

*This Well has been converted to a Water Injection Well; started injecting as of 5-15-64*

FILE NOTATIONS

Entered in NID File   
Entered On S R Sheet   
Location Map Pinned   
Card Indexed   
IWR for State or Fee Land

Checked by Chief   
Copy NID to Field Office   
Approval Letter   
Disapproval Letter

COMPLETION DATA:

Date Well Completed 1-10-59  
OW  WW  TA   
GW  OS  PA

Location Inspected   
Bond released   
State of Fee Land

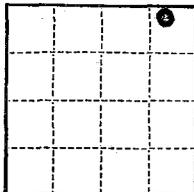
LOGS FILED

Driller's Log 5-2-59  
Electric Logs (No. ) 3

E  I  E-I  GR  GR-N  Micro   
Lat  Mi-L  Sonic  Others

(SUBMIT IN TRIPLICATE)

Indian Agency **Navajo**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Contract No. **14-20-603-4035**

Allottee \_\_\_\_\_

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

Lease No. **186579**

**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)

Navajo Tribe "X" Lease **Fort Worth, Texas, November 28, 19 58.**

Well No. **1** is located **660** ft. from **N** line and **660** ft. from **E** line of sec. **9**

**NE/4NE/4, Sec. 9, 41-South 24-East 81M**  
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**Undesignated San Juan Utah**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4524** 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)

OBJECTIVE FORMATION	SIZE CASING	CASING PROGRAM (Approx)	
		Set at	Cement
Top of Aneth 5325'	8-5/8" (1500')	1500'	1000 sx.
	5-1/2" (5525')	5525'	500 sx.

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

Company **The Texas Company**  
 Address **P.O. Box 1720 Fort Worth, Texas**

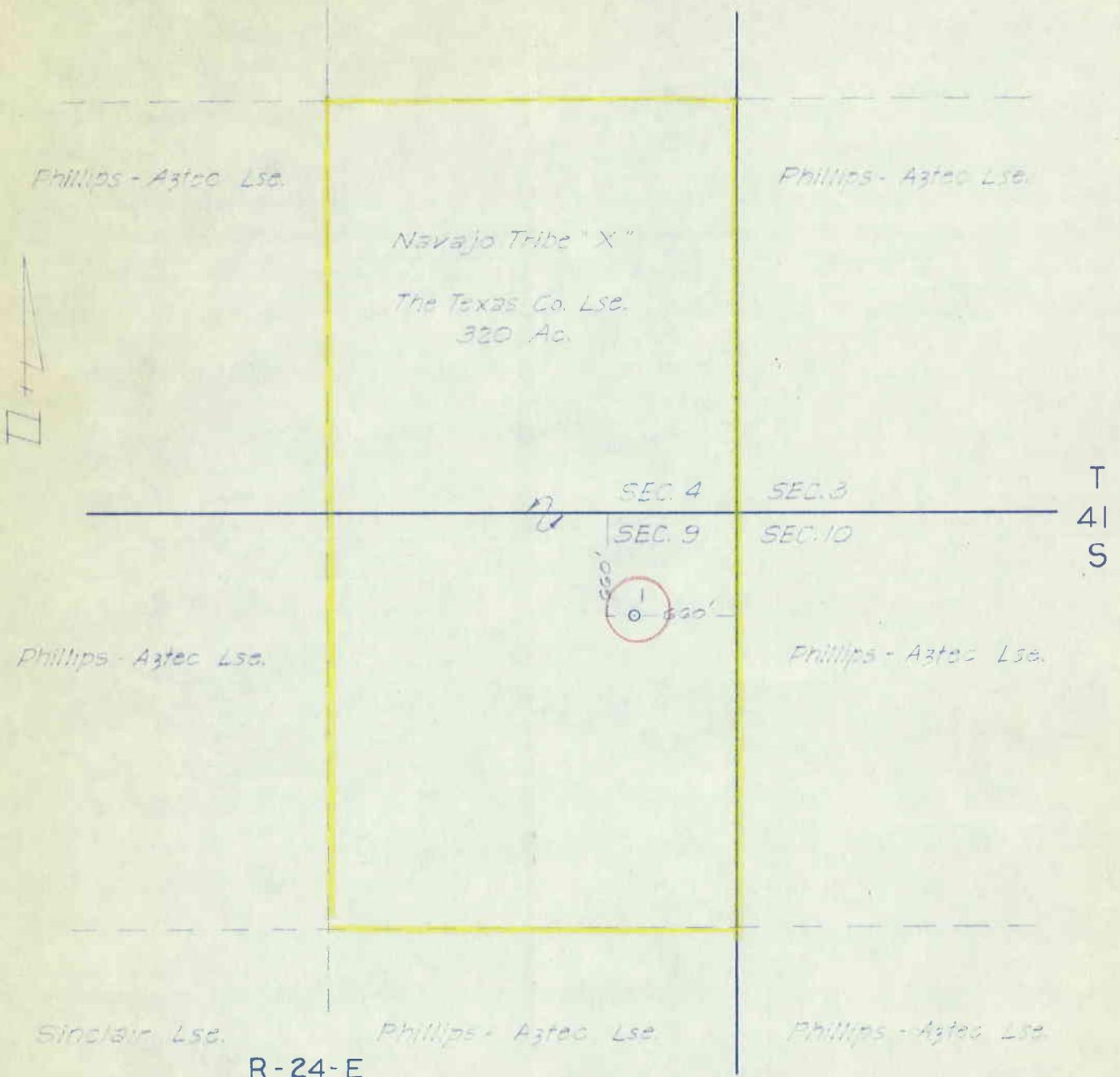
**THE TEXAS COMPANY**

By **J. J. Velten**  
 Title **Division Civil Engr.**

amm

Navajo Tribal Lands

Navajo Tribal Lands



SAN JUAN COUNTY, UTAH

Scale 1" = 1000'

This is to certify that the courses, distances and objects reflected on the plat to which this certificate is affixed were observed and compiled under my supervision and, according to my best knowledge and belief, are true and correct.

*J. J. Felton*

Division Civil Engineer - The Texas Company  
Registered Professional Engineer-State of Texas

Code of Service  
The U. S. and Foreign  
Codes of Service are  
available in full at  
any office of the  
Western Union.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, President

STANDARD  
Time Day Letter  
Night Letter  
Special Telegrams

The following shows in the date time on domestic telegrams is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination.

