
NOV 15 1983

DIVISION OF  
GAS & MINING

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

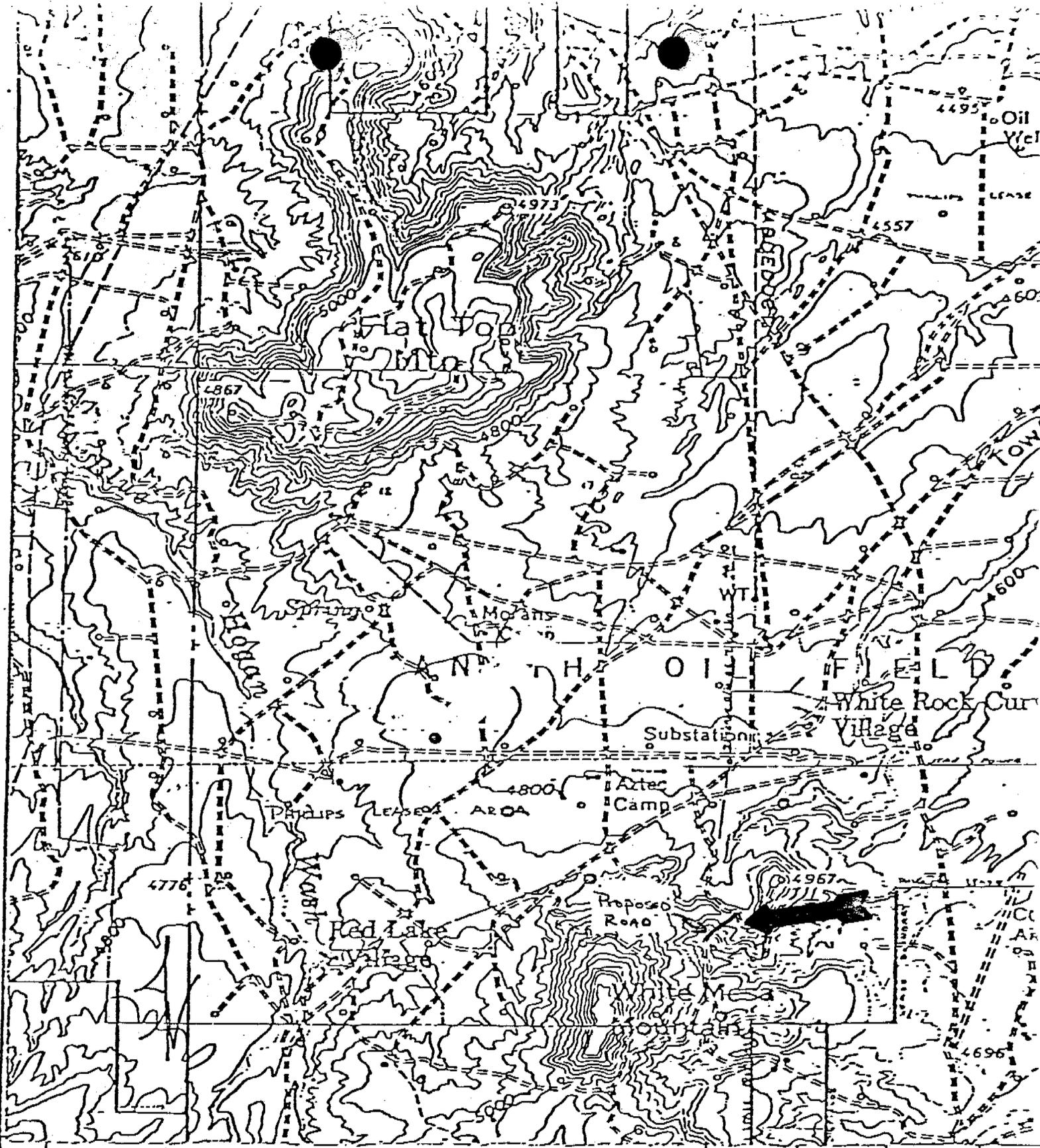
18. I hereby certify that the foregoing is true and correct

SIGNED A. E. Stewart TITLE Area Manager DATE November 10, 1983

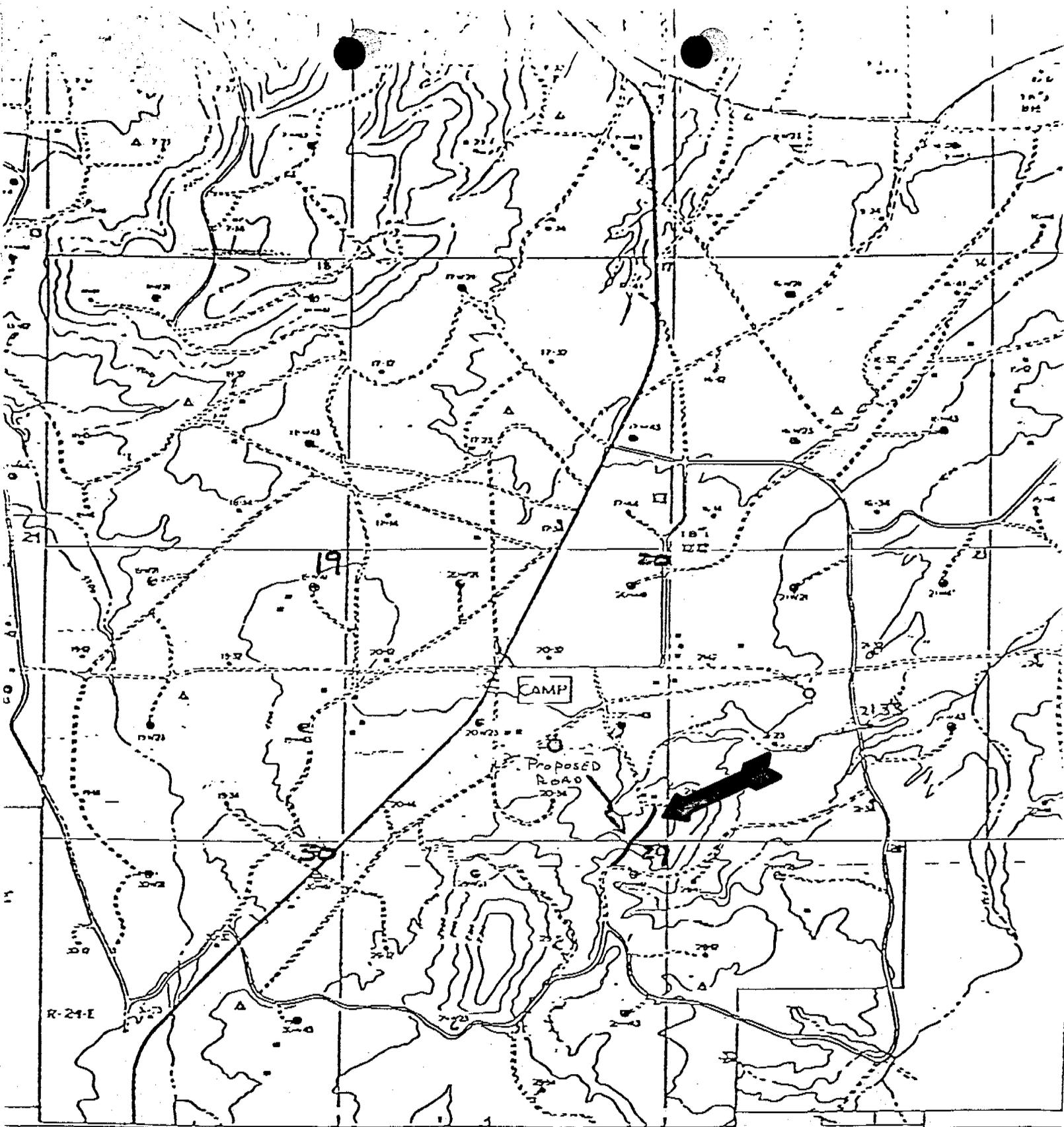
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

- 5- BLM Farmington
- ✓ 1- Utah O&G CC SLC, Utah
- 1- J. L. Whitmire (r) T.C. Doughty \*See Instructions on Reverse Side
- 1- G. W. Berk
- 1- T. M. Isaacs
- 1- File



NO.	REVISION	BY	DATE	CHKD	APP
FOR BIDS	PHILLIPS PETROLEUM COMPANY		JA NO.	FILE CC	
FOR APPR				AFE NO.	SCALE
FOR CONST	RATHERFORD UNIT PROPOSED ROAD T41S-R24E SAN JUAN CO. UTAH			24"=1"	
DRAWN			DWG NO.		
CHECKED			SH NO.		



REVISION	BY	DATE	CHKD	APP'D

BIDS	
APPR	
CONST	


**PHILLIPS PETROLEUM COMPANY**  
 BARTLESVILLE, OKLAHOMA

**RATHERFORD UNIT**  
**PROPOSED ROAD**

**T41S-R24E**  
**SAN JUAN CO., UTAH**

JA NO.	FILE CODE
AFE NO.	SCALE 2 1/4" = 1 mi
DWG. NO.	
SH NO.	A-1A

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 96-004192 ✓
2. NAME OF OPERATOR Phillips Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. Box 2920, Casper, WY 82602		7. UNIT AGREEMENT NAME Ratherford Unit ✓
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface See Attached		8. FARM OR LEASE NAME
14. PERMIT NO. See Attached		9. WELL NO.
15. ELEVATIONS (Show whether DF, RT, OR, etc.)		10. FIELD AND POOL, OR WILDCAT N/A
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA See Attached
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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

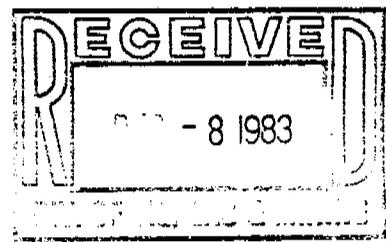
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

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

To show change of Operator only. Phillips Oil Company assumed operations effective December 1, 1983 from Phillips Petroleum Company. See attached for list of wells.

*190 wells 9-3-83*



- |                     |                       |                         |
|---------------------|-----------------------|-------------------------|
| Org. & 3-BLM        | 1-Robert Klabzuba     | 1-Shell Oil Co.         |
| 1-The Navajo Nation | 1-Micheal J. Moncrief | 1-Southland Royalty Co. |
| 1-Mary Wiley Black  | 1-Richard B. Moncrief | 1-Superior Oil Co.      |
| 1-Lawrence E. Brock | 1-Lee W. Moncrief     | 1-Leroy Shave           |
| 1-Cheveron USA      | 1-Mary H. Morgan      | 1-Texaco, Inc.          |
| 1-Ralph Faxel       | 1-W. A. Moncrief      | 1-Wade Wiley, Jr.       |
| 1-Royal Hogan       | 1-W. A. Moncrief, Jr. | 1-Edwin W. Word, Jr.    |
| 1-W. O. Keller      | 1-L. F. Peterson      | 1-File                  |
| 1-Dee Kelly Corp.   |                       |                         |

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

SIGNED *A. E. Stuart* A. E. Stuart TITLE Area Manager DATE 12/6/83

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

WELL NO.WELL LOCATIONAPI NO.STATUS

E14-12	SW NW Sec.14-T41S-R24E	43-037-15998	Act.
E14-13	NW SW Sec.14-T41S-R24E	43-037-15999	SI
10-44	SE SE Sec.10-T41S-R24E	43-037-30451	Act.
15-12	SW NW Sec.15-T41S-R24E	43-037-15715	Act.
15-14	SW SW Sec.15-T41S-R24E	43-037-15716	SI
15-22	SE NW Sec.15-T41S-R24E	43-037-30449	Act.
15-32	SW NE Sec.15-T41S-R24E	43-037-15717	Act.
15-33	NW SE Sec.15-T41S-R24E	43-037-15718	SI
15-41	NE NE Sec.15-T41S-R24E	43-037-15719	Act.
15-42	SE NE Sec.15-T41S-R24E	43-037-3-448	SI
16-12	SW NW Sec.16-T41S-R24E	43-037-15720	Act.
16-14	SW SW Sec.16-T41S-R24E	43-037-15721	Act.
16-32	SW NE Sec.16-T41S-R24E	43-037-15723	Act.
16-34	SW SE Sec.16-T41S-R24E	43-037-15724	SI
16-41	NE NE Sec.16-T41S-R24E	43-037-15725	Act.
17-12	SW NW Sec.17-T41S-R24E	43-037-15726	Act.
17-14	SW SW Sec.17-T41S-R24E	43-037-15727	Act.
17-23	NE SW Sec.17-T41S-R24E	43-037-15728	Act.
17-32	SW NE Sec.17-T41S-R24E	43-037-15729	Act.
17-34	SW SE Sec.17-T41S-R24E	43-037-15730	Act.
17-41	NE NE Sec.17-T41S-R24E	43-037-15731	Act.
17-44	SE SE Sec.17-T41S-R24E	43-037-15732	Act.
18-11	NW NW Sec.18-T41S-R24E	43-037-15733	SI
18-13	NW SW Sec.18-T41S-R24E	43-037-15734	Act.
18-14	SW SW Sec.18-T41S-R24E	43-037-15735	Act.
18-23	NE SW Sec.18-T41S-R24E	43-037-30244	Act.
18-32	SW NE Sec.18-T41S-R24E	43-037-15736	Act.
18-34	SW SE Sec.18-T41S-R24E	43-037-15737	Act.
19-12	SW NW Sec.19-T41S-R24E	43-037-15739	Act.
19-14	SW SW Sec.19-T41S-R24E	43-037-15740	SI
19-32	SW NE Sec.19-T41S-R24E	43-037-15743	Act.
19-34	SW SE Sec.19-T41S-R24E	43-037-15744	Act.
20-12	SW NW Sec.20-T41S-R24E	43-037-15746	Act.
20-14	SW SW Sec.20-T41S-R24E	43-037-15747	Act.
20-32	SW NE Sec.20-T41S-R24E	43-037-15749	Act.
20-34	SW SE Sec.20-T41S-R24E	43-037-15750	Act.
21-12	SW NW Sec.21-T41S-R24E	43-037-15752	Act.
21-14	SW SW Sec.21-T41S-R24E	43-037-15753	Act.
21-23	NE SW Sec.21-T41S-R24E	43-037-13754	Act.
21-32	SW NE Sec.21-T41S-R24E	43-037-15755	Act.
21-33	NW SE Sec.21-T41S-R24E	43-037-30447	SI
21-34	SW SE Sec.21-T41S-R24E	43-037-15756	Act.
22-12	SW NW Sec.22-T41S-R24E	43-037-15757	SI
22-14	SW SW Sec.22-T41S-R24E	43-037-15758	SI
24-42	SE NE Sec.24-T41S-R24E	43-037-15863	Act.
28-11	NW NW Sec.28-T41S-R24E	43-037-30446	Act.
28-12	SW NW Sec.28-T41S-R24E	43-037-15336	Act.
29-12	SW NW Sec.29-T41S-R24E	43-037-15337	Act.
29-32	SW NE Sec.29-T41S-R24E	43-037-15339	Act.

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.  
14-20-603-407

6. If Indian, Allocated or Tribe Name  
Navajo Tribal

7. If Unit or CA, Agreement Designation  
Ratherford Unit  
SW-I-4192

8. Well Name and No.  
Ratherford Unit #29-32

9. API Well No.  
43-037-15339

10. Field and Pool, or Exploratory Area  
Greater Aneth

11. County or Parish, State  
San Juan, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
Phillips Petroleum Company

3. Address and Telephone No.  
5525 Hwy 64 NBU 3004, Farmington, NM 87401 (505) 599-3412

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1951' FNL & 1755' FEL  
Sec. 29, T41S, R24E

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

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

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

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

11-18-91 thru 11-27-91

MI & RU Flint Rig #4077 to isolate and squeeze casing leak. ND WH & NU BOP. COOH w/production equipment. Ran pkr and isolated csg leak @ 2565'. RU Halliburton and pmpd w/10 bbls wtr w/mud flush. Pmpd lead cement 168 bbl at 158#/gal and pmpd tail cement 36 bbls @ 15.6#/gal. Lead cmt to surface w/176 bbls cmt. Displaced w/15-1/2 bbls wtr. Final squeeze pressure 1200 psi. RU drilling equipment, tripping down hole. Drill on retainer. RU wireline. Make run w/cmt dump bailor. Tagged retainer @ 2407'. Dump 1 bag of cmt. POH. Calculated top of cmt @ 2395'. Drilled cmt to 2477'. Circulate hole clean. POH w/bit & scraper. POH w/bridge plug. Tag fill, bail out to 5942' KB. Run in hole w/tubing with S/N @ 5884' KB. TAC @ 5667' KB. RD & NU WH. Ran rods & return to production.

**RECEIVED**

JAN 17 1992

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

Signed J. E. Robinson

Title Sr. Drlg. & Prod. Engr.

DIVISION OF  
OIL GAS & MINING 1-9-92

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

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

\*See instruction on Reverse Side

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

**RECEIVED**

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

USRA  
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 Konkkel* Telephone Number: 505 599-3452

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(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.)</small>		3. LEASE DESIGNATION & SERIAL NO.  6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO TRIBAL
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	2. NAME OF OPERATOR MOBIL OIL CORPORATION	7. UNIT AGREEMENT NAME RATHERFORD UNIT 8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR P. O. BOX 633 MIDLAND, TX 79702		9. WELL NO.  10. FIELD AND POOL, OR WILDCAT GREATER ANETH 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface <input type="checkbox"/> At proposed prod. zone <input type="checkbox"/>		12. COUNTY SAN JUAN 13. STATE UTAH
14. API NO.	15. ELEVATIONS (Show whether OF, RT, GR, etc.)	16. COUNTY SAN JUAN 13. STATE UTAH

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"/>	
<small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>	

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 JULY1, 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 J. Judd 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:

✓ 19W-21	43-037-15741	14-20-603-353	SEC. 19, T41S, R24E	NE/NW 660' FNL 1860' FWL
✓ 19-22	43-037-31046	14-20-603-353	SEC. 19, T41S, R24E	SE/NW 1840' FNL; 1980' FWL
✓ 19W-23	43-037-15742	14-20-603-353	SEC. 19, T41S, R24E	NE/SW 2080' FSL; 1860' FWL
✓ 19-31	43-037-31047	14-20-603-353	SEC. 19, T41S, R24E	NW/NE 510' FNL; 1980' FEL
✓ 19-32	43-037-15743	14-20-603-353	SEC. 19, T41S, R24E	SW/NE 1980' FNL; 1980' FEL
✓ 19-33	43-037-31048	14-20-603-353	SEC. 19, T41S, R24E	NW/SE 1980' FSL; 1980' FEL
✓ 19-34	43-037-15744	14-20-603-353	SEC. 19, T41S, R24E	SW/SE 660' FSL; 1980' FEL
✓ 19W-41	43-037-15745	14-20-603-353	SEC. 19, T41S, R24E	NE/NE 660' FNL; 660' FEL
✓ 19-42	43-037-30916	14-20-603-353	SEC. 19, T41S, R24E	SE/NE 1880' FNL, 660' FEL
✓ 19W-43	43-037-16420	14-20-603-353	SEC. 19, T41S, R24E	NE/SE 1980' FSL; 760' FEL
✓ 19-44	43-037-31081	14-20-603-353	SEC. 19, T41S, R24E	SE/SE 660' FSL; 660' FEL
✓ 19-97	43-037-31596	14-20-603-353	SEC. 19, T41S, R24E	2562' FNL, 30' FEL
✓ 20-11	43-037-31049	14-20-603-353	SEC. 20, T41S, R24E	NW/NW 500' FNL; 660' FWL
✓ 20-12	43-037-15746	14-20-603-353	SEC. 20, T41S, R24E	1980' FNL, 660' FWL
✓ 20-13	43-037-30917	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 2140' FSL, 500' FWL
✓ 20-14	43-037-15747	14-20-603-353	SEC. 20, T41S, R24E	660' FSL; 660' FWL
✓ 20W-21	43-037-16423	14-20-603-353	SEC. 20, T41S, R24E	660' FNL; 1880' FWL
✓ 20-22	43-037-30930	14-20-603-353	SEC. 20, T41S, R24E	SE/NW 2020' FNL; 2090' FWL
✓ 20W-23	43-037-15748	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 2080; 2120' FWL
✓ 20-24	43-037-30918	14-20-603-353	SEC. 20, T41S, R24E	SE/SW 820' FSL; 1820' FWL
✓ 20-31	43-037-31050	14-20-603-353	SEC. 20, T41S, R24E	NW/NE 660' FNL; 1880' FEL
✓ 20-32	43-037-15749	14-20-603-353	SEC. 20, T41S, R24E	SW/NE 1980' FNL, 1980' FEL
✓ 20-33	43-037-30931	14-20-603-353	SEC. 20, T41S, R24E	NW/SE 1910' FSL; 2140' FEL
✓ 20-34	43-037-15750	14-20-603-353	SEC. 20, T41S, R24E	660' FSL; 1850' FEL
✓ 20W-41	43-037-15751	14-20-603-353	SEC. 20, T41S, R24E	NE/NE 660' FNL; 660' FEL
✓ 20-42	43-037-31051	14-20-603-353	SEC. 20, T41S, R24E	SE/NE 1980' FNL; 660' FEL
✓ 20W-43	43-037-16424	14-20-603-353	SEC. 20, T41S, R24E	2070' FSL; 810' FEL
✓ 20-44	43-037-30915	14-20-603-353	SEC. 20, T41S, R24E	SE/SE 620' FSL; 760' FEL
✓ 20-66	43-037-31592	14-20-603-353	SEC. 20, T41S, R24E	SW/NW 1221' FWL; 1369' FNL
✓ 21-11	43-037-31052	14-20-603-355	SEC. 21, T41S, R24E	NW/NW 660' FNL; 660' FWL
✓ 21-12	43-037-15752	14-20-603-355	SEC. 21, T41S, R24E	2080' FNL; 660' FWL
✓ 21-13	43-037-30921	14-20-603-355	SEC. 21, T41S, R24E	NW/SW 2030' FSL; 515' FWL
✓ 21-14	43-037-15753	14-20-603-355	SEC. 21, T41S, R24E	SW/SW 660' FSL; 460' FWL
✓ 21W-21	43-037-16425	14-20-603-355	SEC. 21, T41S, R24E	NE/NW 660' FNL; 2030' FWL
✓ 21-32	43-037-15755	14-20-603-355	SEC. 21, T41S, R24E	SW/NE 1880' FNL; 1980' FEL
<del>21-33</del>	<del>NA</del>	<del>14-20-603-355</del>	<del>SEC. 21, T41S, R24E</del>	<del>2000' FSL; 1860' FEL</del>
✓ 21-34	43-037-15756	14-20-603-355	SEC. 21, T41S, R24E	SW/SE 660' FSL; 1980' FEL
✓ 21W-41	43-037-16426	14-20-603-355	SEC. 21, T41S, R24E	660' FNL; 810' FEL
✓ 21W-43	43-037-16427	14-20-603-355	SEC. 21, T41S, R24E	NE/NE 1980' FSL; 660' FEL
✓ 24-11	43-037-15861	14-20-603-247A	SEC. 24, T41S, R24E	510' FNL; 810' FWL
✓ 24W-21	43-037-16429	14-20-603-247	SEC. 24, T41S, R24E	4695' FSL; 3300' FEL
✓ 24W-43	43-037-16430	14-20-603-247	SEC. 24, T41S, R24E	2080' FSL; 660' FEL
✓ 24-31W	43-037-15862	14-20-603-247A	SEC. 24, T41S, R24E	NW/NE 560' FNL; 1830' FEL
✓ 24-32	43-037-31593	14-20-603-247A	SEC. 24, T41S, R24E	SW/NE 2121' FNL; 1846' FEL
✓ 24-41	43-037-31132	14-20-603-247A	SEC. 24, T41S, R24E	NE/NE 660' FNL; 710' FEL
✓ 24W-42	43-037-15863	14-20-603-247A	SEC. 24, T41S, R24E	660' FSL; 1980' FNL
✓ 28-11	43-037-30446	14-20-603-409	SEC. 28, T41S, R24E	NW/NW 520' FNL; 620' FWL
✓ 28-12	43-037-15336	14-20-603-409B	SEC. 28, T41S, R24E	SW/SE/NW 2121' FNL; 623' FWL
✓ 29-11	43-037-31053	14-20-603-407	SEC. 29, T41S, R24E	NW/NW 770' FNL; 585' FWL
✓ 29W-21	43-037-16432	14-20-603-407	SEC. 29, T41S, R24E	NE/NW 667' FNL; 2122' FWL
✓ 29-22	43-037-31082	14-20-603-407	SEC. 29, T41S, R24E	SE/NW 2130' FNL; 1370' FWL
✓ 29W-23	43-037-15338	14-20-603-407	SEC. 29, T41S, R24E	NE/SW 1846' FSL; 1832' FWL
✓ 29-31	43-037-30914	14-20-603-407	SEC. 29, T41S, R24E	NW/NE 700' FNL; 2140' FEL
✓ 29-32	43-037-15339	14-20-603-407	SEC. 29, T41S, R24E	1951' FNL; 1755' FEL
✓ 29-33	43-037-30932	14-20-603-407	SEC. 29, T41S, R24E	NW/SE 1860' FSL; 1820' FEL
✓ 29-34	43-037-15340	14-20-603-407	SEC. 29, T41S, R24E	817' FSL; 2096' FEL
✓ 29W-41	43-037-16433	14-20-603-407	SEC. 29, T41S, R24E	557' FNL; 591' FEL
✓ 29W-42	43-037-30937	14-20-603-407	SEC. 29, T41S, R24E	SE/NE 1850' FNL; 660' FEL
✓ 29W-43	43-037-16434	14-20-603-407	SEC. 29, T41S, R24E	NE/SE 1980' FSL; 660' FEL
✓ 30-21W	43-037-16435	14-20-603-407	SEC. 30, T41S, R24E	660' FNL; 1920' FWL
✓ 30-32	43-037-15342	14-20-603-407	SEC. 30, T41S, R24E	SW/NE 1975' FNL; 2010' FEL
✓ 30W-41	43-037-15343	14-20-603-407	SEC. 30, T41S, R24E	NE/NE 660' FNL; 660' FEL
✓ 9-34	NA 4302715711	NA 1420603404B	NA SEC. 9 T. 41S, R. 24E	NA SW/SE 660' FSL 1980' FEL
✓ 12-43	43-307-31202	14-20-603-246	SEC. 12, T41S, R23E	2100' FSL; 660' FEL
✓ 12W31	43-037-15847	14-20-603-246	SEC. 12, T41S, R23E	661' FNL; 1981' FEL
✓ 13W24	43-037-15853	14-20-603-247	SEC. 13, T41S, R23E	SE/SW 660' FSL; 3300' FEL
✓ 15W23	43-037-16412	14-20-603-355	SEC. 15, T41S, R24E	2140' FSL; 1820' FWL
✓ 17-24	43-037-31044	14-20-603-353	SEC. 17, T41S, R24E	SE/SW 720' FSL; 1980' FWL
✓ 18-13	43-037-15734	14-20-603-353	SEC. 18, T41S, R24E	NW/NW 1980' FSL; 500' FWL
✓ 18W32	43-037-15736	14-20-603-353	SEC. 18, T41S, R24E	SW/NE 2140' FNL; 1830' FEL
✓ 20-68	43-037-31591	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 1276' FWL; 1615' FSL
✓ 21-23	43-037-13754	14-20-603-355	SEC. 21, T41S, R24E	NE/SW 1740' FSL 1740' FWL
✓ 28W21	43-037-16431	14-20-603-409	SEC. 29, T41S, R24E	660' FNL; 2022' FWL

PAID

PAID

PAID

PAID

MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

*L.B. Sheffield*  
~~BRIAN BERRY~~  
~~M. E. P. N. A. MOBIL~~  
~~POB 219031 1807A RENTWY~~ *P.O. DRAWER G*  
 DALLAS TX 75221-9031 *CORTEZ, Co. 81321*

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 7 / 93

AMENDED REPORT  (Highlight Changes)

*\*931006 updated. jic*

ENTITY NUMBER	PRODUCT	GRAVITY	BEGINNING INVENTORY	VOLUME PRODUCED	DISPOSITIONS				ENDING INVENTORY
		BTU			TRANSPORTED	USED ON SITE	FLARED/VENTED	OTHER	
05980	OIL			177609	177609	0			
	GAS			72101	66216	5885			
11174	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
TOTALS				249710	243825	5885			

**RECEIVED**  
 SEP 13 1993  
 DIVISION OF  
 OIL, GAS & MINING

COMMENTS: *PLEASE NOTE ADDRESS change. Mobil ~~also~~ 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.

Date: 9/5/93

Name and Signature: L. B. Sheffield

Telephone Number: 303.565.2212  
~~244.658.2528~~

Sept 29, 1993

TO: Lisha Cordova - Utah Mining  
Oil & Gas

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

Here is copy of Rutherford Unit  
Successor Operator,

4 pages including this one.

*2.6c Ratherford Unit (GC)*

RECEIVED  
BLM

JUL 27 11:44

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

070 FARMINGTON, NM

ARES/543

JUL 28 1993

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

MINERAL	
NO. 1	
DATE	
BY	
REMARKS	
GPS	
ALL SUPV.	
FILED	

Dear Mr. Cox:

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

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

Sincerely,

ACTING Area Director

Enclosure

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS

RECEIVED  
BLM

DESIGNATION OF OPERATOR

JUN 27 04:44

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"

070 FARMINGTON, NM

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.H. 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.H., 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.H., 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	1.5097575
8	SW/4 Sec. 9, T-41-S, R-24-E, S.L.H. 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.H., 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	VLC/117-84
2	DPS/58-APL
3	VLC
4	RJB
5	JBR
6	PL

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

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

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-1-93)

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

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

Name: <b>**SEE ATTACHED**</b>	API: <u>43-037-15339</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) \_\_\_\_\_. 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.
- 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 19 93.

**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.  
**14-20-603-407**

6. If Indian, Allottee or Tribe Name  
**Navajo**

7. If Unit of CA, Agreement Designation  
**Ratherford**

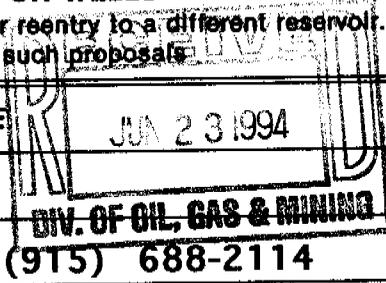
8. Well Name and No.  
**RU 29-32**

9. API Well No.  
**43-037-15339**

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  
**MEPUS for MPT&NM and MEPNA\***

**(915) 688-2114**

3. Address and Telephone No.  
**P.O. Box 633, Midland, Tx. 79702 Attn: Glen Cox**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**Surface: SWNE 29-41s-24e  
BHL: N/A**

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 checked="" type="checkbox"/> Other <u>Pipeline</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.)\*

\*Mobil Exploration & Producing U. S. Inc. as agent for Mobil Producing Texas & New Mexico Inc. and Mobil Exploration & Producing North America Inc.

Will bury water injection pipeline ≈30" deep. (Application to convert well will be filed separately.) Pipeline will be ≈500' long and run south from well to an existing injection pipeline. All in unit. All on Navajo Tribal Trust. All sites avoided.

Pipeline will be ≈3-1/2" OD coiled steel tubing. Wall thickness is 0.190". Pipe rated to API5LX42. Maximum operating pressure will be ≈500 psi. Hydrotested to ≈5800 psi. Burst pressure is ≈7200 psi. Tubing will be unreeled from spool mounted on bulldozer.

cc: BIA, BLM, Cox, UDOGM

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

Signed

*Ronald Joseph*

Title

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

Date

**6-20-94**

Approved by  
Conditions of approval, if any:

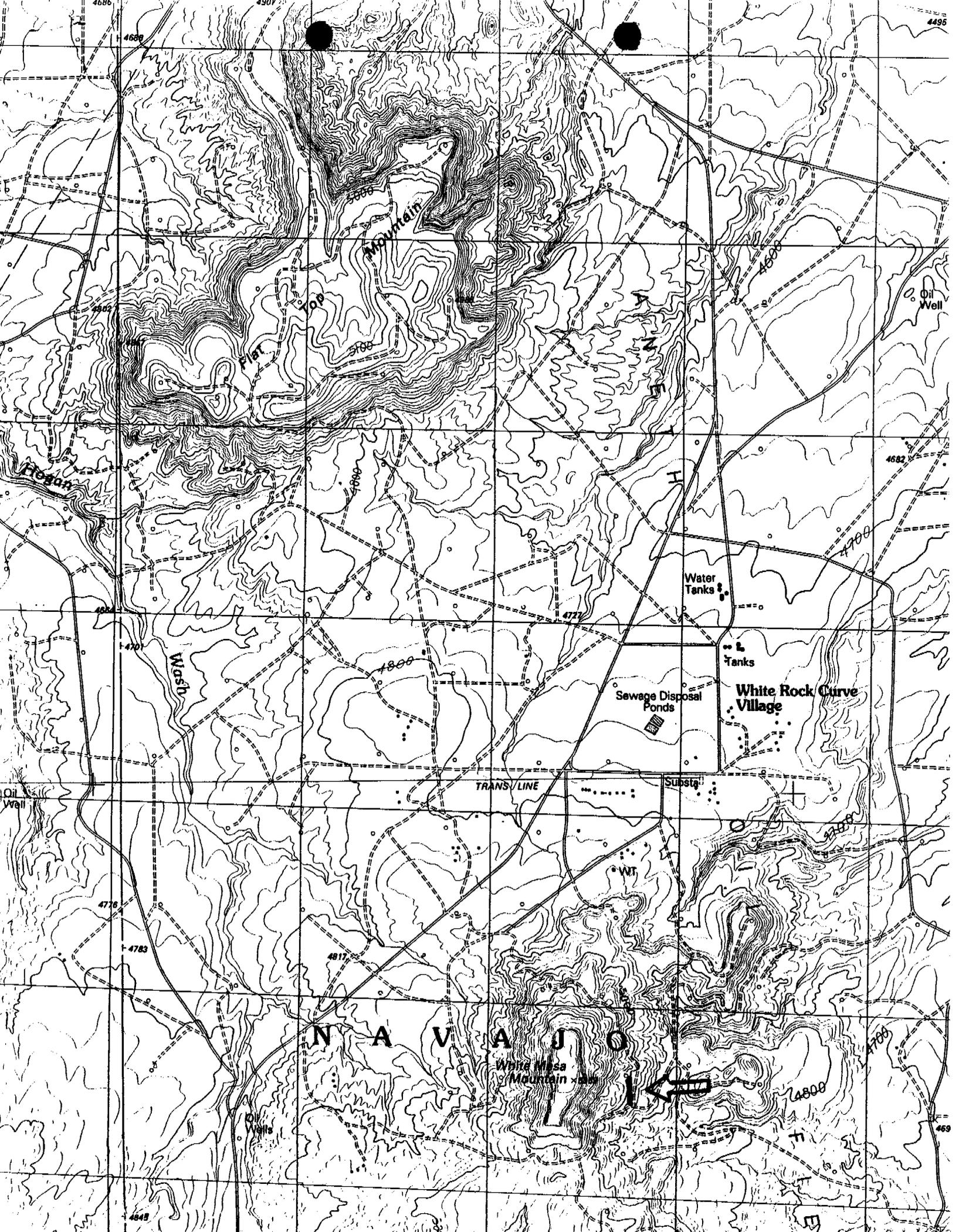
Title

Date

**FOR RECORD ONLY**

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



N A V A J O

White Mesa Mountain

Flat Top Mountain

White Rock Curve Village

Sewage Disposal Ponds

Water Tanks

Tanks

TRANS LINE

Substa

Oil Well

Oil Well

Oil Well

469

4495

4688

4682

4682

4701

4776

4783

4817

4843

5000

4800

4771

4688

4700

4888

4800

4700

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

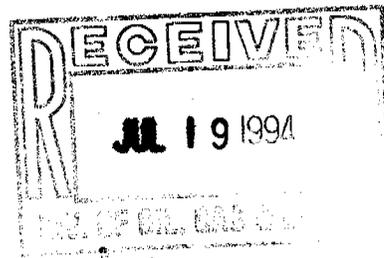
**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

1a. TYPE OF WORK <b>DRILL</b> <input type="checkbox"/> <b>DEEPEEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>14-20-603-407</b>
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>NAVAJO TRIBAL</b>
2. NAME OF OPERATOR <b>MOBIL EXPLORATION &amp; PRODUCING U.S. INC</b>		7. UNIT AGREEMENT NAME <b>RATHERFORD UNIT</b>
3. ADDRESS AND TELEPHONE NO. <b>P. O. BOX 633, MIDLAND, TEXAS 79702</b> <b>915-688-2585</b>		8. FARM OR LEASE NAME, WELL NO. <b>RATHERFORD UN 29-32</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At surface <b>1951' FNL, 1755' FEL</b> At proposed prod. zone <b>SAME</b>		9. API WELL NO. <b>43-037-15339</b>
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>5 MILES SSE OF MONTEZUMA CREEK, UTAH</b>		10. FIELD AND POOL, OR WILDCAT <b>GREATER ANETH</b>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH <b>HORIZONTAL</b>	20. ROTARY OR CABLE TOOLS
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5012' GL</b>		12. COUNTY OR PARISH <b>SAN JUAN</b>
		13. STATE <b>UTAH</b>
		22. APPROX. DATE WORK WILL START* <b>07-25-94</b>

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	27.1	175	175
11	8-5/8	24	1682	455
7-7/8	5-1/2	14 & 15	5964	132

\*\*\* SEE ATTACHED PROCEDURE FOR HORIZONTAL RE-ENTRY \*\*\*



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

24.

SIGNED Shelby Dadd TITLE ENV. & REG. TECHNICIAN DATE 07/14/94

**APPROVED BY THE STATE**

**OF UTAH DIVISION OF OIL, GAS, AND MINING**

PERMIT NO. 43-037-15339 APPROVAL DATE 7/28/94

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY: DATE: 7/28/94  
BY: [Signature]  
WELL SPACING: 2649-2-3

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

\*See Instructions On Reverse Side

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

## Ratherford Unit #29-32 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 1000' lateral.

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 4 3/4" bit and casing scraper to PBD. TOH with bit and scraper.
6. Attempt to load hole and establish an injection rate (if the injection pressure is > 500 psi, a packer should be run to establish an injection rate).
7. MIRU wireline truck. Run gauge ring and junk basket to PBD. Run a gyro survey from PBD to surface. Run and set a cement retainer  $\pm 5700'$ . RD wireline truck.
8. TIH with star guide @  $\pm 5650'$ . Circulate until well is static and free of oil and gas. Sting into cement retainer and establish injection rate. Pressure annulus to 500 psi. Squeeze cement the existing Desert Creek perforations. Pull out of retainer leaving 1 bbl of cement on top of the retainer and reverse out. TOH with star guide laying down tubing.
9. TIH with 4 3/4" bit and drill collars picking up 2 7/8" 10.40 ppf E-75 AOH workstring. Drill cement retainer and cement to 5942'. Circulate hole clean and then mud-up system until a yield point of 40-50 is obtained. TOH with bit.
10. TIH with 4 1/2" section mill dressed with cutter arms for 5 1/2" casing to 5742'. Mill section in casing from 5742' - 5772'. Circulate the hole clean and TOH with section mill.
11. TIH with 4 3/4" bit and clean out to TD. Circulate hole clean and TOH with bit.
12. 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.
13. TIH and tag cement plug and re-spot plug if the top is too low. TOH and LD workstring. ND BOPs and NU wellhead. RDMO daylight workover rig.
14. MIRU 24 hour DDPU with drilling package. TIH with 4 3/4" MT bit, DCs, and 2 7/8", 10.4ppf. AOH drillpipe.
15. Dress off cement plug to the kick off point @ 5752'. Treat water and mud up with XC polymer and starch. POOH.

16. PU curve drilling assembly and TIH on 2 7/8" DP to PBSD.
17. RU power swivel and wireline. Latch into gyro tool and orient BHA.
18. Sidetrack wellbore using gyro orientation. Switch to Magnetic steering tool when free of magnetic interference from casing.
19. Drill curve section using steering tool for orientation. POOH and LD curve drilling motor.
20. PU lateral drilling motor and new bit.
21. 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.
22. Complete well as per operations Engineering.