12106

1959 OCT 1 AM 7 32

88002 VD MDAQ7 LONG RX PD FAX MIDLAND TEX 1 80SAMC

GLENN B FEIGHT, EXECUTIVE SECRETARY

UTAH OIL AND GAS CONSERVATION COMMISSION

310 NEWHOUSE BLDG SALT LAKE CITY UTAH

THIS IS TO ADVISE THAT EFFECTIVE IMMEDIATELY TEXACO INC. APPROVES  
THE RELEASE OF THE INFORMATION NOW HELD IN CONFIDENCE ON OUR  
NAVAJO TRIBE OF INDIANS W AND X LEASES IN SAN JUAN COUNTY UTAH.  
THIS RELEASE OF INFORMATION APPLIES TO THE W AND X LEASES ONLY  
AND OTHER INFORMATION PRESENTLY HELD IN CONFIDENCE  
FOR TEXACO SHOULD CONTINUE TO BE SO HELD

TEXACO INC J H MARKLEY DIVISION MANAGER

W X U X.

*Revised*

OCT 1 1959

*W*

December 1, 1958

The Texas Company  
P. O. Box 1720  
Fort Worth 1, Texas

Attention: J. J. Velten, Division Civil Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo Tribe X - 1, which is to be located 660 feet from the north line and 660 feet from the east line of Section 9, Township 41 South, Range 24 East, S13M, 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. FREIGHT  
SECRETARY

CBF:ce

cc: Phil McGrath  
USGS, Farmington,  
New Mexico

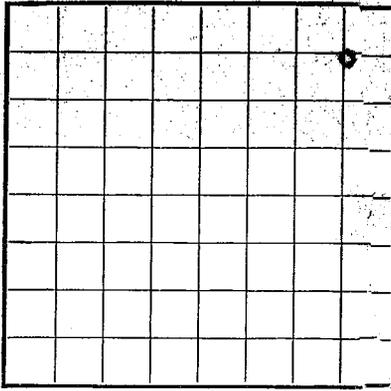


**CONFIDENTIAL**

Budget Bureau No. 42-R355.4  
Approval expires 12-31-60.

Form 9-380

U. S. LAND OFFICE Navajo  
SERIAL NUMBER 14-20-603-4035  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**LOG OF OIL OR GAS WELL**

Company TEXACO Inc. Address Box 817, Farmington, N. M.  
Lessor or Tract Navajo Tribe "X" Field Undesignated State Utah  
Well No. 1 Sec. 9 T 41-SR24-E Meridian SLM County San Juan  
Location 660 ft. N of N Line and 660 ft. E of E Line of Section 9 Elevation 4524'  
(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.

Signed [Signature]

Date June 2, 1959 Title Dist. Sup't.

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

Commenced drilling December 15, 1958 Finished drilling January 4, 1959

**OIL OR GAS SANDS OR ZONES**

(Denote gas by G)

No. 1, from 5408' to 5465' 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 None 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	48	8R	Smis	90	None	None			
8-5/8	24	8R	Smis	1510	Baker	None			
4-1/2	9.5	8R	Smis	5545	Baker	None			

**MUDDING AND CEMENTING RECORD**

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	1520	1350	Halliburton		
4-1/2	5554	200 sacks of reg. & 400 gals. Latex	Halliburton		

**PLUGS AND ADAPTERS**

Heaving plug—Material None Length -- Depth set --

Adapters—Material None Size --

**SHOOTING RECORD**

FOLD MARK

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
None						

**TOOLS USED**

Rotary tools were used from 0 feet to 5555 feet, and from --- feet to --- feet  
 Cable tools were used from None feet to --- feet, and from --- feet to --- feet

**DATES**

Put to producing ---, 19--- Tested Jan. 10, 1959  
 The production for the first 24 hours was 792 barrels of fluid of which ---% was oil; ---%  
 emulsion; ---% water; and ---% sediment. Gravity, °Bé. 100  
 If gas well, cu. ft. per 24 hours --- Gallons gasoline per 1,000 cu. ft. of gas 40.2°  
 Rock pressure, lbs. per sq. in. ---

**EMPLOYEES**

Glenn Mitcham, Driller  
 O. H. Davenport, Driller  
 Freeman Smith, Driller

**FORMATION RECORD**

FROM-	TO-	TOTAL FEET	FORMATION
0	70	70	Sand
70	165	95	Shale & Anhydrite
165	705	540	Red Bed, Shells & Sand
705	2196	1491	Shale, Red Bed & Sand
2196	2800	604	Sand & Shale
2800	2961	161	Sand, Shale & Lime
2961	3498	537	Sand & Shale
3498	4068	570	Shale
4068	4898	830	Shale & Lime
4898	4988	90	Shale
4988	5555	567	Lime & Shale
Total Depth 5555'			
Plugged Back Depth 5485'			


UNITED STATES

MINING DEPARTMENT  
 BUREAU OF MINES  
 WASHINGTON, D. C.



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.

After drilling to 5555' and cementing 4-1/2" casing, cement plug was drilled from 5509' to 5530'. Perforated 4-1/2" casing from 5502' to 5513' and 5517' to 5524' with 4 jet shots per foot. Acidized perforations through 2" tubing with 2000 gallons regular 15% acid. Flashed 100% salt water. Set retainer at 5405' and squeezed perforations 5502' to 5513' and 5517' to 5524' with 100 sacks of cement. Perforated 4-1/2" casing from 5408' to 5415', 5421' to 5428', 5438' to 5444' and 5450' to 5465' with 4 jet shots per foot. Run 2" tubing to 5426' with packer set at 5426' and acidized perforations in 3 stages with 3500 gallons of regular 15% acid using 200 gallons of fix-a-frac.

OIL OR GAS WELLS OF SOME

Geological notes and data, including well logs and production records, written in a cursive or shorthand style.

Table with a grid structure, likely for recording well data or production statistics. The grid is approximately 10 columns wide and 10 rows high.

LOG OF OIL OR GAS WELL

GEOLOGICAL STRATA  
DESCRIPTION OF THE STRATA  
UNITED STATES

UNITED STATES GEOLOGICAL SURVEY  
BUREAU OF OIL AND GAS

**CONFIDENTIAL**  
(SUBMIT IN TRIPLICATE)


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency Navajo  
Allottee \_\_\_\_\_  
Lease No. 14-20-603-4035

**SUNDRY NOTICES AND REPORTS ON WELLS**

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	<b>XX</b>
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)

**Navajo Tribe "X"** June 2, 19 59

Well No. 1 is located 660 ft. from N line and 660 ft. from E line of sec. 9  
**XX** **XX**

NW 1/4 of Sec. 9 41-S 24-E SLM  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Undesignated San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4524 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 12:15 P.M., December 15, 1958.

Drilled 17-1/4" hole to 100' and cemented 90' of 13-3/8" O.D. casing at 100' with 150 sacks of cement. Cement circulated.

Drilled 11" hole to 1520' and cemented 1510' of 8-5/8" O.D. casing at 1520' with 1350 sacks of cement. Cement circulated. Tested casing with 800# pressure for 30 minutes. Tested OK.

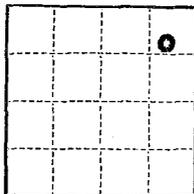
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company TEXACO Inc.  
Address Box 817  
Farmington, New Mexico

By C. H. McCall  
Title Asst. Dist. Supt.

**CONFIDENTIAL**  
(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee 14-20-603-4035

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	<b>XX</b>
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)

Navajo Tribe "X" \_\_\_\_\_ June 2, \_\_\_\_\_, 19 59

Well No. 1 is located 660 ft. from N line and 660 ft. from E line of sec. 9  
**XX** **XX**

NE 1/4 of Sec. 9 41-8 24-E SLM  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Undesignated San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4524 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)

Drilled 6-3/4" hole to 5555' and cemented 5545' of 4-1/2" O.D. casing at 5554' with 200 sacks of cement and 400 gallons Latex cement. Top of cement 4275'. Tested casing with 800# pressure for 30 minutes. Tested OK.

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

Company TEXACO Inc.

Address Box 817

Farmington, New Mexico

By C.H. McCall

Title Asst. Dist. Supt.

**CONFIDENTIAL**  
(SUBMIT IN TRIPLICATE)


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee \_\_\_\_\_

Lease No. 14-20-603-4035

**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.....	<b>XXX</b>
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)

June 2, 19 59

Navajo Tribe "X"

Well No. 1 is located 660 ft. from [N] line and 660 ft. from [E] line of sec. 9

NE 1/4 of Sec. 9  
(1/4 Sec. and Sec. No.)

41-S 24-E  
(Twp.) (Range)

SLM  
(Meridian)

Undesignated  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the derrick floor above sea level is 4524 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)

Total depth 5555'. Plugged back depth 5485'.

Perforated 4-1/2" casing from 5502' to 5513' and 5517' to 5524' with 4 jet shots per foot. Acidized perforations through 2" tubing with 2000 gallons of regular 15% acid. Swabbed 100% salt water. Set retainer at 5485' and squeezed perforations 5502' to 5513' and 5517' to 5524' with 100 sacks of cement. Perforated 4-1/2" casing from 5408' to 5415', 5421' to 5428', 5438' to 5444' and 5450' to 5465' with 4 jet shots per foot. Ran 2" tubing to 5426' with packer set at 5266' and acidized perforations in 2 stages with 3500 gallons regular 15% acid using 200 gallons of fix-a-frac.

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

Company TEXACO Inc.

Address Box 817

Farmington, New Mexico

By C. H. M. Coel

Title Asst. Dist. Supt.



Well NOG  
Red

JUN 1959

HOLD  
UNTIL  
OCT 4 1959

CONFIDENTIAL

NAVAJO TRIBE "X" WELL NO. 1

HOLD UNTIL  
OCT 4 1959

CONFIDENTIAL

NAVAJO TRIBE "X" WELL NO. 1

Red



PHILLIPS PETROLEUM COMPANY  
P. O. Drawer 1150  
Cortez, Colorado

May 18, 1964

Utah Oil & Gas Conservation Commission  
310 Newhouse Building  
Salt Lake City 11, Utah

Attention: Mr. Cleon B. Feight

Dear Sirs:

In accordance with Rule E-4 of the Utah General Rules and Regulations, we wish to advise that the following wells located on the Ratherford Unit in San Juan County, Utah, were converted to water injection wells.

<u>Old Well No.</u>	<u>New Well No.</u>	<u>Date Converted</u>	<u>Injection Rate</u>	<u>Injection Pressure</u>
15-23	15W23	5-11-64	658 BWPD	2700#
9-41	9W41	5-15-64	1420 BWPD	2300#

Very truly yours,

PHILLIPS PETROLEUM COMPANY

C. M. Boles  
Area Superintendent

bh

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.)

5. LEASE DESIGNATION AND SERIAL NO.

U-20-603-4035

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribe

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ratherford Unit

9. WELL NO.

941

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

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

Sec. 9-413-24E

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

1. OIL WELL  GAS WELL  OTHER

Water Injection Well

2. NAME OF OPERATOR

Phillips Petroleum Co.

3. ADDRESS OF OPERATOR

P. O. Drawer 1150 Cortez, Colo.

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

660' From North Line, 660' From East Line, Sec. 9  
NW1/4 Sec. 9 - T413-R24E, S.L.M.

14. PERMIT NO.

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

4524 DF

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 pertinent to this work.)\*

Acidize water injection well with 1000 gallons regular acid, 200 gallons Sol Block, and 2000 gallons regular acid to increase injection rate.

Present Injection Rate: 520 BPD at 2900%.

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

SIGNED

*C. M. Boles*  
C. M. Boles

TITLE Area Superintendent

DATE 6-11-64

(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

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

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**11-20-603-1038**

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.)