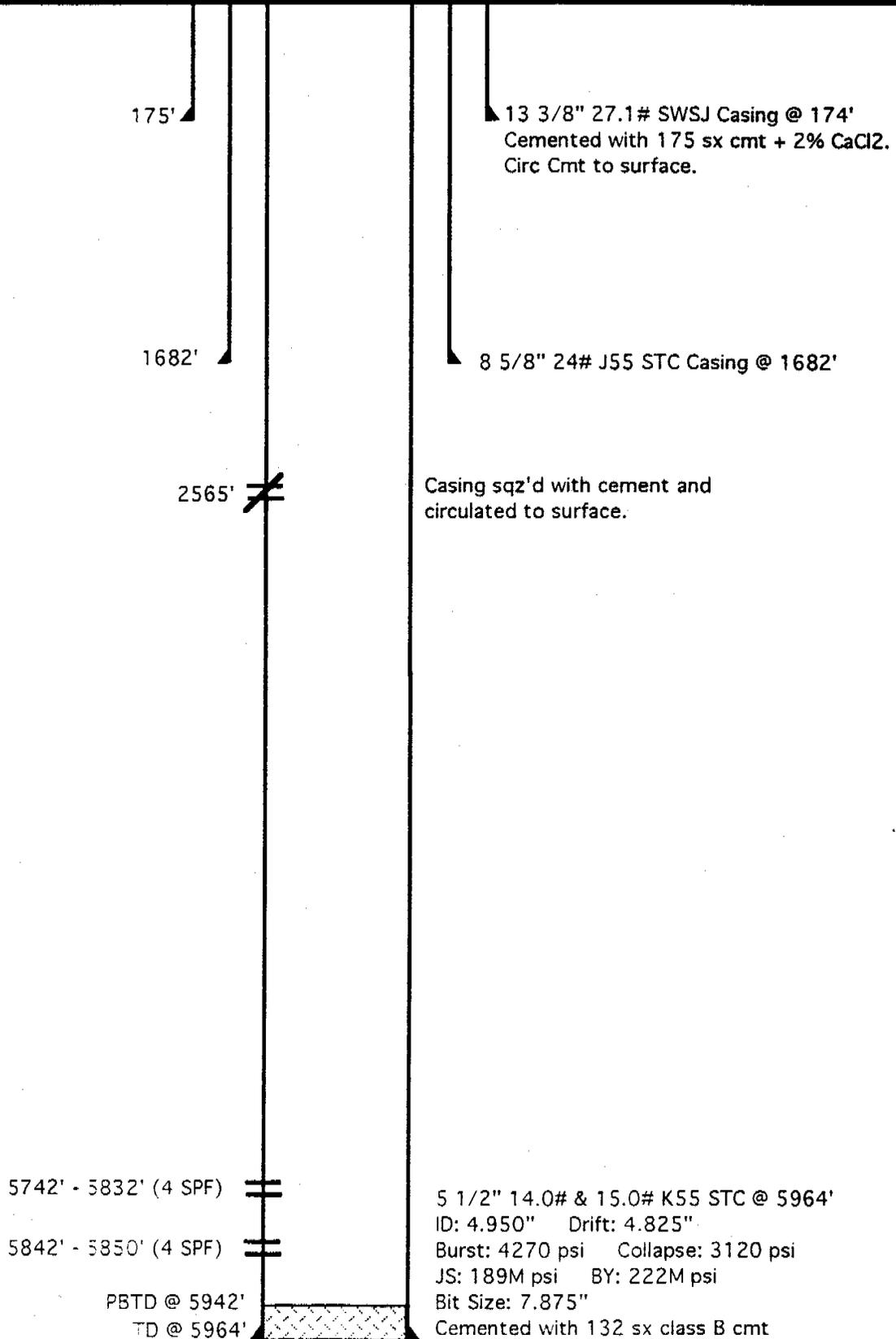
-- San Juan County, Utah  
Sec 29, TWP 41S, RNG 24E  
1825' FEL & 1970' FNL  
5 miles SSE of Montezuma Creek, Utah

# RATHERFORD UNIT No. 29-32 EXISTING WELLSKETCH

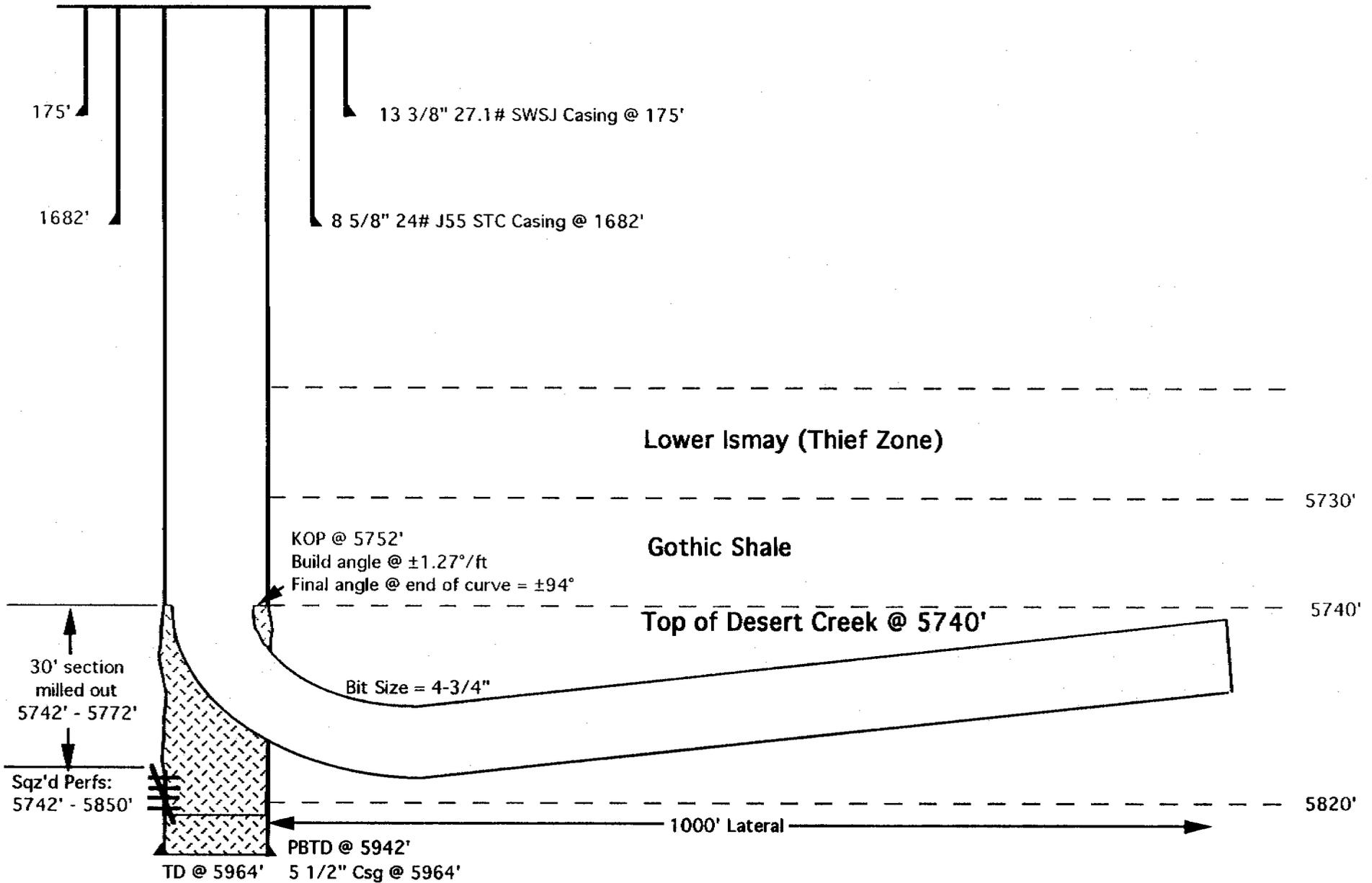
GL: 5012'  
KB: 5023'  
ZERO: 11' AGL

API No. 4303715339  
Latitude: 37.195014332  
Longitude: -109.3015141

Spud Date: 1958



# PROPOSED HORIZONTAL RATHERFORD UNIT #29-32 WIW



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 07/19/94

API NO. ASSIGNED: 43-037-15339

WELL NAME: RATHERFORD UNIT 29-32 RE-ENTRY  
OPERATOR: MOBIL EXPL & PROD (N7370)

PROPOSED LOCATION:  
SWNE 29 - T41S - R24E  
SURFACE: 1951-FNL-1755-FEL  
BOTTOM:  
SAN JUAN COUNTY  
GREATER ANETH FIELD (365)

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

LEASE TYPE: IND  
LEASE NUMBER: 14-20-603-407

PROPOSED PRODUCING FORMATION: DSCR

RECEIVED AND/OR REVIEWED:

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

LOCATION AND SITING:

R649-2-3. Unit: LLTK 68931A  
 R649-3-2. General.  
 R649-3-3. Exception.  
 Drilling Unit.  
Board Cause no: #  
Date: ~~2-2-70~~

COMMENTS: MULTI POINT SURVEY & BHL PLAT SHOULD BE  
REQUIRED

STIPULATIONS:

1 Directional Drilling

**RATHERFORD UNIT**  
**1993 FIELD REVIEW AND PLAN OF DEVELOPMENT FOR 1994**

The following construction and capital projects are anticipated to be initiated and/or completed in 1994.

1. Add additional pumps to water injection station.
2. Convert 13 wells from production injection.
3. Drill 1 injection well.
4. Upgrade production facilities at 3 satellites.

The status of 1993 projects are detailed as follows:

(Note Mobil did not submit the 1993 Development Plan. Phillips, the Operator in 1992 did.)

1. Drilled and completed 3 new wells.
2. Modified the water injection station.

(See attached 1993 Annual Report)



**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)

July 28, 1994

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

Re: Ratherford Unit 29-32 Well, 1951' FNL, 1755' FEL, SW NE, Sec. 29, T. 41 S., R. 24 E., San Juan County, Utah

Gentlemen:

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

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

1. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, submittal of a complete angular deviation and directional survey report is required.
2. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
3. Notification to the Division within 24 hours after drilling operations commence.
4. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
5. Submittal of the Report of Water Encountered During Drilling, Form 7.



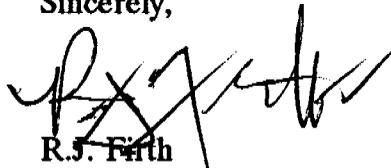
Page 2

Mobil Exploration & Producing U.S. Inc.  
Ratherford Unit 29-32 Well  
July 28, 1994

6. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.
7. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-037-15339.

Sincerely,



R.J. Firth  
Associate Director

ldc

Enclosures

cc: San Juan County Assessor

Bureau of Land Management, Moab District Office

WOI1



**BECFIELD**  
**DRILLING SERVICES**

August 24, 1994

Mr. Steve Munsel  
Mobil Production  
P.O. Box 633  
Midland, Texas 79702

RE: RATHERFORD UNIT #29-32  
SAN JUAN COUNTY, UTAH  
DIRECTIONAL DRILLING REPORT

Dear Mr. Munsel:

Enclosed is a report of the final surveys and well plots of the directional drilling operations for the above referenced well. This operation employed BecField Drilling Services from August 2, 1994 through August 17, 1994 to drill the above referenced well.

Should additional information be required, a BecField representative will be available to discuss this operation in detail at your convenience.

Sincerely,



David B. Gaudin  
District Drilling Engineer

DBG/ams

enclosures

< BECFIELD SURVEY & TARGET TRACKING PROGRAM >

OPERATOR: MOBIL EXPL & PROD  
 WELL: RATHERFORD UNIT 29-32  
 LOCATION: SAN JUAN COUNTY, UTAH

START: 08/02/94  
 FINISH: 08/17/94  
 BECFIELD DIR.COORDINATOR  
 LOU HOLDER  
 JEFF MYERS  
 12.3 DEG applied = TRUE

Survey number 0 is a Tie-In  
 to a "Finder" Gyro survey.

< MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 315 >

SUR NUM	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100
0	5700	0.3	352.9	5699.7	-28.9	6.2	-24.8	
1	5753	2.9	334.0	5752.7	-27.6	5.6	-23.4	5.0
2	5755	4.0	329.2	5754.7	-27.5	5.5	-23.3	56.8
3	5757	5.6	327.8	5756.7	-27.3	5.4	-23.2	80.2
4	5759	7.5	328.1	5758.7	-27.1	5.3	-22.9	95.0
5	5761	9.6	327.8	5760.6	-26.9	5.2	-22.6	105.0
6	5763	11.9	328.8	5762.6	-26.6	5.0	-22.3	115.4
7	5765	14.3	329.0	5764.6	-26.2	4.7	-21.8	120.0
8	5767	16.9	329.3	5766.5	-25.7	4.4	-21.3	130.1
9	5769	19.5	329.5	5768.4	-25.2	4.1	-20.7	130.0
10	5771	22.1	330.4	5770.2	-24.5	3.8	-20.0	131.0
11	5773	24.9	331.2	5772.1	-23.9	3.4	-19.3	140.9
12	5775	27.4	331.9	5773.9	-23.1	3.0	-18.4	125.9
13	5777	30.5	332.8	5775.6	-22.2	2.5	-17.5	156.5
14	5779	33.3	334.1	5777.3	-21.3	2.0	-16.5	144.1
15	5781	36.0	334.5	5779.0	-20.2	1.6	-15.4	135.5
16	5783	38.6	335.5	5780.6	-19.2	1.0	-14.3	133.5
17	5785	41.4	336.1	5782.1	-18.0	0.5	-13.1	141.3
18	5787	44.0	336.8	5783.6	-16.7	-0.0	-11.8	132.1
19	5789	46.7	337.1	5785.0	-15.4	-0.6	-10.5	135.4
20	5791	49.0	337.1	5786.3	-14.1	-1.2	-9.1	115.0
21	5793	51.6	338.1	5787.6	-12.6	-1.7	-7.7	135.6
22	5795	54.2	338.6	5788.8	-11.2	-2.3	-6.2	131.5
23	5797	55.9	337.0	5789.9	-9.6	-3.0	-4.7	107.3
24	5799	58.1	337.6	5791.0	-8.1	-3.6	-3.2	112.8
25	5801	60.4	337.9	5792.0	-6.5	-4.3	-1.6	115.7
26	5803	63.3	338.4	5793.0	-4.9	-4.9	0.0	146.7
27	5805	65.7	338.7	5793.9	-3.2	-5.6	1.7	120.8
28	5807	68.2	338.9	5794.6	-1.5	-6.2	3.4	125.3
29	5809	70.9	339.4	5795.3	0.3	-6.9	5.1	137.0
30	5811	73.2	339.9	5796.0	2.1	-7.6	6.8	117.4
31	5813	75.2	340.5	5796.5	3.9	-8.2	8.6	104.1
32	5815	77.0	340.9	5797.0	5.7	-8.9	10.3	92.1
33	5820	80.2	341.4	5798.0	10.3	-10.4	14.7	64.7
34	5825	81.5	341.9	5798.8	15.0	-12.0	19.1	27.8
35	5830	82.0	341.0	5799.5	19.7	-13.6	23.5	20.4
36	5835	82.7	341.2	5800.1	24.4	-15.2	28.0	14.6
37	5840	83.3	340.1	5800.8	29.1	-16.8	32.5	24.9
38	5845	84.0	338.5	5801.3	33.7	-18.6	37.0	34.7
39	5850	84.3	337.5	5801.8	38.4	-20.4	41.6	20.8

< BECFIELD SURVEY & TARGET TRACKING PROGRAM >

OPERATOR: MOBIL EXPL & PROD  
 WELL: RATHERFORD UNIT 29-32  
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SUR NUM	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100
40	5855	84.3	336.5	5802.3	42.9	-22.4	46.2	19.9
41	5860	84.1	335.8	5802.8	47.5	-24.4	50.8	14.5
42	5865	83.7	335.0	5803.3	52.0	-26.5	55.5	17.8
43	5870	83.5	334.4	5803.9	56.5	-28.6	60.2	12.6
44	5875	83.4	333.9	5804.5	61.0	-30.8	64.9	10.1
45	5880	83.3	333.1	5805.1	65.4	-33.0	69.6	16.0
46	5885	83.4	332.4	5805.6	69.8	-35.2	74.3	14.0
47	5890	83.4	331.5	5806.2	74.2	-37.6	79.0	17.9
48	5895	83.5	330.4	5806.8	78.6	-40.0	83.8	21.9
49	5900	83.7	329.2	5807.3	82.8	-42.5	88.6	24.2
50	5905	84.1	328.0	5807.9	87.1	-45.1	93.5	25.2
51	5910	85.1	326.7	5808.3	91.3	-47.8	98.3	32.7
52	5915	86.3	325.4	5808.7	95.4	-50.6	103.2	35.3
53	5920	88.0	323.9	5809.0	99.5	-53.4	108.1	45.3
54	5925	90.2	322.5	5809.0	103.5	-56.4	113.1	52.2
55	5930	92.0	323.9	5808.9	107.5	-59.4	118.0	45.6
56	5935	93.7	323.2	5808.7	111.5	-62.4	123.0	36.8
57	5940	95.2	322.5	5808.3	115.5	-65.4	127.9	33.1
58	5945	97.0	321.8	5807.8	119.4	-68.5	132.8	38.6
59	5950	97.4	321.1	5807.2	123.3	-71.5	137.8	16.0
60	5960	98.6	320.3	5805.8	131.0	-77.8	147.6	14.4
61	5970	98.7	319.6	5804.3	138.5	-84.2	157.5	7.0
62	5980	97.1	317.0	5802.9	145.9	-90.8	167.4	30.3
63	5990	94.8	314.8	5801.8	153.1	-97.7	177.3	31.7
64	6000	92.6	313.2	5801.2	160.0	-104.9	187.3	27.2
65	6010	91.9	311.3	5800.8	166.7	-112.3	197.3	20.2
66	6020	92.4	310.2	5800.4	173.2	-119.8	207.2	12.1
67	6030	94.2	309.9	5799.9	179.7	-127.5	217.2	18.2
68	6040	95.5	309.8	5799.0	186.0	-135.1	227.1	13.0
69	6050	96.9	308.4	5797.9	192.3	-142.8	237.0	19.7
70	6060	98.6	308.5	5796.6	198.5	-150.6	246.8	17.0
71	6070	99.5	308.8	5795.0	204.6	-158.3	256.6	9.5
72	6080	100.1	308.8	5793.3	210.8	-166.0	266.4	6.0
73	6090	100.9	308.8	5791.5	217.0	-173.7	276.2	8.0
74	6100	101.0	308.9	5789.6	223.1	-181.3	286.0	1.4
75	6110	100.4	308.7	5787.7	229.3	-189.0	295.7	6.3
76	6120	99.5	308.7	5786.0	235.4	-196.6	305.5	9.0
77	6130	97.0	309.0	5784.6	241.7	-204.4	315.4	25.2
78	6140	95.1	308.4	5783.5	247.9	-212.1	325.3	19.9
79	6150	95.0	308.4	5782.6	254.1	-219.9	335.2	1.0

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< MINIMUM CURVATURE CALCULATIONS(SPE-3362)

PROPOSED DIRECTION 315 >

SUR NUM	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100
80	6160	95.6	309.5	5781.7	260.3	-227.7	345.1	12.5
81	6170	95.6	307.9	5780.7	266.5	-235.4	354.9	15.9
82	6180	96.2	307.6	5779.7	272.6	-243.3	364.8	6.7
83	6190	96.3	307.6	5778.6	278.7	-251.2	374.7	1.0
84	6200	96.2	307.5	5777.5	284.8	-259.1	384.5	1.4
85	6210	96.7	307.3	5776.4	290.8	-266.9	394.4	5.4
86	6220	97.9	307.1	5775.1	296.8	-274.8	404.2	12.2
87	6230	98.5	306.9	5773.7	302.7	-282.8	414.0	6.3
88	6240	97.6	307.0	5772.3	308.7	-290.7	423.8	9.1
89	6250	94.6	307.0	5771.2	314.7	-298.6	433.7	30.0
90	6260	92.9	306.8	5770.6	320.7	-306.6	443.5	17.1
91	6270	93.6	306.9	5770.0	326.7	-314.6	453.4	7.1
92	6280	94.8	306.9	5769.3	332.6	-322.5	463.3	12.0
93	6290	95.7	307.2	5768.4	338.6	-330.5	473.2	9.5
94	6300	94.9	307.0	5767.5	344.7	-338.4	483.0	8.2
95	6310	94.3	306.6	5766.6	350.6	-346.4	492.9	7.2
96	6320	94.2	306.4	5765.9	356.6	-354.4	502.7	2.2
97	6330	94.2	306.1	5765.2	362.5	-362.5	512.6	3.0
98	6340	94.6	306.0	5764.4	368.3	-370.5	522.5	4.1
99	6350	95.1	305.8	5763.6	374.2	-378.6	532.3	5.4
100	6360	95.1	306.3	5762.7	380.0	-386.7	542.1	5.0
101	6370	94.3	305.7	5761.9	385.9	-394.7	552.0	10.0
102	6380	93.7	305.5	5761.2	391.7	-402.8	561.8	6.3
103	6390	92.9	305.8	5760.6	397.5	-411.0	571.7	8.5
104	6400	92.2	305.9	5760.1	403.4	-419.0	581.5	7.1
105	6410	90.8	306.7	5759.9	409.3	-427.1	591.4	16.1
106	6420	89.0	307.7	5759.9	415.3	-435.1	601.3	20.6
107	6430	88.1	308.3	5760.1	421.5	-442.9	611.2	10.8
108	6440	87.4	309.0	5760.5	427.7	-450.7	621.2	9.9
109	6450	86.9	309.5	5761.0	434.0	-458.5	631.1	7.1
110	6460	86.5	310.3	5761.6	440.4	-466.1	641.0	8.9
111	6470	86.2	310.7	5762.2	446.9	-473.7	651.0	5.0
112	6480	86.1	311.1	5762.9	453.5	-481.3	661.0	4.1
113	6490	86.2	311.6	5763.6	460.0	-488.8	670.9	5.1
114	6500	86.3	312.9	5764.2	466.8	-496.1	680.9	13.0
115	6510	86.9	314.7	5764.8	473.7	-503.4	690.9	18.9
116	6520	87.0	316.3	5765.4	480.8	-510.4	700.8	16.0
117	6530	86.9	315.0	5765.9	487.9	-517.3	710.8	13.0
118	6540	87.3	315.6	5766.4	495.0	-524.4	720.8	7.2
119	6550	87.5	315.6	5766.9	502.2	-531.3	730.8	2.0

< BECFIELD SURVEY & TARGET TRACKING PROGRAM >

OPERATOR: MOBIL EXPL & PROD  
 WELL: RATHERFORD UNIT 29-32  
 LOCATION: SAN JUAN COUNTY, UTAH

START: 08/02/94  
 FINISH: 08/17/94  
 BECFIELD DIR.COORDINATOR  
 LOU HOLDER  
 JEFF MYERS  
 12.3 DEG applied = TRUE

Survey number 0 is a Tie-In  
 to a "Finder" Gyro survey.

< MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 315 >

SUR NUM	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100
120	6560	87.7	315.5	5767.3	509.3	-538.3	740.8	2.2
121	6570	88.0	318.1	5767.7	516.6	-545.2	750.8	26.2
122	6580	88.0	318.6	5768.0	524.0	-551.8	760.8	5.0
123	6590	88.0	318.8	5768.4	531.6	-558.4	770.7	2.0
124	6600	88.2	319.1	5768.7	539.1	-565.0	780.7	3.6
125	6610	88.9	319.4	5768.9	546.7	-571.5	790.7	7.6
126	6620	90.0	319.9	5769.0	554.3	-578.0	800.6	12.1
127	6630	90.8	320.2	5769.0	561.9	-584.4	810.6	8.5
128	6640	91.7	320.6	5768.7	569.7	-590.8	820.5	9.8
129	6650	92.0	320.8	5768.4	577.4	-597.1	830.5	3.6
130	6660	92.5	321.1	5768.0	585.1	-603.4	840.4	5.8
131	6670	93.0	321.1	5767.5	592.9	-609.7	850.4	5.0
132	6680	92.9	321.3	5767.0	600.7	-615.9	860.3	2.2
133	6690	92.7	321.0	5766.5	608.5	-622.2	870.2	3.6
134	6700	92.7	320.7	5766.1	616.2	-628.5	880.2	3.0
135	6710	93.0	321.0	5765.6	624.0	-634.8	890.1	4.2
136	6720	93.5	321.5	5765.0	631.8	-641.1	900.0	7.1
137	6730	93.9	323.5	5764.4	639.7	-647.1	909.9	20.4
138	6740	94.7	324.3	5763.6	647.7	-653.0	919.8	11.3
139	6750	95.5	325.1	5762.7	655.9	-658.8	929.6	11.3
140	6760	95.9	325.0	5761.7	664.0	-664.5	939.4	4.1
141	6770	96.2	324.7	5760.7	672.1	-670.2	949.2	4.2
142	6775	96.3	324.8	5760.1	676.2	-673.1	954.1	2.8
143	6797	96.7	325.2	5757.6	694.1	-685.6	975.6	2.6

Survey No.'s 1 thru 142 Tensor All-Angle Steering Tool Records.  
 Survey No. 143 is a projection to bit-depth.  
 Bottom Hole location from Surface Location.  
 Horizontal Displacement = 976 feet  
 Displacement Bearing = North 44.47 West (TRUE)

**BECFIELD**  
DRILLING SERVICES

MOBIL EXPL & PROD  
RATHERFORD NO. 29-32  
SAN JUAN COUNTY, UTAH

10908 Metronome Houston TX 77043 DFF: (713) 973-1700 Fax: (713) 932-2398

P. O. Box 633 Midland, Texas 79702 DFF: (214) 688-2005 Fax: (915) 688-1593

Date: 8/23/94

Drawn By: DBG

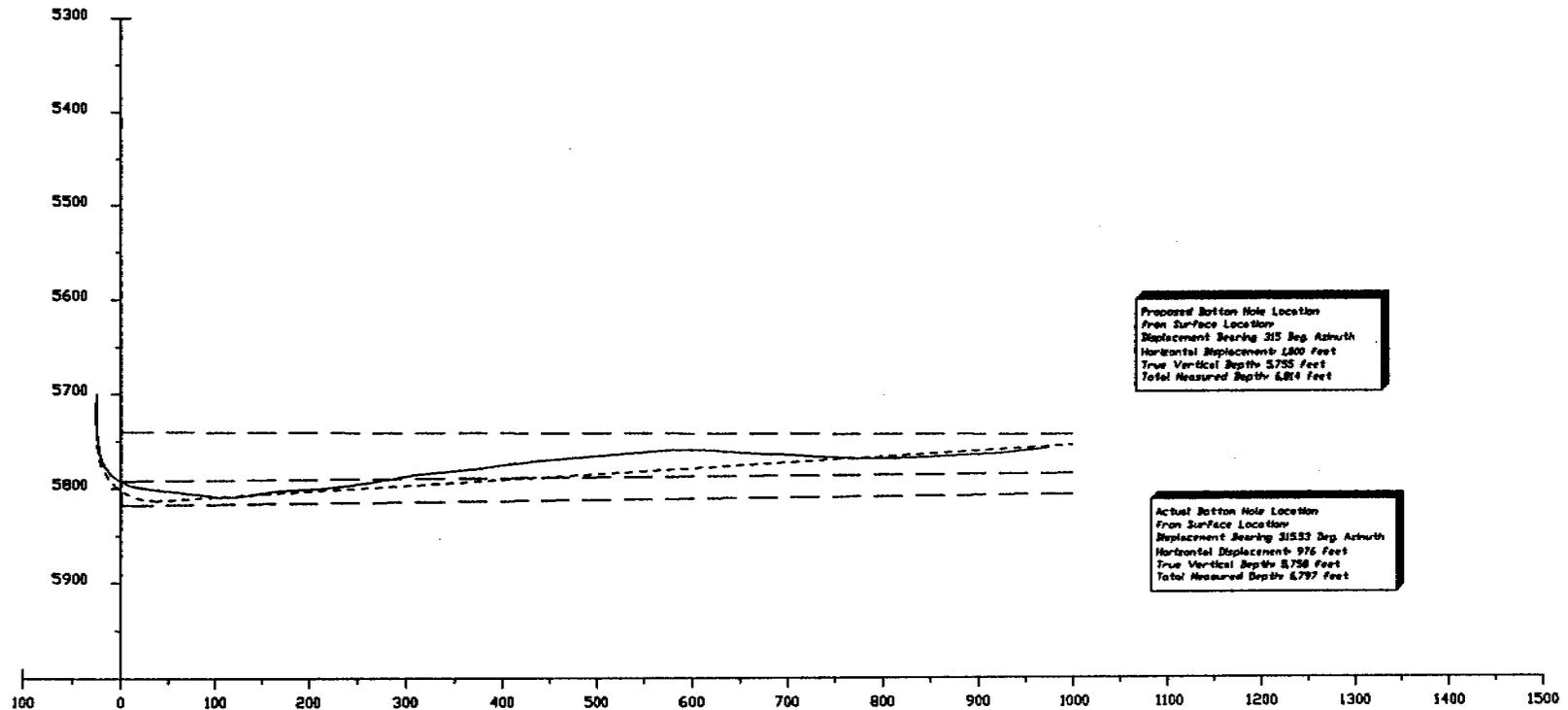
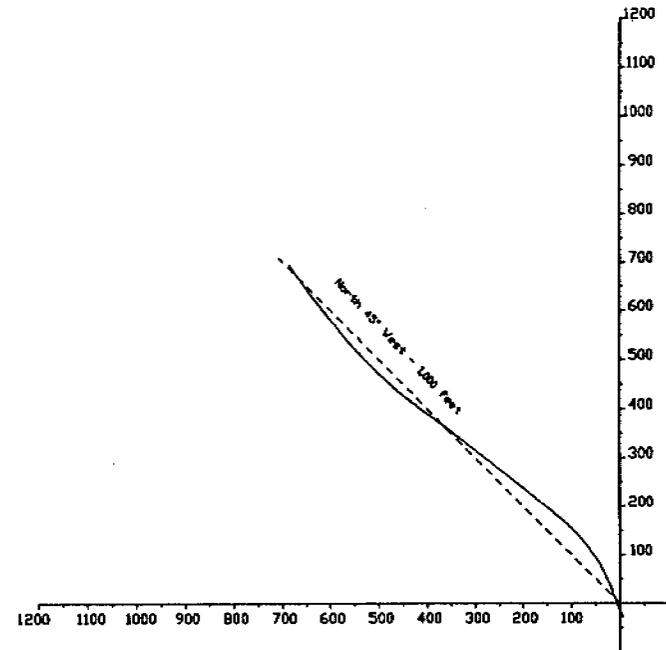
**HORIZONTAL PROJECTION**

The Surface Location on this drawing is represented by the coordinates 48

Lesser Lines and Bore Lines are drawn in relation to the Surface Location



Magnetic Dec: 123° E



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

SUBMIT IN DUPLICATE\*

\*See other instructions on reverse side

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

DTS

**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. RESVR.  Other: **RE-ENTRY SIDETRACK ONE PZ**

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 **1951' FNL, 1755' FEL**  
At top prod. interval reported below  
At total depth **694' FNL, 685' FWL**

14. PERMIT NO. **43-037-15339** DATE ISSUED **07/19/94**

5. LEASE DESIGNATION AND SERIAL NO.  
**14-20-0603-407**

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

7. UNIT AGREEMENT NAME  
**RATHERFORD UNIT**

8. FARM OR LEASE NAME, WELL NO.  
**RATHERFORD 29-32**

9. API WELL NO.  
**43-037-15339**

10. FIELD AND POOL, OR WILDCAT  
**GREATER ANETH**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**SEC. 29, T41S, R24E**

12. COUNTY OR PARISH  
**SAN JUAN**

13. STATE  
**UT**

15. DATE SPUDDED  
**N/A 7-89-94**

16. DATE T.D. REACHED  
**08/15/94**

17. DATE COMPL. (Ready to prod.)  
**08/28/94**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*  
**GL 5012'**

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD  
**6797/5758**

21. PLUG, BACK T.D., MD & TVD  
**6797/5758**

22. IF MULTIPLE COMPL., HOW MANY\* **NO**

23. INTERVALS DRILLED BY  
**X**

ROTARY TOOLS  
CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*  
**5753-5809' (DSCO)**

25. WAS DIRECTIONAL SURVEY MADE  
**YES**

26. TYPE ELECTRIC AND OTHER LOGS RUN

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"	27.1#	174'		175 SX	
8-5/8"	24#	1682'		455 SX	
5-1/2"	15 & 14#	5964		132 SX	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5851'	

31. PERFORATION RECORD (Interval, size and number)  
**5753-5809' W/975' LATERAL SECTION**

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5631'	5.5 CMT RETAINER
5742-5850'	SQZD W/150 SX "G"; TAILED W/
	150 SX CL "G"
5931-5528'	SPOTTED W/50 SX CL "G"

33.\* PRODUCTION

DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) **POW**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS - OIL RATIO
10/19/94	24			154	537	153	3487
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)	
34	34						

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

35. LIST OF ATTACHMENTS \_\_\_\_\_

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

SIGNED Shirley Todd TITLE ENV. & REG. TECHNICIAN DATE 10/06/94

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

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

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

**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. 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) 688-2586**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface **1951' FNL, 1755' FEL**  
At top prod. interval reported below  
  
At total depth **694' FNL, 685' FWL**

5. LEASE DESIGNATION AND SERIAL NO.  
**14-20-0603-407**

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

7. UNIT AGREEMENT NAME  
**RATHERFORD UNIT**

8. FARM OR LEASE NAME, WELL NO.  
**RATHERFORD 29-32**

9. API WELL NO.  
**43-037-15339**

10. FIELD AND POOL, OR WILDCAT  
**GREATER ANETH**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**SEC. 29, T41S, R24E**

14. PERMIT NO. **43-037-15339** DATE ISSUED **07/19/94**

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

15. DATE SPUDDED **N/A 7-29-94** 16. DATE T.D. REACHED **08/15/94** 17. DATE COMPL. (Ready to prod.) **08/28/94** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **GL 5012'** 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **6797/5758** 21. PLUG, BACK T.D., MD & TVD **6797/5758** 22. IF MULTIPLE COMPL., HOW MANY\* **NO** 23. INTERVALS DRILLED BY **X** ROTARY TOOLS **X** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*  
**5753-5809' (DSCA)**

25. WAS DIRECTIONAL SURVEY MADE **YES**

26. TYPE ELECTRIC AND OTHER LOGS RUN

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"	27.1#	174'		175 SX	
8-5/8"	24#	1682'		455 SX	
5-1/2"	15 & 14#	5964		132 SX	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5851'	

31. PERFORATION RECORD (Interval, size and number)  
**5753-5809' W/975' LATERAL SECTION**

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5631'	5.5 CMT RETAINER
5742-5850'	SQZD W/150 SX "G"; TAILED W/
	150 SX CL "G"
5931-5528'	SPOTTED W/50 SX CL "G"

33.\* PRODUCTION

DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) \_\_\_\_\_

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

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

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

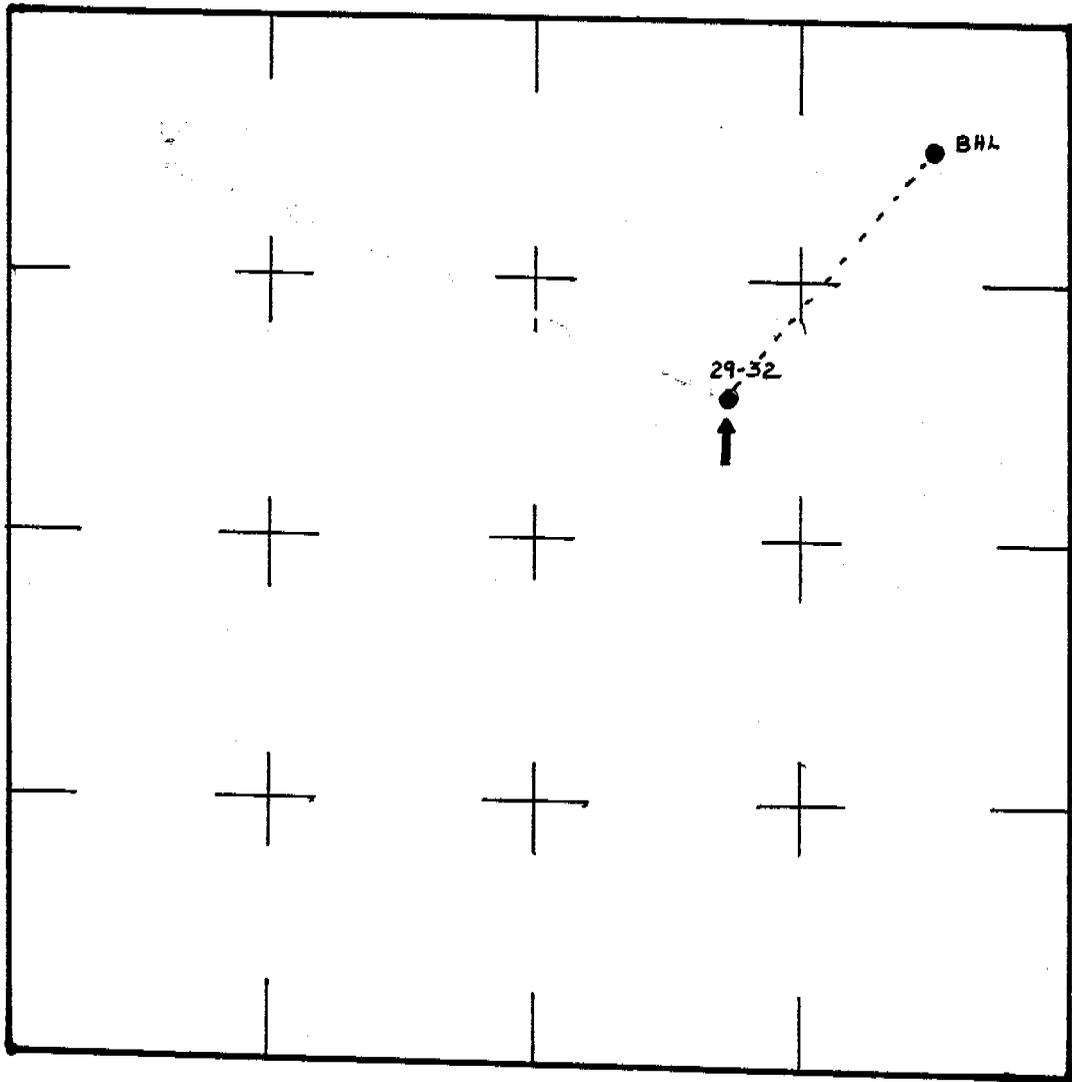
35. LIST OF ATTACHMENTS \_\_\_\_\_

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

SIGNED Shirley Todd TITLE **ENV. & REG. TECHNICIAN** DATE **10/06/94**

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

MOBIL EXPLORATION & PRODUCING U.S. INC.  
as Agent for MEPNA & Mobil Oil Corp.



RATHERFORD UNIT #29-32  
SEC. 29, T41S, R24E  
1951' FNL, 1755' FEL  
BHL 694' FNL, 685' FWL  
315° AZIMUTH

Scale 1" = 1,000'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCT 28 1994

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

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)  
**1951' FNL, 1755' FEL; SEC.29, T41S, R24E**

5. Lease Designation and Serial No.

**14-20-0603-407**

6. If Indian, Allottee or Tribe Name

**NAVAJO TRIBAL**

7. If Unit or CA. Agreement Designation

**RATHERFORD UNIT**

8. Well Name and No.

**RATHERFORD UNIT 29-32**

9. API Well No.

**43-037-15339**

10. Field and Pool, or exploratory Area

**GREATER ANETH**

11. County or Parish, State

**SAN JUAN UT**

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

TYPE OF SUBMISSION

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

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

07/22/94 **MIRU. UNSEAT PUMP, POOH W/RODS & PUMP. ND WELLHEAD, NU BOP. POOH W/TBG. RIH W/BIT & SCRAPER TO 5925' & TAGGED FILL.**

07/23/94 **SET 5.5" CMT RET @ 5631. LOADED ANNULUS W/90 BBLS FWTR & PRESS TEST TO 500#. OK. PRESS TEST TBG TO 3000#. OK. PUMPED INTO DESERT CREEK PERFS 5742-5850' DOWN 2.875" TBG. PUMPED 10,000 GALS MATROL INTO PERFS. SQZD PERFS 5742-5850' W/150 SX "G" + 10% CAL-SEAL + 3% HALAD 344 + .2% CFR-3 (32 BBLS OF 15.6#/GAL SLURRY) & TAILED IN W/150 SX "G" + 2 PPS MICRO-BOND + .15% HALAD 322 + .1% CFR3 (32 BBLS OF 15.6#/GAL SLURRY. SQZD OFF @ 1500# W/20 BBLS OF CMT IN FORMATION. PULLED OUT OF RETAINER @ 5631'. REV CIRC OUT 11 BBLS OF CMT. REV. CIR. & WASH OUT CMT FROM 4688-5065. CMT FIRM @ 5065'. CIRC. HOLE CLEAN.**

07/24/94 **DRILL CMT FROM 5041-5217'. CIRC. HOLE CLEAN.**

07/25/94 **CONT DRLG CMT FROM 5217-5618'. CIRC HOLE CLEAN & PRESS TEST CSG TO 500# F/30 MIN. HELD OK.**

07/26/94 **CONT DRLG CMT + CMT RET F/5618-5742'. CIRC HOLE CLEAN.**

07/27/94 **CONT DRLG CMT FROM 5742-5865'. RAN BIT TO 5926' AND STOPPED. CLEANED OUT F/5926-5930'. CIRC HOLE CLEAN & PRESS TEST TO 500#. LOST 75# IN 30 MIN. PIPE RAMS LEAKING. FLUSHED FLOW LINE W/FWTR. CUT OFF FLOW LINE BELOW GROUND LEVEL. CUT**

(CONT'D ON BACK)

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

Signed *Shirley Todd*

Title **ENV. & REG. TECHNICIAN**

Date **09/23/94**

(This space for Federal or State office use)

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

Conditions of approval, if any:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
MAY 3 1995

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.  
**14-20-0603-407**  
6. If Indian, Allottee or Tribe Name  
**MININGAJA TRIBAL**

SUBMIT IN TRIPLICATE

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

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)  
**1951' FNL, 1755' FEL; SEC.29, T41S, R24E**  
**BHL 694' FNL, 685' FWL**

7. If Unit or CA, Agreement Designation  
**RATHERFORD UNIT**

8. Well Name and No.  
**RATHERFORD 29-32**

9. API Well No.  
**43-037-15339**

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

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

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input checked="" 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.)\*

**WORK TO COMMENCE UPON APPROVAL ON AREA WIDE PERMIT FROM EPA.**

**SEE ATTACHMENT**

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

Signed Shirley Robertson Title ENV. & REG. TECHNICIAN Date 4-27-95

(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.

Ratherford Unit 29-32  
Injection Well Conversion

AFE # 4AE4

1. Lock and tag out all power sources. Clamp off polish rod. Remove horse head. RU pump and pump lines to casing annulus and kill well with lease water.
2. MI workover rig. ND pump tee. NU and PT BOP's. POH with sucker rods and rod pump laying down same. Release tubing anchor and POH standing back production tubing.
3. RIH with 4-3/4" rock bit without nozzles and casing scraper for 5-1/2", 15.5/14 lb/ft casing on 2-7/8" tubing to 5730'. POH.
4. RIH with squeeze packer on 2-7/8" tubing and set at 5720'. PT casing to 1000 psi. If PT fails, locate and squeeze casing leak using a RBP with sand dumped on top to isolate completion interval, and 100 sxs of class B cement containing 2 percent calcium chloride. Clean out cement and retest casing string to 1000 psi. Resqueeze as necessary. Wash sand off RBP and retrieve same. POH laying down workstring.
5. RIH with a Guiberson G-6 injection packer on new 2-7/8", 6.5 lb/ft J-55 KCTS (Threadmasters Torque Ring) Fluorolined Tubing to 5698'. Reverse circulate fresh water packer fluid containing 1 percent by volume of Tretolite CRW137 corrosion inhibitor/oxygen scavenger. Set packer at 5698'. PT backside to 1000 psi. ND BOP's. NU injection head (Ken Britton with Big Red Tool at 505/325-5045).

NOTE: A. All new KCTS tubing to be torque turned to 2250 ft-lbs (Tong Rentals at 512/668-9774). All connections of seal assembly and tubing to be made up using permiserts, permetek, and Baker Super B thread compound. Supervision of make-up/running KCTS tubing from Bill Allman with Permian Enterprises at 505/632-8702.

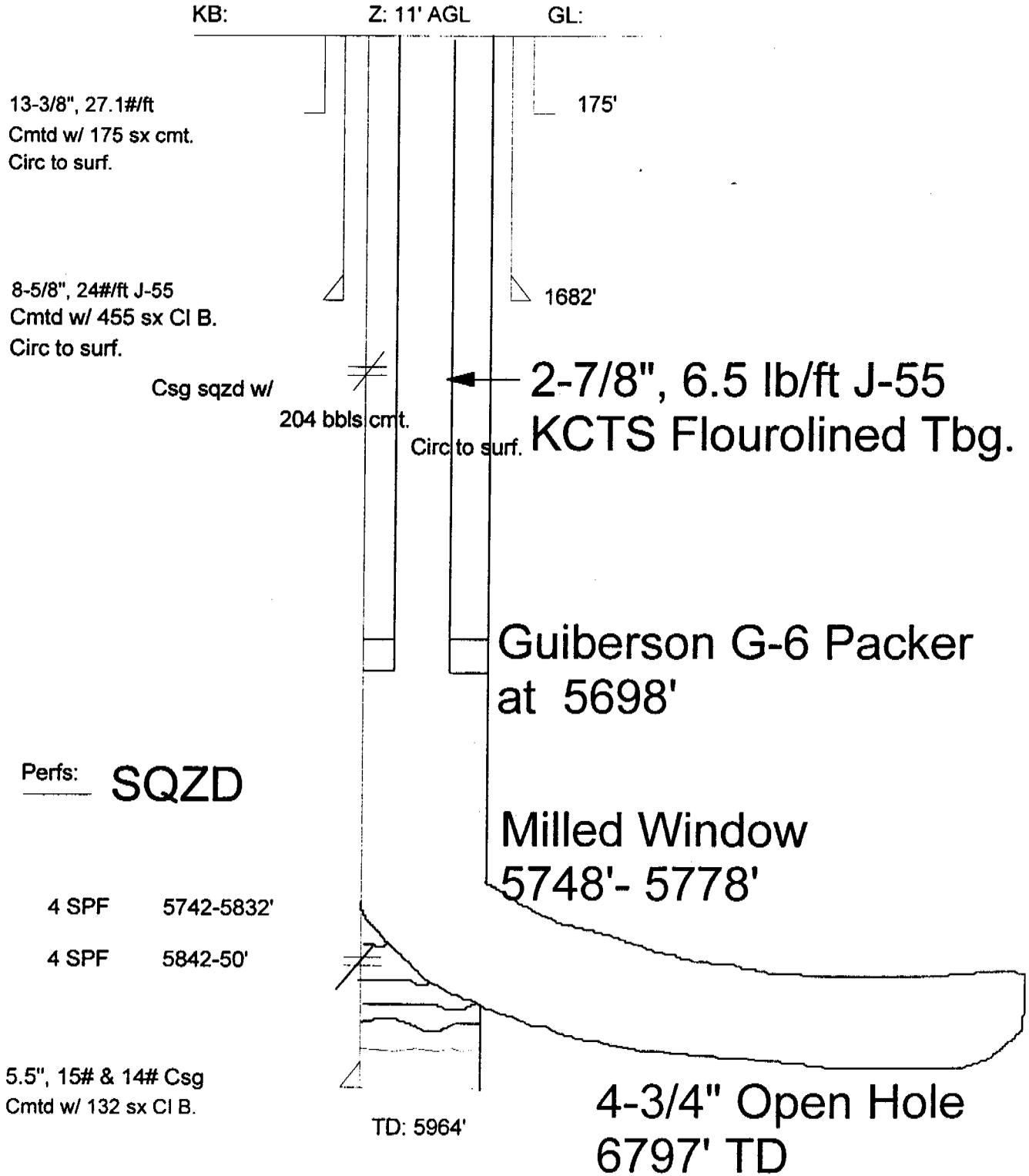
B. Rabbit tubing with 2.0" O.D. rabbit.

6. Perform Mechanical Integrity Test (MIT) for EPA. Contact Jim Walker of the Navajo EPA in Shiprock at 505/368-1040 to witness. Use chart recorder to record test. Send copies of chart to Shirley Todd, Midland - 1206 MOB, Ed Barber, Aneth, and Ratherford files. After obtaining an acceptable MIT, place well on water injection at 500 BWP.

PREPARED BY: S. S. Murphy

4AE4

# Ratherford Unit 29-32 Proposed



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.  
**14-20-603-407**

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

7. If Unit or CA, Agreement Designation  
**RATHERFORD UNIT**

8. Well Name and No.  
**RATHERFORD 29-W-32**

9. API Well No.  
**43-037-15339**

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 **INJECTOR**

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)  
**1951' FNL & 1759' FEL  
BHL - 694' FNL & 685' FWL  
SEC. 29, T41S, R24E**

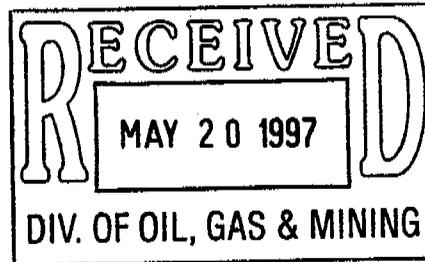
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>LINER</b>
	<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.)\*

SEE ATTACHMENT



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

Signed Shirley Houchens

Title **ENV. & REG. TECHNICIAN**

Date **05-12-97**

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

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

\* See instruction on Reverse Side

100' tax credit 7/98

ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT - 29-W-32  
14-20-603-246A  
NAVAJO TRIBAL

- 03-14-97 MIRU NAVAJO WEST, NIPPLE DOWN WELL HEAD. NIPPLE UP BOPE.  
03-15-97 SITP @ 7:30 WAS 0 PSI. SICP @ 7:30 WAS 0 PSI. RIG UP PUMP LINES,  
CIRC PIT. RELEASE PKR, POH W/TBG & PKR., MAKE UP RETV. HEAD.  
RIH TO 2818'. LATCH ONTO BRIDGE PLUG, OPEN BYPASS. POH, SWIFN  
AND SUNDAY.
- 03-18-97 WELL FLOWING 300 PSI DOWN FLOWLINE @ 7:30 A. FLOW DOWN TO  
80 PSI, BULLHEAD TBG W/10# BRINE, POOH W/WS & RBP. RU  
HALLIBURTON, RUN CCL GR LOG, RIH W/5.5" COMPOSITE BRIDGE  
PLUG SET @ 5735'. RD HALLIBURTON, RIH W/90 JTS WS, SDFN.
- 03-19-97 CIRC WELL CLEAN W/FW. POOH & LD WS. CHANGE OUT PIPE RAMS  
TO 4" RAMS, RUPU TO RUN 4" LINER IN AM. SDFN.
- 03-20-97 RU POWER TONGS, PREP TO RUN CSG. PU & RIH W/133 JTS 4" 11.34#  
J55 LINER. SET SHOE @ 5728'. DOWELL CMT 4" LINER AS FOLLOWS:  
10 BBLs CHEMICAL WASH, 10 BBL FW SPACER, 62.3 BBL 65/35 G:POZ +  
1.5 GPS D600 + 3% D65 + .5% D79 + .05 GPS D47. DISPLACE W/65 BBLs  
FW. CIRC 8 BBL TO SURFACE, PLUG BUMPED @ 2300#, FLOAT OK.  
RDMO DOWELL, WOC. TOTAL 267 SXS.
- 03-21-97 ND POPS & OLD TBG HEAD. SET CSG SLIPS W/50,000#, CUT OFF 4"  
LINER, NU NEW CSG HEAD. TEST OK TO 1000 PSI FOR 30 MIN. NU BOP  
& HYDRIL, CHANGE OVER EQUIP TO RUN 1 1/4" DP. CONT. WOC.
- 03-22-97 TEST HYDRIL & BLIND RAMS TO 250 LOW & 750 HIGH-OK. RIH  
W/BLADE BIT & A 13/16" DP, TAG @ 5729'. TEST PIPE RAMS TO 250  
LOW & 750 HIGH-OK. RU PUMP & CIRC WELL W/12 PPG MUD. SDFN &  
SUNDAY.
- 03-24-97 RU SWIVEL, DRILL W/12 PPG MUD THRU 8 FT. RUBBER CMT PLUG,  
SOE, CMT. STOP SHORT OF COMPOSITE PLUB. CIRC WELL CLEAN.  
SWISDFN.
- 03-25-97 CONT. DRILLING OUT CMT. DRILL THROUGH COMPOSITE BRIDGE  
PLUG, PRESSURE BELOW. FLOW OUT 12 PPG MUD THROUGH 2" LINE  
@ 500#. FLOW BACK TO TANK FOR 4 HRS--800 BBLs. SWITCH OVER  
TO FLOWLINE FOR NIGHT. SLOWING @ 250# THROUGH FULL OPEN  
3/4" CHOKE.
- 03-26-97 POOH W/187 JTS 1 13/16" DP. WELL FLOWING OUT BACKSIDE WHILE  
PULLING PIPE/WO FISHING ORDERS.
- 03-28-97 WELL FLOWING DOWN FLOWLINE @ 7:30 AM, 70 PSI. BLEED DOWN  
TO TANK. RU POWER TONGS, RIH W/INJECTION PKR & CMT LINED  
TBG. SET PKR @ 5644', ND BOPS, NU NEW TREE, CIRC PKR FLUID,  
TEST PKR TO 1050 FOR 30 MIN. SDFN.
- 03-29-97 RDMO PU, TOTP. RETURN TO PRODUCTION.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

MOBIL PRODUCING TX & NM INC.\*  
\*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR HPTH

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)

SEC. 29, T41S, R24E  
1951' FNL & 1755' FEL  
BHL-694' FNL & 685' FWL

5. Lease Designation and Serial No.

14-20-603-407

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 29-32

9. API Well No.

43-037-15339

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

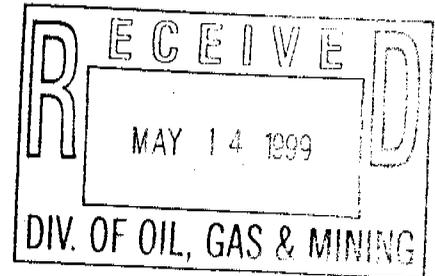
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<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>MIT CHART</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.)\*

SEE ATTACHED CHART.



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

Signed

*Shirley Houchins*

for

Title SHIRLEY HOUCHINS/ENV & REG TECH

Date

5-12-99

(This space for Federal or State office use)

Approved by \_\_\_\_\_

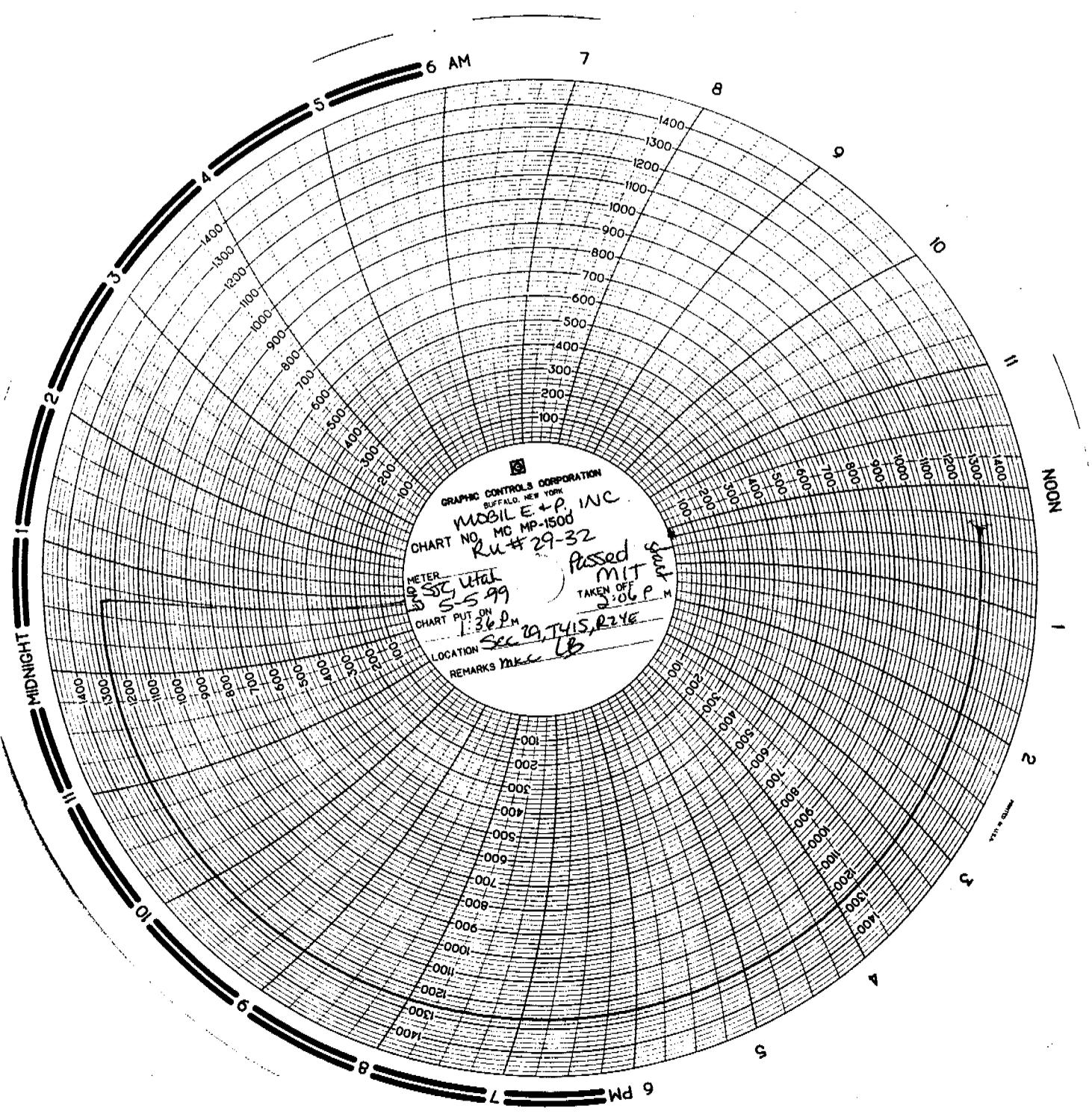
Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

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

\* See instruction on Reverse Side



GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK  
MOBILE + P, INC.  
CHART NO. MC MP-1500  
RU # 29-32

METER  
SSE Utah  
S-S 99

CHART PUT ON  
1:36 PM

LOCATION  
Sec 29, T41S, R21E

REMARKS  
Lake LB

Passed  
MIT  
TAKEN OFF  
2:06 P M

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)
MCELMO CREEK UNIT G-22			IS-DC					
4303731204	05980	41S 24E 13						
MCELMO CREEK UNIT J-24			IS-DC					
4303731205	05980	41S 25E 18						
#21-23			DSCR					
4303713754	06280	41S 24E 21						
#3-44			DSCR					
4303715031	06280	41S 24E 3						
#3-14			DSCR					
4303715124	06280	41S 24E 3						
#9-12			DSCR					
4303715126	06280	41S 24E 9						
#-14			DSCR					
4303715127	06280	41S 24E 9						
RATHERFORD UNIT 28-12 (RE-ENTRY)			DSCR					
4303715336	06280	41S 24E 28						
RATHERFORD UNIT 29-12 (RE-ENTRY)			DSCR					
4303715337	06280	41S 24E 29						
RATHERFORD UNIT 29-32 (RE-ENTRY)			DSCR					
4303715339	06280	41S 24E 29						
#29-34			DSCR					
4303715340	06280	41S 24E 29						
#30-32			DSCR					
4303715342	06280	41S 24E 30						
#3-12			DSCR					
4303715620	06280	41S 24E 3						
<b>TOTALS</b>								

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

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

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

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

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



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
JUL 31 1995  
DIV. OF OIL, GAS & MINING

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

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Designation and Serial No. H-20-603-407  
6. If Indian, Allottee or Tribe Name

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

Navajo Tribal

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

Rutherford Unit

1. Type of Well  
 Oil Well  Gas Well  Other Injector

8. Well Name and No.

29-32

2. Name of Operator  
MOBIL OIL CORPORATION

9. API Well No.

43-037-15339

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

10. Field and Pool, or Exploratory Area

Greater Aneth

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1951' FNL, 1755' FEL  
BHL - 694' FNL, 685' FWL  
Sec. 29, T41S, R24E

11. County or Parish, State

San Juan, Ut.

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

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

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.)\*

Commenced Injection on 7-13-95

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

Signed Shirley Robertson Title Env. & Reg. Technician Date 7-27-95

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS:

1-27-67 Subsequent Report of Shooting or Raising.  
 10-1-83 Operator name change: 731006 Phillips to MEPNA eff. 7-1-93:  
 \* RE-ENTRY "Horizontal DRL": 950803 OPER. Name from MEPNA  
 \* 950830 Commenced Injection effective 7-13-95

(Name File) well Log & 3 Electric Logs

DATE FILED 7-14-58 \* 7-19-94 14-20-603-407  
 LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. INDIAN 90350

DRILLING APPROVED: 7-14-58 \* 7-28-94

SPUDDED IN: 7-22-58 \* 7-29-94

COMPLETED: 8-23-58 \* 8-28-94 POW

INITIAL PRODUCTION: 1104 BOPD  $\frac{1}{2}$  in \* 154 BOPD; 537 MCF; 153 BWPD

GRAVITY A. P. I. 41.2

GOR: \* 3487

PRODUCING ZONES: 5744-5924 (DSCR) \* 5753-5809 (DSCR)

TOTAL DEPTH: 5964' \* 6797 / 5758'

WELL ELEVATION: 5015 5058 GR 5026 DF \* 5010 GR

DATE ABANDONED:

FIELD OR DISTRICT: ~~White Mesa~~ Aneth

COUNTY: San Juan

WELL NO. NAVAJO B-11 (Ratherford 29-32) ART 43-037 15339

LOCATION: 1951 1970 FT. FROM (N)  LINE, 1755 1825 FT. FROM (E)  LINE, <sup>SW</sup> NE  $\frac{1}{4}$  QUARTER - QUARTER SEC. 29

\* BHL: 1094' FNL

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
41 S	24 E	29	Phillips CONTINENTAL OIL COMPANY				MOBIL EXPLOR E PROD CO.