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

1.  OIL WELL  GAS WELL  OTHER  
**Water Injection Well**

7. UNIT AGREEMENT NAME  
**5W-1-4192**

2. NAME OF OPERATOR  
**Phillips Petroleum Company**

8. FARM OR LEASE NAME  
**Rutherford Unit**

3. ADDRESS OF OPERATOR  
**P. O. Drawer 1150, Cortez, Colorado**

9. WELL NO.  
**9041**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space below.)  
At surface **660' from North Line, 660' from East Line, Sec. 9  
N<sup>1</sup>/<sub>4</sub> Sec. 9**

10. ~~WATER INJECTION~~ WILDCAT

11. SEC., T., R., M. OR BLM. AND  
**Sec. 9-10-24E, SIM**

14. PERMIT NO.

15. ELEVATIONS (Show depth, RT, GR, etc.)  
**4584**

12. COUNTY OR STATE

13. **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

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other)

(Other)

(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.)\*

**Acidized water injection well with 1000 gallons regular acid, 200 gallons Sol Block, and 2000 gallons regular acid and hooked back up for injection to increase water injection rate.**

Previous Injection Rate: **520 BWPD at 2900%.**

Present Injection Rate: **640 BWPD at 2700%.**

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

**Area Superintendent**

SIGNED **C. M. Boles**

TITLE

DATE

**6-23-64**

(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

SUBMIT ON TRIAL DATE\*  
(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 type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>Water Injection Well</b>		5. LEASE DESIGNATION AND SERIAL NO. <b>11-20-603-1035</b>
2. NAME OF OPERATOR <b>Phillips Petroleum Company</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo Tribe</b>
3. ADDRESS OF OPERATOR <b>P. O. Drawer 1150, Cortez, Colorado</b>		7. UNIT AGREEMENT NAME <b>SW-I-4192</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>660' from North Line, 660' from East Line, Section 9 NW 1/4 Sec. 9</b>		8. FARM OR LEASE NAME <b>Ratherford Unit</b>
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4524 DF</b>	9. WELL NO. <b>9441</b>
		10. FIELD AND POOL, OR WILDCAT <b>Greater Aneth</b>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 9-41S-24E, SIM</b>
		12. COUNTY OR <del>ZONE</del> <b>San Juan</b>
		13. STATE <b>Utah</b>

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) <b>Convert well to Water Injection</b>	
(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.)\*

Pulled rods and tubing, ran 2" tubing with Marlex liner and Baker Tension packer. Hooked well up for water injection. Started injecting water 5-15-64. Changed Well Classification from Oil Well to Water Injection Well and well number from 9-4.1 to 9441 effective 5-15-64.

Previous Production from Greater Aneth - Paradox formation of Desert Creek Zone:  
37 BOPD, 36 MCFDP, 5 BWPD

Present Injection Rate: Injected 1420 BW in 24 hours at 2300#.

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

SIGNED C. M. Boles TITLE Area Superintendent DATE 6-23-64

(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

SUBMISSION TO PUBLIC  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

**14-20-603-4035**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**Navajo Tribal**

7. UNIT AGREEMENT NAME

**SW-I-4192**

8. FARM OR LEASE NAME

**Rutherford Unit**

9. WELL NO.

**9W1**

10. FIELD AND POOL, OR WILDCAT

**Greater Aneth**

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

**9-412-24E**

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

1. OIL WELL  GAS WELL  OTHER

**Water Injection Well**

2. NAME OF OPERATOR

**Phillips Petroleum Co.**

3. ADDRESS OF OPERATOR

**Drawer 1150, Cortez, Colorado 81321**

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

**660' from North Line; 660' from East Line  
NW/4 Section 9**

14. PERMIT NO.

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

**4524' 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

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(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.)\*

**In attempt to increase injection rate, acidize well with 15,000 gallons 28% acid in 3 stages separated by salt plugs.**

**Present Injection Rate: 224 BWPD at 2125#.**

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

SIGNED

*C. M. Koles*  
**C. M. Koles**

TITLE

**Dist. Supt.**

DATE

**9-23-66**

(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**

SUBMIT TO COMMUNICATE\*  
(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.)

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>Water Injection</b></p> <p>2. NAME OF OPERATOR <b>Phillips Petroleum Co. <i>Tefaco</i></b></p> <p>3. ADDRESS OF OPERATOR <b>Drawer 1150, Cortes, Colo. 81321</b></p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>660' from North Line; 660' from East Line NE/4 Sec. 9</b></p>	<p>5. LEASE DESIGNATION AND SERIAL NO. <b>14-20-603-4035</b></p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo Tribal</b></p> <p>7. UNIT AGREEMENT NAME <b>SM-I-4192</b></p> <p>8. FARM OR LEASE NAME <b>Rutherford Unit</b></p> <p>9. WELL NO. <b>9W41</b></p> <p>10. FIELD AND POOL, OR WILDCAT <b>Greater Apath</b></p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>9-418-24E</b></p>		
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4524' DF</b></p>	<p>12. COUNTY OR PARISH <b>San Juan</b></p>	<p>13. STATE <b>Utah</b></p>

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"/>	

(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 December 14, 1966 acidized with 15,000 gallons 28% acid and 1500 gallons salt block in three stages. Resumed injection.**

**PREVIOUS INJECTION RATE: 289 BWPD at 231%.**

**PRESENT INJECTION RATE: 261 BWPD at 247%.**

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

SIGNED *C. M. Boles* TITLE Dist. Supt. DATE 1-10-67

**C. M. Boles**

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

# DOWN HOLE SCHEMATIC

Date: 8/6/87

RATHERFORD Unit # 9W41

LOCATION NE NE Sec. 9

RKB ELEV. 4524'

T415-R24E

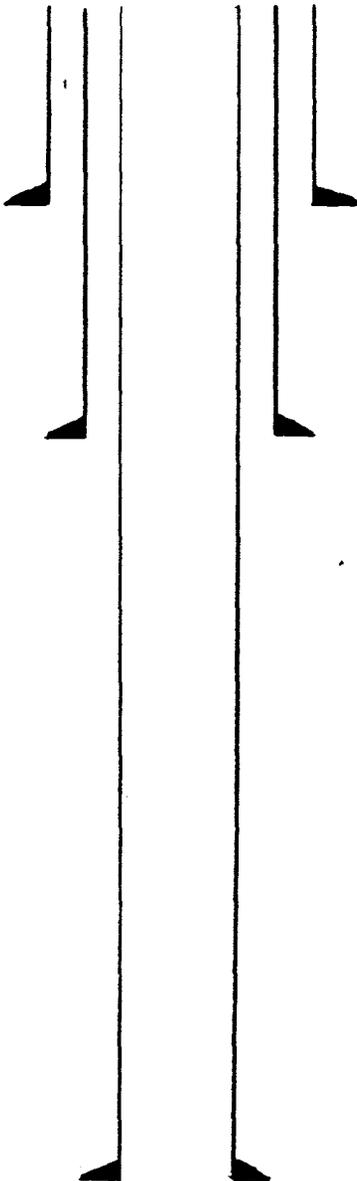
GL ELEV. 4514'

Well Drld 1/4/59

RKB Above GL' 10'

Well converted to injector 5/15/64

42 381 50 SHEETS SQUARE  
42 382 100 SHEETS SQUARE  
42 383 200 SHEETS SQUARE  
42 384 300 SHEETS SQUARE



CONDUCTOR Csg 13<sup>3</sup>/<sub>8</sub>" @ 100'

SURFACE CSG. 8<sup>5</sup>/<sub>8</sub>" @ 1520'

TOC 3844' CALC.