## GEOLOGIC TOPS:

QUATERNARY	Star Point	Sinbad	Brazer
Recent	Wahweap	PERMIAN	Pilot shale
Alluvium	Masuk	Kaibab	Madison
Lake beds	Colorado	Coconino	Leadville
Pleistocene	Mancos	Cutler 2688	Redwall
Lake beds	Upper	Hoskinnini	DEVONIAN
TERTIARY	Middle	DeChelly	Upper
Pliocene	Lower	White Rim	Middle
Humboldt	Emery	Organ Rock 3042	Lower
Salt Lake	Blue Gate	Cedar Mesa 3733	Ouray
Miocene	Ferron	Halgaite tongue	Elbert
Bishop conglomerate	Frontier	Phosphoris	Guilmette
Oligocene	Dakota	Park City	Simonson dolomite
Norwood	Burro Canyon	Rico (Goodridge)	Sevy dolomite
Eocene	Cedar Mountain	Supai	North Point
Duchesne River	Buckhorn	Bird Springs	SILURIAN
Uinta	JURASSIC	CARBONIFEROUS	Laketown dolomite
Bridger	Morrison	Pennsylvanian	ORDOVICIAN
Green River	Salt Wash	Oquirrh	Eureka quartzite
Upper	San Rafael Gr.	Weber	Pogonip limestone
Middle	Summerville	Morgan	CAMBRIAN
Lower	Bluff sandstone	Hermosa 4768	Lynch
Wasatch	Curtis	Upper	Bowman
Colton	Entrade	Lower	Tapeats
Flagstaff	Moab tongue	Molas	Ophir
Almy	Carmel	Paradox 5562	Tintic
Paleocene	Glen Canyon Gr.	A	PRE-CAMBRIAN
Current Creek	Navajo	B	ANETH 5738
North Horn	Kayento	C	
CRETACEOUS	Wingate	Manning Canyon	
Montana	TRIASSIC	Mississippian	
Mesaverde	Chinle	Chainman shale	
Price River	Shinarump 2562	Humbug	
Blackhawk	Moenkapi	Joana limestone	

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

Route original/copy to:

**Well File** \_\_\_\_\_  
(Location) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_  
(API No.) \_\_\_\_\_

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

**Other**  
**OPER NM CHG** \_\_\_\_\_

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

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

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

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

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

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

# 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

Attn: R. J. Firth  
Associate Director

DIVISION OF  
OIL, GAS & MINING

## SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

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

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

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

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

Very truly yours,



CNE/rd  
CNE8661

R. D. Baker  
Environmental Regulatory Manager

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

Routing:	
1- <del>LVC</del>	7-PL
2- <del>LWP</del>	8-SJ
3- <del>DES</del>	9-FILE
4- VLC	
5- RJF	
6- LWP	

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

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

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

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

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

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

Name: <u>** SEE ATTACHED **</u>	API: <u>037-15339</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.
- Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- Yes 6. Cardex file has been updated for each well listed above. 8-21-95
- Yes 7. Well file labels have been updated for each well listed above. 9-28-95
- Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

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

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

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

**LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY**

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

**FILMING**

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

**SUBMIT IN TRIPLICATE**

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

5. Lease Designation and Serial No.  
**14-20-603-407**

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

7. If Unit or CA, Agreement Designation  
**RATHERFORD UNIT**

8. Well Name and No.  
**RATHERFORD 29-32**

9. API Well No.  
**43-037-15339**

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

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

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator **Mobil 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)  
**1951' FNL & 1759' FEL  
BHL - 694' FNL & 685' FWL  
SEC. 29, T41S, R24E**

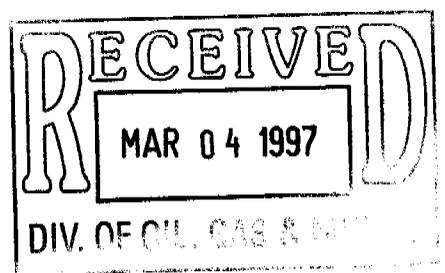
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>LINER</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.)\*

SEE ATTACHED PROCEDURE



14. I hereby certify that the foregoing is true and correct  
Signed Shirley Houchens Title ENV. & REG. TECHNICIAN Date 02-26-97

(This space for Federal or State office use)  
Approved by Accepted by the Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any: Utah Division of

**Oil, Gas and Mining**

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.

**FOR RECORD ONLY**

See instruction on Reverse Side

### Rutherford Unit #29-32

#### Liner Procedure

**Objective:** To kill well, POH w/ tubing. Then a 4" FJ liner will be run and cemented from surface to 5693'. RBlH w/ new fluorolined tubing and injection packer, RWTI.

**History:** In 1991, there was a casing leak at 2565' which was sqz'd with 204 bbls of cement (circ to surf). This well was re-entered to drill a horizontal lateral in 8/94. It was then produced for almost a year before being converted to an injector in 1995. The casing has failed the required MIT test and despite several attempts to squeeze the leak in 1996 remains unable to pass the require pressure test.

**Current Status:** SI w/ 70 jts of 2 7/8" tbg and packer in the hole with 0 SITP. There is a bridge plug at 5700'.

---

Casing:	5.5"/14#&15.5#/K55	Burst: 4270 psi
Min ID:	4.825"	Csg Volume: 129 bbl
Mud Wt:	12 #/gal	Max Anticipated SICP: 1000 psi
100 ppm H2S ROE:	11 ft	500 ppm H2S ROE: 5 ft

---

#### Equipment Needed

- **Liner on location:** 5788' 4"/11.34#/J55/FL4S (134 jts)  
Burst: 6880 psi Collapse: 7300 psi  
Makeup Loss: 2.12" Min Drift: 3.303 in  
Liner required: 5702' (132 jts)
- **Liner hand:** Fred Roberson 915-366-9861, glve 2 days notice.
- **Float Shoe:** With cement core and plastic internals, Gemoco
- **Curley's Machine Shop:** Thread float shoe, three lift nubbins, and XO for cementing head (4 1/2" 8rd box X 4" FL4S pin) All three will be shipped together.
- **Elevators, splders/ slips,** : Weatherford Enterra, Farmington
- **4 sets of pipe rams** (2 7/8", 2 3/8", 4", and 1 13/16")
- **Casing spool, 4" slips, 'C' clamp** : Big Red Tool, Farmington
- **Tongs:** Bruce Hawkins, Tong Rentals & Supply pager (505) 324-4673, home (505) 632-7648
- **Drilling Fluid:** MI Drilling Fluids, 307-856-6063
- **Bits:** 4 3/4" bit for plug
- **Mills:** 3 1/4" conebuster for drilling through CIBP and 3 1/4" blade bit with filed down leading edges for cleaning out liner, Weatherford
- **Workstring:** 5750' of 1 13/16" slinline drill pipe N80 grade, tube OD 1.66", tube ID 1.1", available from Weatherford

Approved: WG Storbeck, P. E. *WGS*  
Approved: M A Kimbro *M.A. Kimbro* 25 Feb 97  
Approved: J C Orndorff

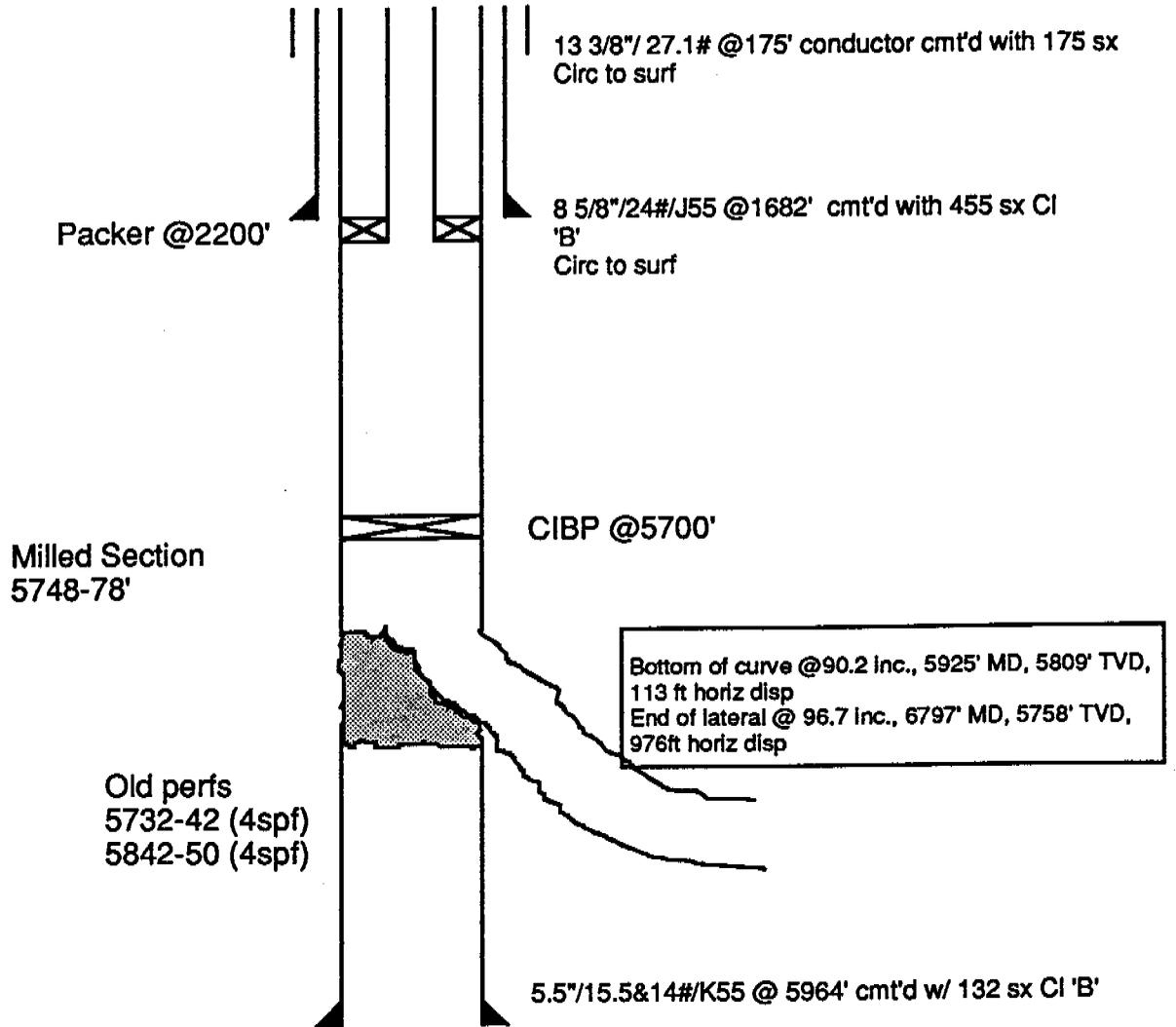
February 25, 1997

1. MIRU WSU. ND wellhead and NU the following onto the csg head:
  - csg spool for 4" liner (11", 3000# X 11", 3000#)
  - pipe and blind BOP
  - annular BOP
2. Unset packer at 2200' and circulate well with kill weight fluid.
3. If no flow or pressure, POH w/ 2 7/8" workstring and lay down packer.
4. PU 4 3/4" bit and workstring and RIH and tag plug at approx 5700'. Circ hole clean.
5. POH w/ workstring and lay down. RU elevators, slips & spiders, and tongs to handle 4" liner.
6. Using lift nubbins, PU each jt of 4" liner and make up with tongs to a torque measurement of 1300/1450/1600 ft-lbs (min/opt/max).
7. Make up cement float shoe onto first joint of liner. Run liner to 5693', this should allow the cementing head to be just a few feet above the rig floor. RU Dowell to cement.
8. Pump slurry as follows:
  - Slurry: 250 sx 35:65 (Poz:G) + 1.5 gps D600 + 1% D65 + 0.5% D79 + 0.05 gps D47
  - Slurry Density: 14 #/gal
  - Yield: 1.35 ft<sup>3</sup>/sk
  - Displacement: 65 bbls of workover fluid
  - Pump Time Req: 2 hr 40 min
  - a) Lead with 10 bbls of preflush followed by 10 bbls of fresh water spacer.
  - b) Pump cement at 01-2 bpm. Pump 250 sx of slurry.
  - c) Do not exceed a **maximum surface pressure** of 4100 psi while cementing. (The maximum pressure will be only 3500 psi using an 8.5#/gal workover fluid.)
  - d) Once volume of cement has been pumped, drop wiper plug and pump displacement volume using workover fluid. Plug should bump with 1034 psi **lift pressure**. (This will be 1640 psi using an 8.5 #/gal displacement fluid.)
9. RD Dowell and strip BOP's to set slips on 4" liner. WOC 12 hours.
10. RU 2.5 power swivel and handling tools for 1 13/16" slimline drill pipe. PU 3 1/4" bladed bit with filed down leading edges to clean out cement in liner. RIH on 1 13/16" slimline drill pipe. Continue to clean out down to bottom of float shoe @ 5693'.
11. POH w/workstring and RBIH w/ 3 1/4" conebuster to drill through the CIBP @ 5700'. Once at 5740', circulate well clean.
12. POH w/ workstring and lay down 1 13/16" workstring and PU handling tools for 2 3/8" fluoroline tubing and RIH w/ packer on 2 3/8" tubing.
13. Circ pkr fluid and set packer @ 5650'. ND BOP's and NU wellhead. RWTI.

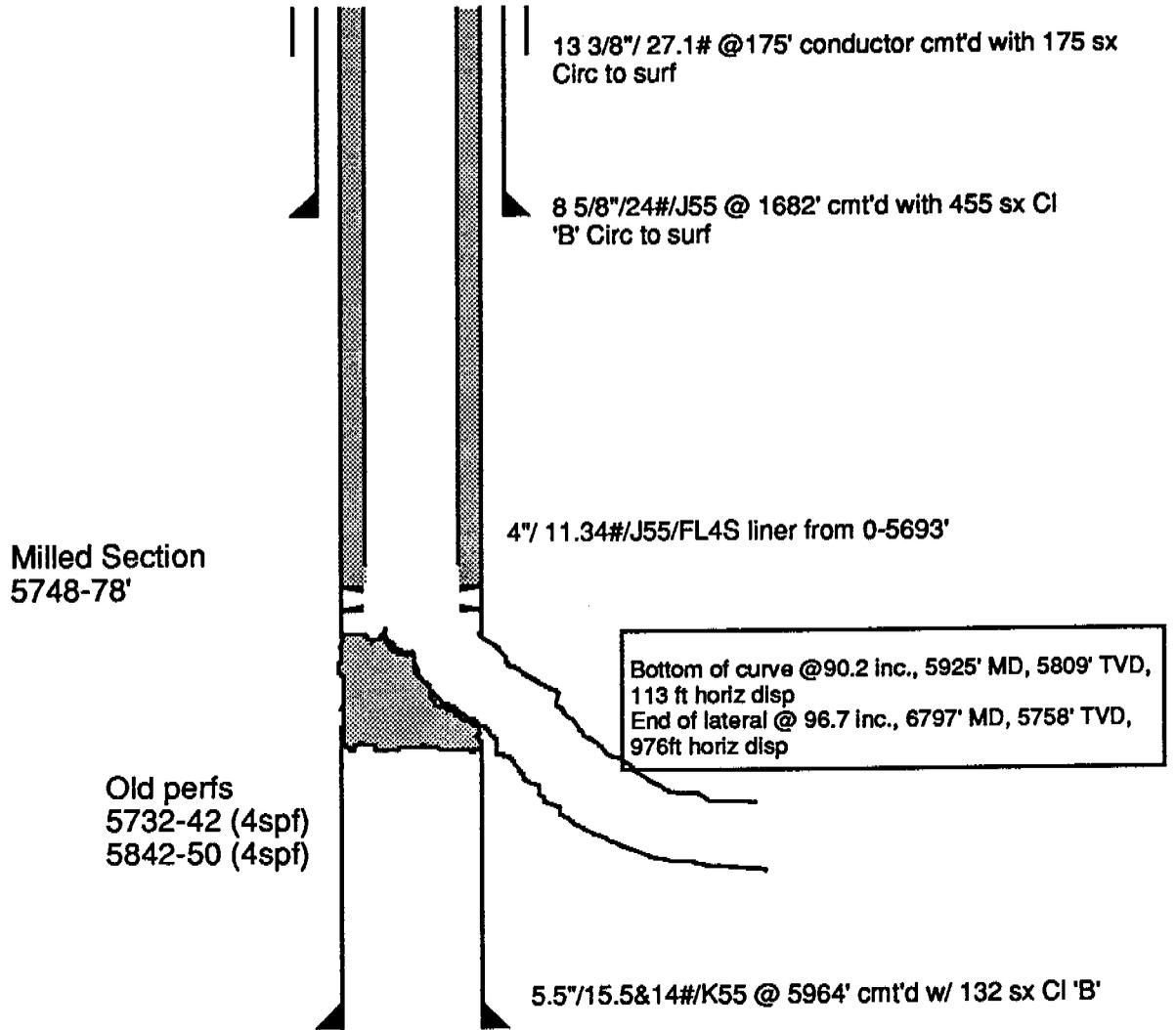
Approved: WG Storbeck, P. E.  
Approved: M A Kimbro  
Approved: J C Omdorff

February 25, 1997

# Current Ratherford Unit #29-32



# Proposed Ratherford Unit #29-32



FORM 9

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill 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.

5. LEASE DESIGNATION AND SERIAL NUMBER:  
14-20-603-407

6. IF INDIAN ALLOTTEE OR TRIBE NAME:  
Navajo Tribal

7. UNIT or CO-AGREEMENT NAME:  
Rafterford Unit

8. WELL NAME and NUMBER:  
Rafterford 29W32

9. API NUMBER:  
4303715339

10. FIELD AND POOL OR WILDCAT:  
Greater Aneth

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER  Injection Well

2. NAME OF OPERATOR:  
Mobil Producing Texas & New Mexico, Inc.

3. ADDRESS OF OPERATOR:  
P.O. Box 4358 CITY Houston STATE TX ZIP 77210-4358 PHONE NUMBER (713) 431-1197

4. LOCATION OF WELL  
ROOSTAGES AT SURFACE: 1897 FNL & 1765 CELL BHT 604 FNL & 885 FWA  
COUNTY: San Juan

QUARTER, SECTION, TOWNSHIP, RANGE, MERIDIAN: S 29, 4, 5, 12E, 36N  
STATE: UTAH

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: _____	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input 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.

(1) MIRU CTU. Test BOP and all surface equipment to 5000 psi.  
 (2) RIH w/ CT to ~5109'.  
 (3) Start pumping acid (~15,225 gals by volume mixed to 15% HCL +/- 10 gals per ft). Do not exceed 3000psi surface pressure.  
 Fluid Mixture Information per 1000 gal concentration as follows:  
 - 572.7 gals of water  
 - 379.1 gals of 36% HCL  
 - 2 gals of A261 inhibitor  
 - 3 gals of F75N Surfactant  
 - 50 gals of U68 Mutual Solvent  
 - 15 lbs of L58 Iron Reducing Agent  
 (4) Once acid is pumped, displace with injection water containing soda ash to neutralize the acid remaining in the coiled tbg.  
 (5) POOH w/ CT. RDMO CTU. RWTI.

NAME (PLEASE PRINT) Kim S. Lynch TITLE Sr. Staff Office Assistant

SIGNATURE Kim Lynch DATE January 10, 2002

(This space for EIS use only)

Accepted by the  
Utah Division of  
Oil, Gas and Mining

(See Instructions on Reverse Side)

COPY SENT TO OPERATOR  
Date: 4-23-02  
Initials: CHD

Date: 4/23/02  
By: Derek Duff

Federal Approval Of This  
Action Is Necessary

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-407
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribal
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.		7. UNIT or CA AGREEMENT NAME: Ratherford Unit
		8. WELL NAME and NUMBER: Ratherford 29W32
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection Well</u>	9. API NUMBER: 4303715339	
2. NAME OF OPERATOR: Mobil Producing Texas & New Mexico, Inc.	10. FIELD AND POOL, OR WILDCAT: Greater Aneth	
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY Houston STATE TX ZIP 77210-4358	PHONE NUMBER: (713) 431-1197	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1951' FNL & 1755' FEL (BHL - 694' FNL & 685' FWL)		COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: S 29 41 S R24 E		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: _____	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input 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.