TUBING 2 @ 5426' MARLEX LINED

PACKER BAKER TENSION SET @ 5426

PERFS	<u>5408 - 5415</u>	_____	_____
	<u>5421 - 5428</u>	_____	_____
	<u>5438 - 5444</u>	_____	_____
	<u>5450 - 5465</u>	_____	_____

PBTD 5485'

PRODUCTION Csg. 4<sup>1</sup>/<sub>2</sub>" @ 5554'  
J-55 9.5"

All PERFS ZONE I UNLESS NOTED

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING  
ROOM 4241 STATE OFFICE BUILDING  
SALT LAKE CITY, UTAH 84114  
(801) 533-5771  
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1  
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF  
PHILLIPS PETROLEUM COMPANY

ADDRESS P.O. BOX 2920  
CASPER, WYOMING ZIP 82602

INDIVIDUAL PARTNERSHIP  CORPORATION

FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR  
INJECT FLUID INTO THE 9W41 WELL

SEC. 9 TWP. 41S RANGE 24E  
SAN JUAN COUNTY, UTAH

CAUSE NO. C-3(B)

ENHANCED RECOVERY INJ. WELL	<input checked="" type="checkbox"/>
DISPOSAL WELL	<input type="checkbox"/>
LP GAS STORAGE	<input type="checkbox"/>
EXISTING WELL (RULE I-4)	<input checked="" type="checkbox"/>

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name <u>Ratherford Unit</u>	Well No. <u>9W41</u>	Field <u>Greater Aneth</u>	County <u>San Juan</u>
Location of Enhanced Recovery Injection or Disposal Well <u>9W41</u> Sec. <u>9</u> Twp. <u>41S</u> Rge. <u>24E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>5-83</u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>Wingate 1550'</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	State What <u>Oil &amp; Gas</u>	
Location of Injection Source(s) <u>Desert Creek Paradox I &amp; II San Juan River</u>	Geologic Name(s) and Depth of Source(s) <u>Desert Creek (5567') San Juan River (Surface)</u>		
Geologic Name of Injection Zone <u>Desert Creek I</u>	Depth of Injection Interval <u>5408</u> to <u>5465</u>		
a. Top of the Perforated Interval: <u>5408</u>	b. Base of Fresh Water: <u>1550'</u>	c. Intervening Thickness (a minus b) <u>3858</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES NO See Attachment #4			
Lithology of Intervening Zones <u>See Attachment #1</u>			
Injection Rates and Pressures <u>SD 4/3/80</u> Maximum _____ B/D PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent.			
<u>Navajo Tribe, Minerals Dept., P.O. Box 146, Window Rock, AZ 86515</u>			
<u>Superior Oil, P.O. Box 4530, The Woodlands, TX 77380</u>			
<u>Texaco Inc., P.O. Box 2100, Denver, CO 80201</u>			
<u>Southland Royalty, 1000 Fort Worth Club Tower, Fort Worth, TX 76102</u>			

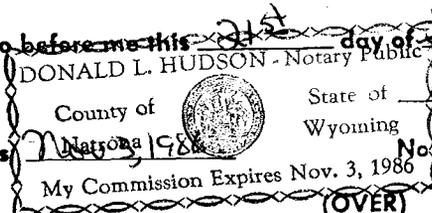
State of Wyoming ) PHILLIPS PETROLEUM COMPANY  
County of Natrona ) Applicant

Before me, the undersigned authority, on this day personally appeared A. E. Stuart  
oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Suscribed and sworn to before me this 24<sup>th</sup> day of Sept, 19 83

SEAL

My commission expires Nov 3, 1986



State of Wyoming

Donald L. Hudson  
Notary Public in and for Natrona Co., Wyoming

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehold within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

**CASING AND TUBING DATA**

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13-3/8"	100	150	Surface	Returns
Intermediate	8-5/8"	1520	1350	Surface	Returns
Production	4-1/2"	5554	200 sx & 400 Gal Latex	4275	No Record
Tubing	2"	5357.8	Baker Tension Pkr	Name - Type - Depth of Tubing Packer 5357.8	
PB Total Depth 5485	Geologic Name - Inj. Zone Desert Creek I	Depth - Top of Inj. Interval 5408	Depth - Base of Inj. Interval 5465		

(To be filed within 30 days after drilling is completed)

14-20-603-4035

COMPLETION & TEST DATA BY PRODUCING FORMATION

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

LEASE NO.

API NO. 43-037-16399

640 Acres  
N

DIVISION OF OIL, GAS, AND MINING  
Room 4241 State Office Building  
Salt Lake City, Utah 84114

COUNTY San Juan SEC. 9 TWP. 41S RGE. 24E

COMPANY OPERATING Phillips Petroleum Company

OFFICE ADDRESS P.O. Box 2920

TOWN Casper STATE WY ZIP WYoming 82602

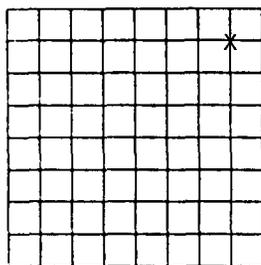
FARM NAME \_\_\_\_\_ WELL NO. 9W41

DRILLING STARTED 12-15 19 58 DRILLING FINISHED 1-4 19 59

DATE OF FIRST PRODUCTION 1-10-59 COMPLETED \_\_\_\_\_

WELL LOCATED NE 1/4 NE 1/4  
660 FT. FROM S/L OF 1/4 SEC. & 660 FT. FROM W/L OF 1/4 SEC.