(1) MIRU CTU. Test BOP and all surface equipment to 5000 psi.  
 (2) RIH w/ CT to ~6109'.  
 (3) Start pumping acid (~15,225 gals by volume mixed to 15% HCL +/- 10 gals per ft). Do not exceed 3000psi surface pressure.  
 Fluid Mixture Information per 1000 gal concentration as follows:  
 - 572.7 gals of water  
 - 379.1 gals of 36% HCL  
 - 2 gals of A261 Inhibitor  
 - 3 gals of F75N Surfactant  
 - 50 gals of U66 Mutual Solvent  
 - 15 lbs of L58 Iron Reducing Agent  
 (4) Once acid is pumped, displace with injection water containing soda ash to neutralize the acid remaining in the coiled tbg.  
 (5) POOH w/ CT. RDMO CTU. RWTI.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

FOR RECORD ONLY

**RECEIVED**  
JAN 11 2002

DIVISION OF  
OIL, GAS AND MINING

NAME (PLEASE PRINT) <u>Kim S. Lynch</u>	TITLE <u>Sr. Staff Office Assistant</u>
SIGNATURE <u>Kim Lynch</u>	DATE <u>January 10, 2002</u>

(This space for State use only)

June 27, 2001

**ExxonMobil**  
*Production*

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

Change of Name – Mobil Oil Corporation to  
ExxonMobil Oil Corporation

Dear Mr. Thompson

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

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

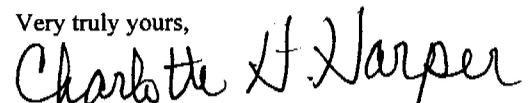
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

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

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

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

Very truly yours,



Charlotte H. Harper  
Permitting Supervisor

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

RECEIVED

JUN 27 2001

DIVISION OF  
OIL, GAS AND MINING



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS  
XXXXXXXXXXXXXXXXXXXX  
Navajo Area Office  
NAVAJO REGION  
P.O. Box 1060  
Gallup, New Mexico 87305-1060

2001-08-01 15:15

IN REPLY REFER TO:

RRES/543

AUG 30 2001

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Dear Ms. Harper:

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

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

Sincerely,

DEAN DENETSONE

Regional Realty Officer

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

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

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

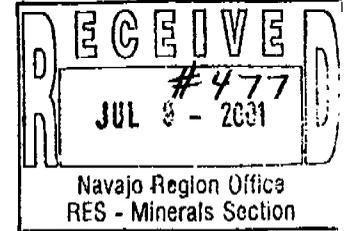
*File 7/12/2001*  
*SH*  
*543*  
*File*

June 27, 2001

**ExxonMobil**  
*Production*

Certified Mail  
Return Receipt Requested

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



Change of Name -  
Mobil Oil Corporation to  
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

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

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

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

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

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

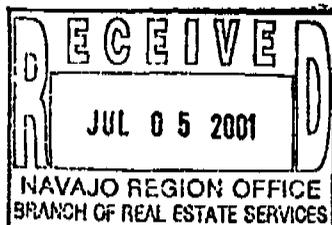
If you have any questions , please contact Alex Correa at (713) 431-1012.

Very truly yours,

*Charlotte H. Harper*

Charlotte H. Harper  
Permitting Supervisor

Attachments



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

*NOTE: Check forwarded to Ella Isaac*

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

Gentlemen:

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

**OFFICERS**

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

**DIRECTORS**

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

Sincerely,



Alex Correa

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



  
\_\_\_\_\_  
Signature  
AGENT AND ATTORNEY IN FACT  
\_\_\_\_\_  
Title

SAL

**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. Miller  
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

- |     | <b>Lease Number</b> |
|-----|---------------------|
| 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

World Center One South, Suite 1900, Houston, Texas 77027-3301  
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**

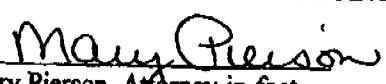
All other terms and conditions of this Bond are unchanged.

Signed, sealed and dated this 12<sup>th</sup> of June, 2001.

**ExxonMobil Oil Corporation**

By: 

**FEDERAL INSURANCE COMPANY**

By:   
Mary Pierson, Attorney-in-fact



POWER OF ATTORNEY

Federal Insurance Company  
Vigilant Insurance Company  
Pacific Indemnity Company

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

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

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

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

Kenneth C. Wendel  
Kenneth C. Wendel, Assistant Secretary

Frank E. Robertson  
Frank E. Robertson, Vice President

STATE OF NEW JERSEY } ss.  
County of Somerset

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



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

Karen Price  
Notary Public

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

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

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

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

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



Kenneth C. Wendel  
Kenneth C. Wendel, Assistant Secretary

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

CSC

5184334741

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

CSC

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

F010601000187

CERTIFICATE OF AMENDMENT  
OF  
CERTIFICATE OF INCORPORATION  
OF  
MOBIL OIL CORPORATION

CSC 45

(Under Section 805 of the Business Corporation Law)

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

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

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

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

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

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

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

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

CSC  
CSC

5184334741

06/01 '01 08:47 NO.410 04/05  
06/01 '01 07:06 NO.133 03/04

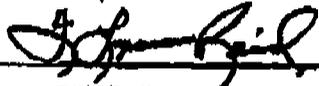
FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

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

  
\_\_\_\_\_  
F. A. Risch, President 

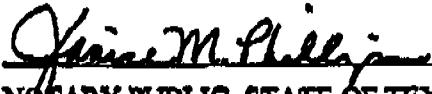
STATE OF TEXAS        )  
COUNTY OF DALLAS    )

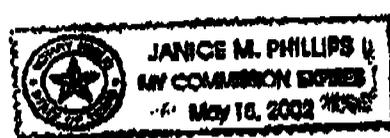
F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.

  
\_\_\_\_\_  
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*

*100 cc*

**STATE OF NEW YORK  
DEPARTMENT OF STATE**

Filed by: EXXONMOBIL CORPORATION  
(Name)

FILED JUN 01 2001

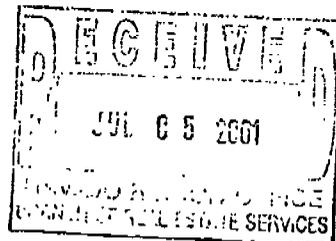
5959 Las Colinas Blvd.  
(Mailing address)

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

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

*ny Albany*

*Cust Ref # 1655781MPJ*



**010601000195**

State of New York }  
Department of State } ss:

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

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



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

*Special Deputy Secretary of State*

**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>	
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: <b>06-01-2001</b>	
<b>FROM: (Old Operator):</b>	<b>TO: (New Operator):</b>
MOBIL EXPLORATION & PRODUCTION	EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"	Address: U S WEST P O BOX 4358
CORTEZ, CO 81321	HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212	Phone: 1-(713)-431-1010
Account No. N7370	Account No. N1855

**CA No. Unit: RATHERFORD**

<b>WELL(S)</b>						
NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
RATHERFORD U 19W21	19-41S-24E	43-037-15741	6280	INDIAN	WI	A
DSRT A-26 (RATHERFORD 19W23)	19-41S-24E	43-037-15742	99990	INDIAN	WI	A
RATHERFORD U 19-32	19-41S-24E	43-037-15743	6280	INDIAN	WI	A
RATHERFORD U 19-34	19-41S-24E	43-037-15744	6280	INDIAN	WI	A
DESERT A-24 (RATHERFORD 19W41)	19-41S-24E	43-037-15745	99990	INDIAN	WI	A
DESERT A-23 (RATHERFORD 19W43)	19-41S-24E	43-037-16420	99990	INDIAN	WI	A
RATHERFORD U 20-12	20-41S-24E	43-037-15746	6280	INDIAN	WI	I
RATHERFORD U 20-14	20-41S-24E	43-037-15747	6280	INDIAN	WI	A
DESERT A-18 (RATHERFORD 20W23)	20-41S-24E	43-037-15748	99990	INDIAN	WI	A
RATHERFORD U 20-32	20-41S-24E	43-037-15749	6280	INDIAN	WI	A
RATHERFORD U 20-34	20-41S-24E	43-037-15750	6280	INDIAN	WI	A
RATHERFORD 20W41 (DESERT A-27)	20-41S-24E	43-037-15751	99990	INDIAN	WI	A
RATHERFORD 20-67	20-41S-24E	43-037-31590	6280	INDIAN	WI	A
RATHERFORD U 21-14	21-41S-24E	43-037-15753	6280	INDIAN	WI	I
RATHERFORD UNIT 21-67	21-41S-24E	43-037-31753	6280	INDIAN	WI	A
RATHERFORD UNIT 28-12	28-41S-24E	43-037-15336	6280	INDIAN	WI	A
NAVAJO A-19 (RATHERFORD 28W21)	28-41S-24E	43-037-16431	99990	INDIAN	WI	A
RATHERFORD U 29-12	29-41S-24E	43-037-15337	6280	INDIAN	WI	A
<del>RATHERFORD U 29-32</del>	29-41S-24E	43-037-15339	6280	INDIAN	WI	A
RATHERFORD 29W21	29-41S-24E	43-037-16432	99990	INDIAN	WI	A
NAVAJO B-5 (RATHERFORD 30W41)	30-41S-24E	43-037-15343	99990	INDIAN	WI	A
NAVAJO B-16 (RATHERFORD 30W21)	30-41S-24E	43-037-16435	99990	INDIAN	WI	I

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143

5. If NO, the operator was contacted contacted on: N/A

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

**NOTE: EPA ISSUES UIC PERMIT**

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 04/11/2002

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 04/11/2002

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

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

**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:**

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

<b>ROUTING</b>
1. DJJ
2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

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

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

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

**DATA ENTRY:**

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

**BOND VERIFICATION:**

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

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

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

EFFECTIVE DATE OF TRANSFER: 6/1/2006

CURRENT OPERATOR

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

NEW OPERATOR

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

(This space for State use only)

Transfer approved by:   
Title: Field Operations Manager

Approval Date: 6/12/06

Comments:

RECEIVED  
APR 24 2006

DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: 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
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>		7. UNIT or CA AGREEMENT NAME: Ratherford Unit
2. NAME OF OPERATOR: Resolute Natural Resources Company <u>N2700</u>		8. WELL NAME and NUMBER: See attached list
3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202		9. API NUMBER: Attached
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>		10. FIELD AND POOL, OR WILDCAT: Greater Aneth

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

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

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

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

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

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

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

(This space for State use only)

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

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

(5/2000)

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Ship Rock</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		7. UNIT or CA AGREEMENT NAME: <b>UTU68931A</b>
2. NAME OF OPERATOR: <b>ExxonMobil Oil Corporation</b> <u>N1855</u>		8. WELL NAME and NUMBER: <b>Ratherford</b>
3. ADDRESS OF OPERATOR: <b>P.O. Box 4358</b> CITY <b>Houston</b> STATE <b>TX</b> ZIP <b>77210-4358</b>		9. API NUMBER: <b>attached</b>
PHONE NUMBER: <b>(281) 654-1936</b>		10. FIELD AND POOL, OR WILDCAT: <b>Aneth</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE:		COUNTY: <b>San Juan</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: <b>UTAH</b>

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

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

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

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

Attached please find a listing of injection wells included in the transfer.

NAME (PLEASE PRINT) Laurie Kilbride TITLE Permitting Supervisor

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

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

RECEIVED  
APR 21 2006

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

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

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

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-407
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO  <b>7. UNIT or CA AGREEMENT NAME:</b> RATHERFORD
<b>1. TYPE OF WELL</b> Water Injection Well	<b>8. WELL NAME and NUMBER:</b> RATHERFORD U 29-32
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES	<b>9. API NUMBER:</b> 43037153390000
<b>3. ADDRESS OF OPERATOR:</b> 1675 Boradway Ste 1950 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 534-4600 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1951 FNL 1755 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 29 Township: 41.0S Range: 24.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH  <b>COUNTY:</b> SAN JUAN  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/12/2013  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

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

Resolute proposes to perform a UIC repair on the Rutherford Unit 29-32. The wellbore will be cleaned out to stimulate production in the injection unit. Attachment is the procedure and current wellbore schematic.

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

**Date:** June 10, 2013  
**By:** Dark Quist

<b>NAME (PLEASE PRINT)</b> Sherry Glass	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr Regulatory Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/23/2013	

# **RESOLUTE**

## **NATURAL RESOURCES**

### **Procedure**

#### **Ratherford Unit #29W-32**

**1951' FNL, 1755' FEL**

**Sec 29, T41S, R24E**

**43-037-15339**

1. MIRU WSU, LOTO.
2. Establish KWF. Kill well as necessary.
3. ND WH, NU BOPE.
4. Pressure Test BOP against landing donut.
5. J-off packer, circulate KWF.
6. POOH & LD 2-3/8" Cement lined tbg (run in March 1997).
7. PU workstring tubing and TIH to recover the 4" Guiberson ER-VI packer at 5640' KB.
8. PU bit & scraper spaced 2 jts apart & RIH to tag below liner at 5748-78' KB in the window or on the fish; (depth unknown), keeping the scraper up in the 4" liner.
9. Circulate clean underbalanced. Backflow 3 lateral volumes (~75 bbls), or until clean returns.
10. POOH and LD bit and scraper.
11. RIH 4" treating packer & 2 jts tailpipe. Set packer at ~5690' w/tailpipe to ~5753' KOP.  
NOTE: Include landing nipple & unloader valve above pkr to allow setting plug & changing fluid above the packer to brine after acidizing.
12. Pressure test backside and 4" liner to 1000 psi/30 min. Bleed off backside.
13. RU acidizing equipt to pump 1000 gal 20% HCl.
14. Open bypass & spot acid to the end of tailpipe. Close bypass, put 500 psi on the backside.
15. Pump acid away at max rate possible, keeping under 3500 TP. Monitor backside pressure.
16. Displace acid with 45 bbls fresh wtr past the end of workstring. Soak 2 hrs. Calculate KWF from final pressure after soak.
17. RU WL & set plug in profile nipple above trt pkr, shift unloader valve open; circ backside to brine per KWF calculation after acid.
18. Retrieve plug from profile nipple, RD WL. POOH w/treating packer & workstring.
19. PU, RIH with 4" Arrowset 1-X packer with 1.50 F plug in place below T-2 on/off tool. Include 1.43 R profile & WL re-entry guide below the packer.
20. Set packer at ~5630' KB /previous set @ 5640' KB.
21. J-off packer, circulate packer fluid up backside.
22. Perform mock MIT to 1000 psi/30 min.
23. POOH LD workstring.
24. PU & RIH new 2-3/8" Duoline tubing and on/off tool. NOTE: Running of injection tbg to be under the direction of those individuals that have been trained; every coupling to be inspected & properly torqued.
25. Jay onto packer, space out & land tubing. Perform mock MIT after landing tubing.
26. ND BOP, NU WH.
27. MIRU slickline unit. Test lubricator to 2500#
28. RIH gauge ring, shear 1.50 F plug, and retrieve plug. RDMO slickline unit.
29. RD WSU.
30. Schedule MIT w/NNEPA.
31. Notify the Area Production Supervisor that well is ready to return to injection.
32. RDMOL.