ELEVATION BERRICK/FLOOR 4524 GROUND 4514



Locate Well Correctly  
and Outline Lease

RKB

TYPE COMPLETION

Single Zone X

Multiple Zone \_\_\_\_\_

Comingled \_\_\_\_\_

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Desert Creek I	5408	5465			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
13-3/8"	48#	H-40	90	No Test	150		Surface
8-5/8"	24#	J-55	1510	800	1350		Surface
4-1/2"	9.5#	J-55	5545	800	200 sx & 400 Gal Latex		4275

PBTD 5485'

TOTAL DEPTH 5555'

PACKERS SET DEPTH Baker Model A Tension Pkr @ 5357.80'

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

FORMATION	Desert Creek I		
SPACING & SPACING ORDER NO.	40 acre Cause #C-3(B)		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery		
PERFORATED	5408-15		
INTERVALS	5421-28		
	5438-44		
	5450-65		
ACIDIZED?	12/14/66 15000 Gal 28% Acid		
FRACTURE TREATED?	No		

INITIAL TEST DATA

Converted to Injector 5/17/64

Date	5/17/64		
Oil, bbl./day	--		
Oil Gravity	--		
Gas, Cu. Ft./day	--	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	--		
Water-Bbl./day	1420		
Pumping or Flowing	Pumping		
CHOKE SIZE	--		
FLOW TUBING PRESSURE	2300#		

A record of the formations drilled through, and pertinent remarks are presented on the reverse.  
(use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone 307-237-3791

A.E. Stuart, Area Manager

Name and title of representative of company

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 19 83

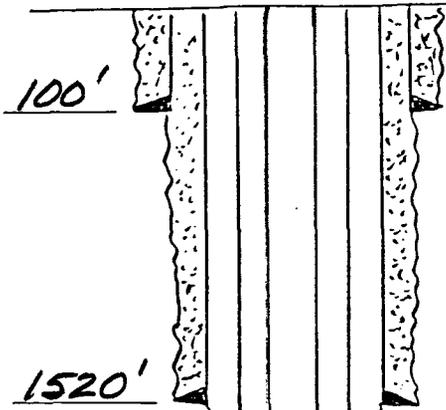
SEP 22 '83

Casper

WELL: 9W41  
LOCATION: NENE Sec 9 41S-24E  
FIELD: GREATER ANETH  
RESERVOIR: Desert Creek I

WELL COMPLETION: 5.17.64  
PRESENT STATUS: S.I.

RKB 4524'  
GL 4514'



SURFACE CASING: 1 3/8" 48#  
H-40

INTERMEDIATE CASING: 8 5/8" 24#  
J-55

PRODUCTION CASING: 4 1/2" 9.5#  
J-55

PERFORATIONS: \_\_\_\_\_  
5408-15  
5421-28  
5438-44  
5450-65  
\_\_\_\_\_  
\_\_\_\_\_

PACKER: BAKER TENSION  
PKR @ 5357.8'  
Tubing: 2" @ 5357.8'

4275'

5357.8'

5408' 5465'

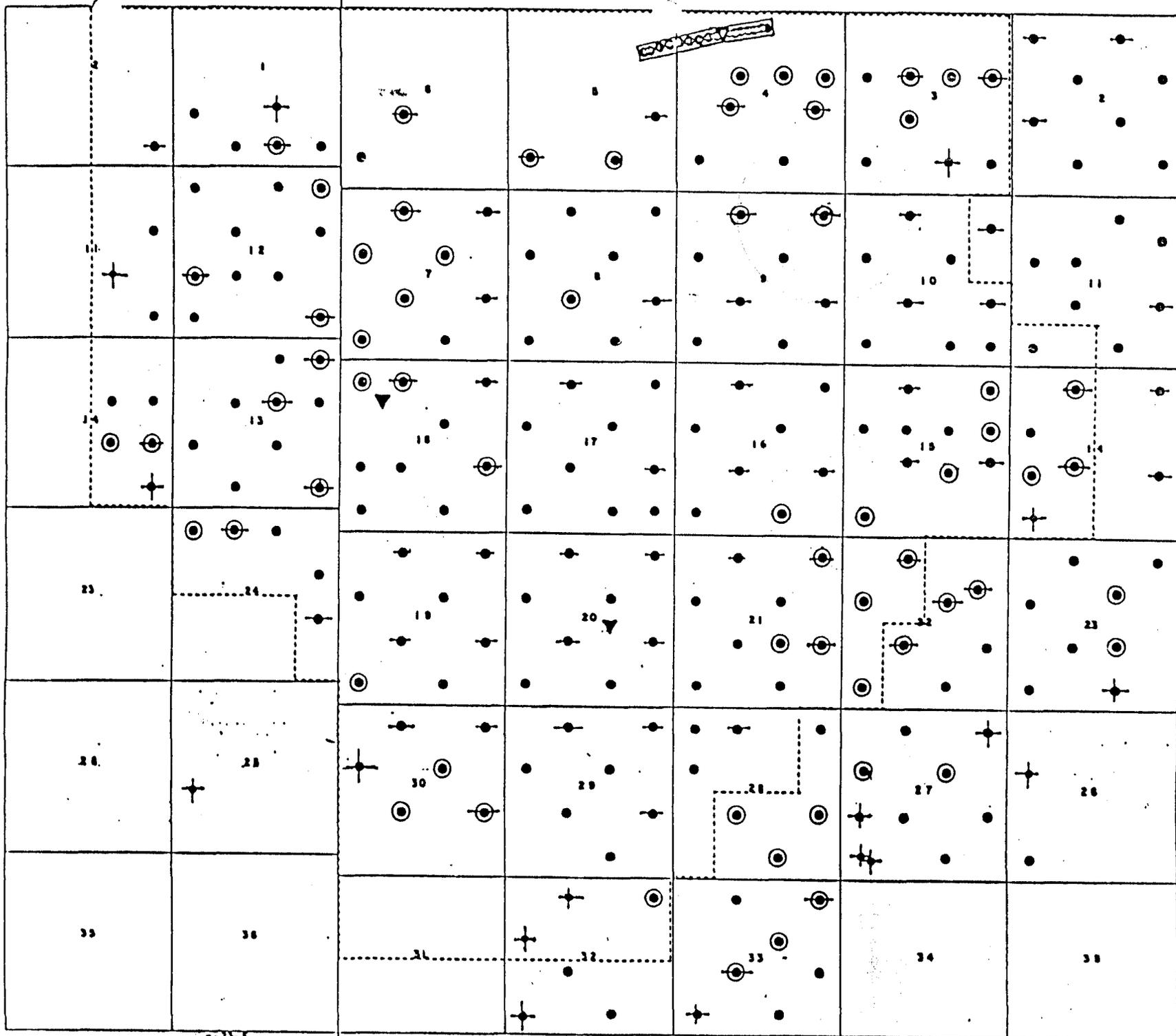
PBTD: 5485'  
OTD: 5335'