**RATHERFORD UNIT # 29W-32**

**INJECTOR**

GREATER ANETH FIELD

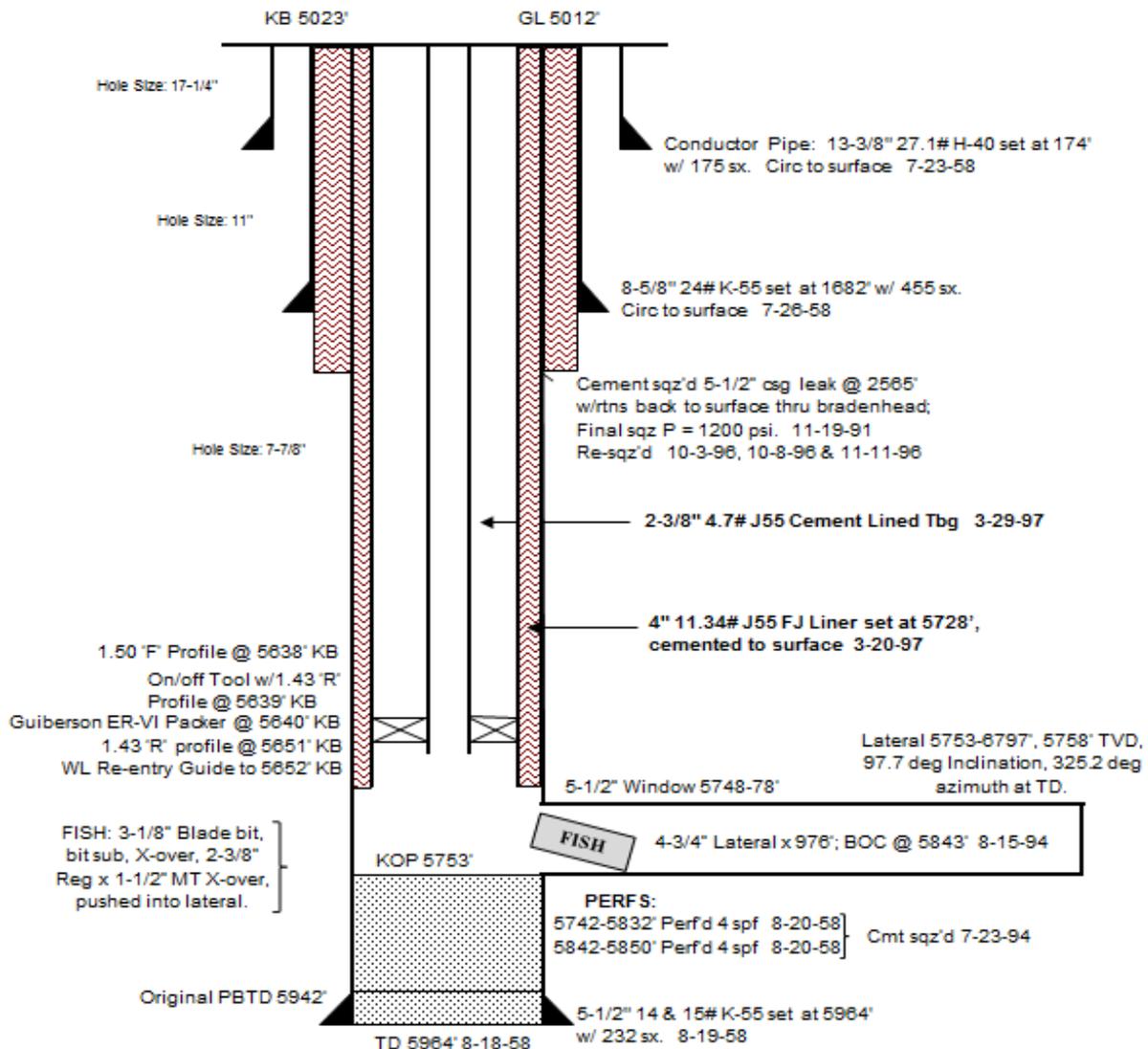
1951' FNL & 1755' FEL

SEC 29-T41S-R24E

SAN JUAN COUNTY, UTAH

API 43-037-15339

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

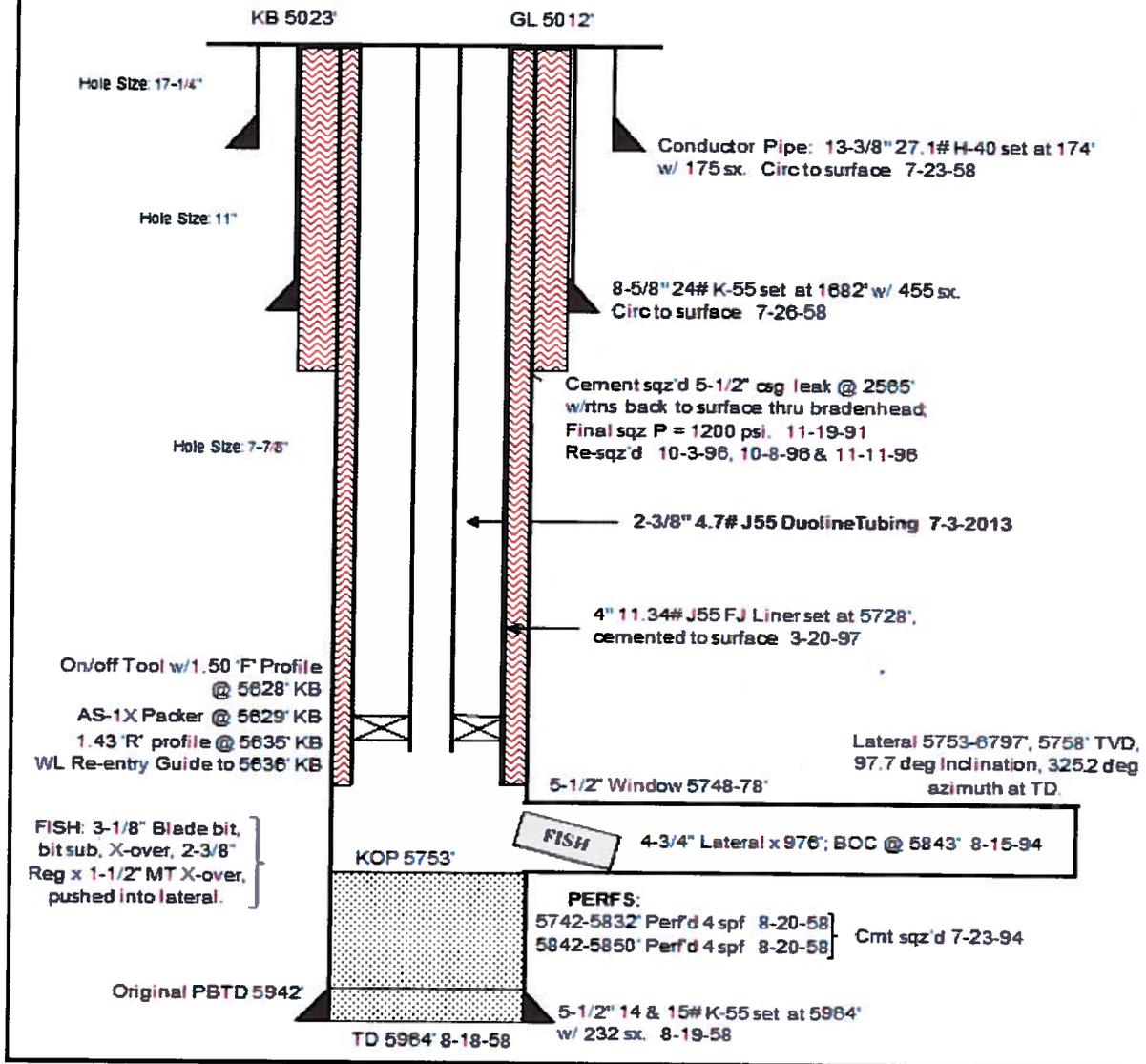


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-407	
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO	
<b>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> RATHERFORD	
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES		<b>8. WELL NAME and NUMBER:</b> RATHERFORD U 29-32	
<b>3. ADDRESS OF OPERATOR:</b> 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535		<b>9. API NUMBER:</b> 43037153390000	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1951 FNL 1755 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 29 Township: 41.0S Range: 24.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH	
		<b>COUNTY:</b> SAN JUAN	
		<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 10/10/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input checked="" type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
Resolute Natural Resources respectfully submits this sundry as notice of acidizing the above well. Attached are the procedure and schematic <div style="float: right; text-align: center;"> <p><b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 15, 2014</b></p> </div>			
<b>NAME (PLEASE PRINT)</b> Erin Joseph	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr. Regulatory Analyst	
<b>SIGNATURE</b> N/A		<b>DATE</b> 10/7/2014	

**RATHERFORD UNIT # 29W-32**  
**GREATER ANETH FIELD**  
 1951' FNL & 1755' FEL  
 SEC 29-T41S-R24E  
 SAN JUAN COUNTY, UTAH  
 API 43-037-15339

**INJECTOR**

Capacities:	bb/ft	gal/ft	cuft/ft
2-7/8" 6.5#	00579	2431	0325
7" 23#	0393	16535	2210
7" 26#	0382	16070	2148
2-7/8"x7"23#	0313	13162	1760
2-7/8"x7"26#	0302	12696	1697



# RESOLUTE

## NATURAL RESOURCES

### RU Injection Wells Bullhead Acid Treatments

Well Summary Table									
RU Well No.	Well Type	Current BWIPD @ TP	Current Pattern BOPD	Tbg - Csg Sizes	Tubing Run Date	Last Acid	Bbls Wtr Displ After Acid	Comment	
1	12W-33	Vertical	909 @ 2910	160	2-3/8 - 4	Dec 2013	Nov 2013	30	
2	29W-32	Sgl Lateral	717 @ 3000	137	2-3/8 - 4	Jul 2013	Jun 2013	30	
3	12W-22	Tri Lateral	1045 @ 2950	129	2-3/8 - 5-1/2	Feb 1997	Feb 1997	40	
4	14W-42	Sgl Lateral	1598 @ 2950	123	2-3/8 - 4	Nov 2011	Mar 2013	30	
5	17W-14	Vertical	2402 @ 2710	104	2-7/8 - 5-1/2	Jun 2012	Oct 2006	45	
6	13W-11	Quad Lateral	892 @ 2850	101	2-7/8 - 7	Jun 2007	< 2000	45	
7	21W-14	Dual Lateral	1006 @ 2950	44	2-7/8 - 5-1/2	Jun 2003	Oct 2006	45	Tubing cmtd in csg Jul 2003.
8	19W-12	Tri Lateral	2295 @ 2610	44	2-3/8 - 5-1/2	Sept 1997	Sept 1997	45	
9	9W-23	Vertical	1461 @ 2800	32	2-3/8 - 5-1/2	Jul 1998	Aug 2007	35	
10	16W-23	Dual Lateral	1003 @ 3000	61	2-7/8 - 5-1/2	Dec 2007	Oct 2006	45	

### Procedure

**Horsley Witten: Not Applicable**

1. Check crown valve & wing valve for integrity to ensure pump truck can rig up to well. (All wells checked by 10-2-14; New wing valves being installed at 12W-22, 14W-42 & 19W-12)
2. MIRU frac tank, manifold & hard line for flowback. RU ABC shower trailer.
3. Backflow the well for ~400 bbls or until significant gas appears, then shut in.
4. RU pumping equipment to wellhead & PT lines. Record TP, CP, Bradenhead P (BHP).
5. Pump 400 gal xylene, 2500 gal inhibited 15% HCl, produced water displacement (see table above). **Pump at maximum rate possible, staying under 3000 psi TP.** Monitor CP and BHP while pumping.
6. Rig down pumping equipment.
7. Notify Pierce Benally (435) 619-7227 that the well is ready to return to injection.
8. Open the well to injection; Record the initial injection rate and tubing pressure.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-407
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO
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.		<b>7. UNIT or CA AGREEMENT NAME:</b> RATHERFORD
		<b>8. WELL NAME and NUMBER:</b> RATHERFORD U 29-32
<b>1. TYPE OF WELL</b> Water Injection Well	<b>9. API NUMBER:</b> 43037153390000	
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES	<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH	
<b>3. ADDRESS OF OPERATOR:</b> 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	<b>PHONE NUMBER:</b> 303 534-4600 Ext	<b>COUNTY:</b> SAN JUAN
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1951 FNL 1755 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 29 Township: 41.0S Range: 24.0E Meridian: S	<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/4/2014  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input checked="" type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Resolute Natural Resources submits this sundry s notice that the acidizing was completed on the above well on 11/4/2014 please see attached activity summary for details		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 18, 2014</b>		
<b>NAME (PLEASE PRINT)</b> Erin Joseph	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr. Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/8/2014	



## Daily Activity Summary

Well Name: RU 29-32

API Number 4303715339		Section 29	Township 41S	Range 24E	Field Name Ratherford	County San Juan	State/Province Utah
Ground Elevation (ft) 5,012.00	Original KB Elevation (ft) 5,023.00	KB-Ground Distance (ft) 11.00		Regulatory Spud Date 7/22/1958 00:00	Rig Release Date/Time 8/28/1994 00:00	First Production Date	
Job Category Workover			Primary Job Type W/O Injection Well			AFE Number	
Start Date 11/4/2014			End Date 11/4/2014			Total AFE Amount (Cost)	
Objective Job Scope: Backflow the well, RU to wellhead and pump 400 gals xylene or specified solvent, ~2500 gal 15% inhibited HCl acid, and displacement water. Return to injection.							
Contractor			Rig Number		Rig on Report Date		Rig off report date
Report Number	Start Date	End Date	Summary				
1	11/4/2014 08:00	11/4/2014 16:00	<p>NU flowline and choke to tbg. FTP 2,800 psig, SICP 50 psig, BH press 0 psig. Flow back tbg to flowback tank. Flowed back 350 BPW. SWI @ 2,300 psig, SITP 2,800 psig, SICP 50 psig, BH 0 psig. PT llnes to 4,000 psig w/10 gal FW. Ppd 9.5 bbls xylene (400 gallons) and 23.5 bbls of 20% HCL acid @ 15.5 gal p/m @ 2,900 - 3,000 psig. SD for 30 min, xylene below tbg. Continue to pump 20% HCL @ 15.5 gallons p/m @ 2,950 psig. Increased rate to 20.7 g/m @ 1,806 gal pumped. With 2138 gallons pumped, pumped 41.5 gal p/m @ 3,000 psig. Kept that rate until total of 4150 gallons pumped. Pumped 400 gal of xylene, 2500 gal of 20% HCL and displaced w/30 BFW. ISIP 3,000 psig, 5 min - 15 min press stayed @ 3,000 psig. RDMO H&amp;M acid truck. Did not have any csg or BH increase during pumping operations.</p>				

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-407
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO  <b>7. UNIT or CA AGREEMENT NAME:</b> RATHERFORD
<b>1. TYPE OF WELL</b> Water Injection Well	<b>8. WELL NAME and NUMBER:</b> RATHERFORD U 29-32
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES	<b>9. API NUMBER:</b> 43037153390000
<b>3. ADDRESS OF OPERATOR:</b> 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	<b>PHONE NUMBER:</b> 303 534-4600 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1951 FNL 1755 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 29 Township: 41.0S Range: 24.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH  <b>COUNTY:</b> SAN JUAN  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>12/28/2015</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input checked="" type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

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

Resolute proposes to attempt to acidize the subject well to enhance injectivity and reduce the injection pressure in the area. The proposed procedure and schematics are attached.

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

Date: ~~November 23, 2015~~  
 By: *Derek Duff*

<b>NAME (PLEASE PRINT)</b> Sherry Glass	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/19/2015	

# **RESOLUTE**

## **NATURAL RESOURCES**

**November 16, 2015**

**1420603407**

**UTU68931A**

**4303715339**

### **RU Injection Well 29W-32 Bullhead Acid Stimulation**

#### **Recommendation**

The production engineers and operations staff at Ratherford Unit recommend pumping xylene plus hydrochloric acid down RU 29W-32 single lateral injector to enhance injectivity and reduce the injection pressure in RU area. This treatment is expected to improve injection from 873 to 1400 bwipd and production by 34 BOPD and 371 BWPD for the pattern.

#### **Job Scope**

Job Scope: Backflow the well, RU to wellhead & pump 600 gal xylene plus 5000 gal 20% inhibited HCl acid, and displacement water; Soak, Return to injection.

Acid planned? Y; Change of tubing size? N; Paraffin expected? N

#### **Work History**

10/06/1958: Initial Completion Test - Flowing 1104 bfpd, 0.9% bs&w, 1/2" choke.

1/12/1967: Acidized w/2000 gal acid in 2 stages, mothball diversion stage between.

11/27/1991: Cement sqz'd 5-1/2" csg leak @ 2565' w/rtns to surface thru bradenhead.

7/22-8/26/94: Drilled Lateral - Cement squeezed DC perms 5742-5850', milled 5-1/2" window 5748-78' drilled 4-3/4" x 976' horizontal lateral to 6797' TMD/5758' /TVD, 325 azimuth; 97.7 inclination, Acidized the lateral with 10,000 gal 15% HCl. Ran injection packer & lined injection tubing.

6/29-7/5/1995: Wellhead upgrade - Pulled tubing, Cut off 5-1/2 csg head, added 8x11" x 3000# double studded adaptor, 11" x 3000# x 7-1/16 x 3000# csg head. Re-ran packer & lined injection tubing.

7/13/1995: Began injection of water.

9/19-11/2/1996: Re-squeezed leak at 2565' in 5-1/2" csg three times w/25 sx to 1500 psi, 35 sx to 1540 psi, and 25 sx of cement to 1510 psi.

3/20/1997: Liner Installation - Pulled tubing & packer; Ran 4" 11.34# J-55 FJ liner to 5728' & cemented w/8 bbls cmt to surface; Drilled out cmt & composite plug at 5735', CO to window 5748-78'; ran 4" Guiberson ER-VI packer & set at 5640' KB, Ran 2-3/8 Cement lined tubing & landed same. Resumed injection.

#### **NOTE: Left 3-1/8 bit & bit sub fish in window.**

6/24/2013: UIC Workover - Pulled tubing & packer, Cleaned out to 5778', Acidized w/1000 gal 20% HCl, set AS-1X packer at 5629' KB, Ran 2-3/8 Duoline Tbg, NU tree, Failed MIT; Set 1.50 plug, Replaced tbg hanger, NU tree, Retrieved 1.50 plug, Witnessed MIT PASSED on 7/9/2013.

10/10/2013: UIC Workover - WL set 1.50 plug @ 5623', Pulled 2-3/8" Duoline tbg, pulled 4" AS-1X pkr, Set new AS-1X pkr @ 5619', circ out 12.2 ppg mud w/pkr fluid; LD 2-3/8" Duoline tbg, RIH & land 172 jts 2-3/8" TK Fiberline w/KC cplgs. PT csg & pkr 1020/30 min - good test. Pull 1.50 plug, backflow 275 bbls. RDMO. 11/04/2014: Bullhead Acid - FTP 2800, CP 50, Backflowed 350 bbls from tbg, RU H&M & PT lines to 4000 psi; pumped 400 gal (9.5 bbls) xylene & 2500 gal 20% HCl, displaced w/30 bbls FW. Paused 30 min w/xylene into the lateral (33 bbls behind xylene), then resumed pumping; rate improved from 15.5 gpm @ 2900 psi pre-soak to 41.5 gpm @ 3000 psi w/51 bbls pumped. Held this rate & pressure to end of flush. ISIP 3000, still 3000 after 15 min. No csg or bradenhead pressure increase during pumping.

11-12-15: Current injection rate = 873 bwipd @ 2950 TP.

#### **Procedure**

**Horsley-Witten:** Not Applicable.

1. Check crown valve & wing valve for integrity before rigging up.

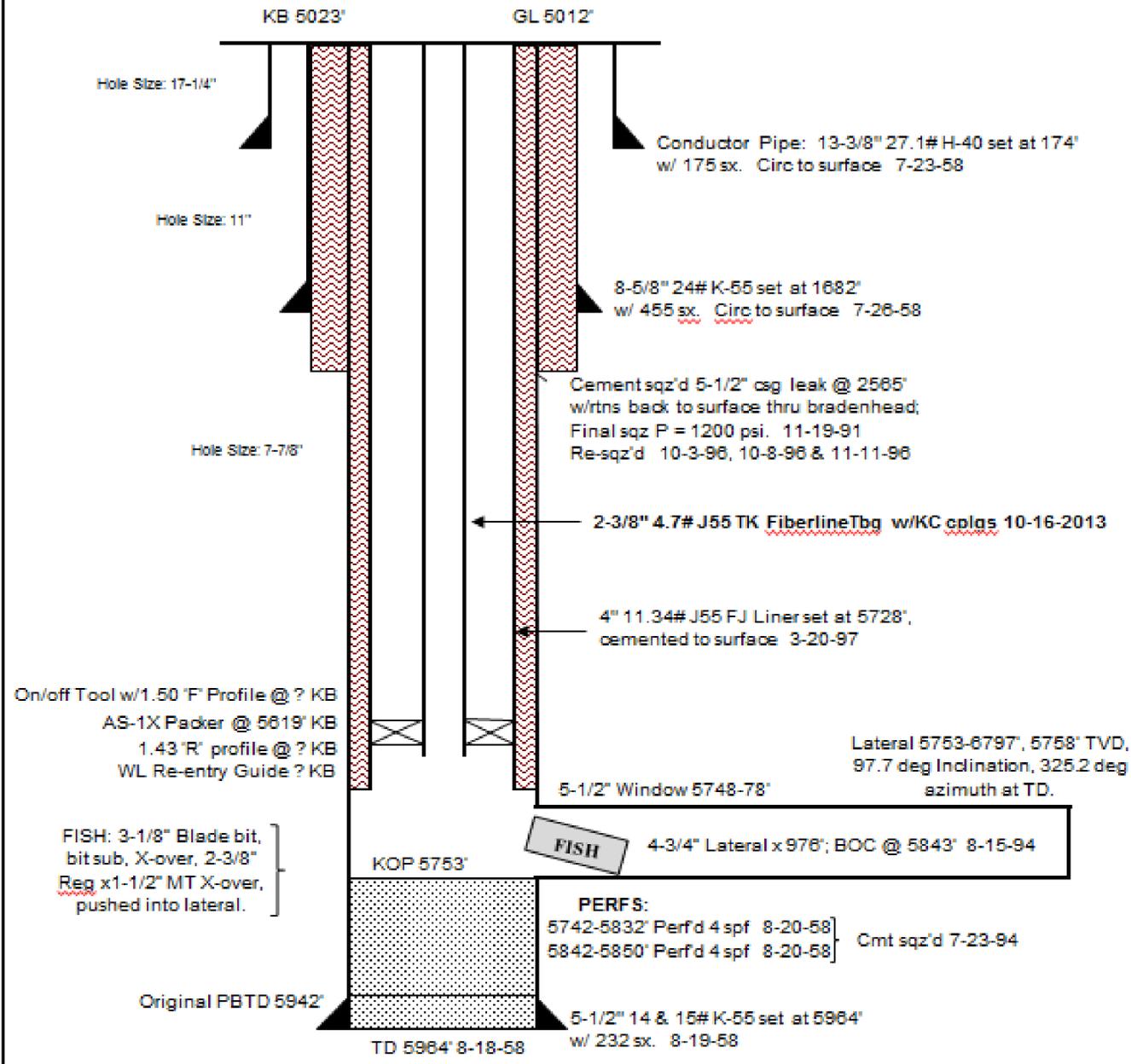
**NOTE: Tbg Detail not updated in Well View after 10-16-2013 completion.**

2. MIRU frac tank, manifold & hard line for flowback. RU ABC shower trailer.
3. Backflow the well for ~400 bbls, or until significant gas appears, or well dies, then shut in.
4. RU pumping equipment to wellhead & PT lines. Record TP, CP, Bradenhead P (BHP).
5. Pump 600 gal xylene, 5000 gal inhibited 20% HCl, followed by 47 bbls produced water displacement, stopping for 30 min soak after xylene "turns the corner" & reaches Desert Creek in the lateral (32 bbls behind xylene). **Pump displacement volume at max rate possible, staying under 3000 psi TP.** Monitor CP & BHP while pumping.
6. Rig down pumping equipment. Allow 2 hrs minimum soak time after acid displacement before returning to injection.
7. Notify Pierce Benally (435) 619-7227 that the well is ready to return to injection.
8. Open the well to injection; Record the initial injection rate and tubing pressure.

**RATHERFORD UNIT # 29W-32**  
 GREATER ANETH FIELD  
 1951' FNL & 1755' FEL  
 SEC 29-T41S-R24E  
 SAN JUAN COUNTY, UTAH  
 API 43-037-15339

**INJECTOR**

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



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

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

5. Lease Serial No.  
1420603407

6. If Indian, Allottee or Tribe Name

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

7. If Unit or CA/Agreement, Name and/or No.  
UTU68931A

1. Type of Well

Oil Well  Gas Well  Other: INJECTION

8. Well Name and No.  
RATHERFORD 29W32

2. Name of Operator  
RESOLUTE ANETH

Contact: SHERRY GLASS  
E-Mail: sglass@resoluteenergy.com

9. API Well No.  
43-037-15339

3a. Address  
1700 LINCOLN STREET SUITE 2800  
DENVER, CO 80203

3b. Phone No. (include area code)  
Ph: 303-573-4886 Ext: 1580

10. Field and Pool, or Exploratory  
ANETH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 29 T41S R24E Mer NAV SWNE 694FNL 685FWL

11. County or Parish, and State  
SAN JUAN COUNTY, UT

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

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

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

Resolute proposes to attempt acid stimulation to enhance injectivity and reduce injection pressure on the subject well and throughout the area. The proposed procedure and wellbore schematics are attached.

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

**Electronic Submission #324142 verified by the BLM Well Information System For RESOLUTE ANETH, sent to the Farmington**

Name (Printed/Typed) JIM STYLER

Title PRODUCTION ENGINEER

Signature (Electronic Submission)

Date 11/19/2015

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

Approved By \_\_\_\_\_

Title

Date

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

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

RECEIVED: Nov. 19, 2015