5354'

Phillips Petroleum Company

R-23-E

R-24-E



RATHERFORD UNIT  
 SAN JUAN COUNTY, UTAH  
 2" = 1 mile  
 RCT 3-83

- oil producer
- ◐ water injector
- ◑ water supply
- ▼ domestic water
- ⊕ plugged & abandoned
- shut in well
- unit boundary

Water Injection Well

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794  
Casper, Wyoming

WATER ANALYSIS REPORT

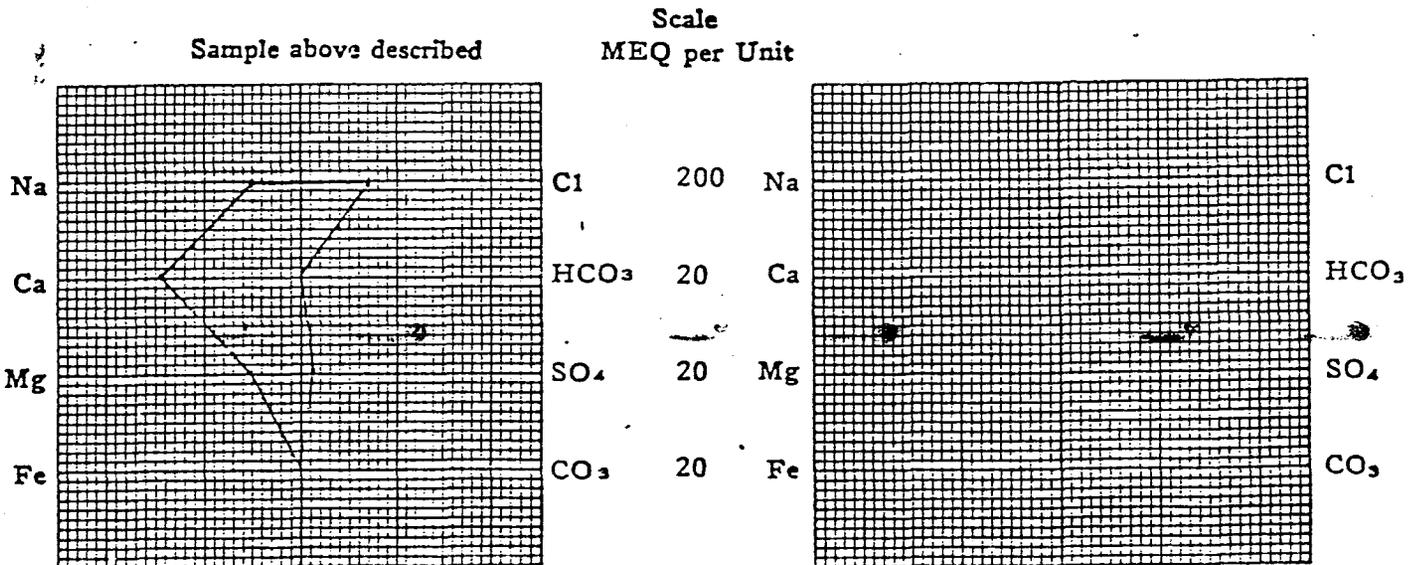
OPERATOR Phillips Petroleum Co. DATE 5-27-83 LAB NO. W30480  
 WELL NO. Rutherford Unit LOCATION \_\_\_\_\_  
 FIELD \_\_\_\_\_ FORMATION \_\_\_\_\_  
 COUNTY San Juan INTERVAL \_\_\_\_\_  
 STATE Utah SAMPLE FROM \_\_\_\_\_

REMARKS & CONCLUSIONS: Specific gravity @68°F ----- 1.0646  
 Oil and grease, mg/l ----- 2.5  
 Aluminum (Al), mg/l ----- 0.90  
 Iron (Fe), mg/l ----- 0.3  
 Total Sulfides, mg/l ----- ND(0.1)

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	24574	1068.99	Sulfate	1190	24.75
Potassium	396	10.14	Chloride	52000	1466.40
Lithium	-	-	Carbonate	0	0.00
Calcium	5982	298.50	Bicarbonate	190	3.12
Magnesium	1419	116.64	Hydroxide	-	-
Iron	-	-	Hydrogen sulfide	-	-
<b>Total Cations</b>		<b>1494.27</b>	<b>Total Anions</b>		<b>1494.27</b>

Total dissolved solids, mg/l ----- 85655  
 NaCl equivalent, mg/l ----- 86344  
 Observed pH ----- 7.4  
 Specific resistance @ 68°F.:  
 Observed ----- 0.095 ohm-meters  
 Calculated ----- 0.086 ohm-meters

WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

CL1-12A (REV. 1964).

# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794  
Casper, Wyoming

## WATER ANALYSIS REPORT

OPERATOR Phillips Petroleum Company DATE 7-22-83 LAB NO. W30636  
 WELL NO. Ratherford Unit LOCATION \_\_\_\_\_  
 FIELD \_\_\_\_\_ FORMATION \_\_\_\_\_  
 COUNTY San Juan INTERVAL \_\_\_\_\_  
 STATE Utah SAMPLE FROM Battery #1 Free water knockout  
(7-5-83) @ 10:35  
S/N 28568

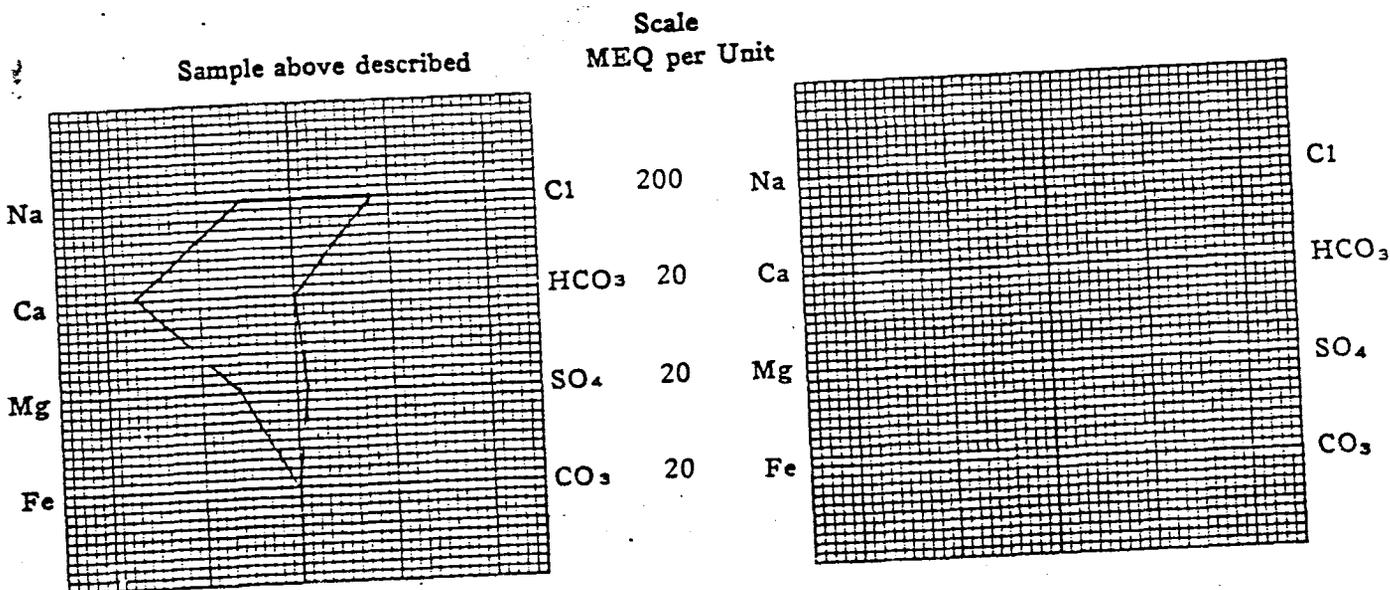
REMARKS & CONCLUSIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	30147	1311.38	Sulfate	1380	28.70
Potassium	429	10.98	Chloride	63000	1776.60
Lithium	--	--	Carbonate	0	0.00
Calcium	6865	342.56	Bicarbonate	151	2.48
Magnesium	1738	124.86	Hydroxide	--	--
Iron	--	--	Hydrogen sulfide	--	--
<b>Total Cations</b>		<b>1807.78</b>	<b>Total Anions</b>		<b>1807.78</b>

Total dissolved solids, mg/l	103633	Specific resistance @ 68°F.:	
NaCl equivalent, mg/l	104549	Observed	0.087 ohm-meters
Observed pH	7.3	Calculated	0.078 ohm-meters

### WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Phillips Well No. Rutherford Unit 9W41  
 County: Sanderson T 41S R 24E Sec. 9 API# 43-031-16399  
 New Well  Conversion  Disposal Well  Enhanced Recovery Well

	YES	NO
UIC Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Fluid Source Desert Creek

Analysis of Injection Fluid Yes  No  TDS 85655

Analysis of Water in Formation to be injected into Yes  No  TDS 103633

Known USDW in area Wingate Depth 1350

Number of wells in area of review 60 Prod. 4 P&A 0  
 Water 0 Inj. 2

Aquifer Exemption Yes  NA L

Mechanical Integrity Test Yes  No L

Date \_\_\_\_\_ Type \_\_\_\_\_

Comments: TOC 42 175

---



---

Reviewed by: [Signature]

UTAH DIVISION OF OIL, GAS AND MINING  
CASING-BRADENHEAD TEST

OPERATOR: Phillips Petroleum Company

FIELD: Greater Aneth LEASE: Rutherford Unit

WELL # 9W41 SEC. 9 TOWNSHIP 41S RANGE 24E

STATE (FED.) FEE DEPTH 5485 TYPE WELL INSW MAX. INJ. PRESS. \_\_\_\_\_

SD 4/3/80

TEST DATE 6/17/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>13 3/8</u>	<u>100</u>	<u>150</u>		<u>ST</u>	
<u>INTERMEDIATE</u>	<u>8 5/8</u>	<u>1520</u>	<u>1350</u>			
<u>PRODUCTION</u>	<u>4 1/2</u>	<u>5554</u>	<u>2005x + 400 later</u>			

TUBING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
	<u>2"</u>	<u>5357.8</u>				
	<u>Baker Tension Per at 5465</u>					

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						

TUBING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						

TUBING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1.  OIL WELL  GAS WELL  OTHER WATER INJECTION & WATER SUPPLY WELLS

2. NAME OF OPERATOR  
PHILLIPS PETROLEUM COMPANY

3. ADDRESS OF OPERATOR  
152 N. DURBIN, 2ND FLOOR, CASPER, WYOMING 82601

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

5. LEASE DESIGNATION AND SERIAL NO.  
SW-I-4192

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
RATHERFORD UNIT #7960041920

8. FARM OR LEASE NAME

9. WELL NO.  
VARIOUS (see attached)

10. FIELD AND POOL, OR WILDCAT  
GREATER ANETH

11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA  
Sections 1 thru 30  
T41S - R23E & 24E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
BLM, GAS & MINING

RECEIVED  
MAR 20 1989

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 PLANE <input type="checkbox"/>	(Other) CHANGE OF OWNERSHIP <input checked="" 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.)\*

This is to advise all Water Injection and Water Supply Wells on the Ratherford Unit, listed on the attached sheet, were sold to Phillips Petroleum Company, effective August 1, 1985.  
  
(former Operator - Phillips Oil Company)

3 - BLM, Farmington, NM  
2 - Utah O&G CC, SLC, UT  
1 - File

18. I hereby certify that the foregoing is true and correct  
SIGNED S. H. Oden TITLE District Superintendent DATE March 17, 1989  
(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  
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.  
14-20-603-4035

6. If Indian, Allottee or Tribe Name

Navajo Tribal

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

8. Well Name and No.

Ratherford Unit #9W41

9. API Well No.

43-037-16399

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 Injection

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)

Unit A, 660' FNL & 660' FEL  
Section 9, 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 Determine Csg Condition & MIT Failure
	<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.)\*

9-10-92 thru 9-16-92

MIRU MWS #31. ND WH & NU BOP's. POOH w/injection string. Checked surface csg for pressure, 0 psi. Surface csg did not circulate w/500 psi. TIH w/2-3/8" tbg to 5379'. Clean out to 5415'. Circ. hole clean. TIH w/RBP & pkr. Tested 4-1/2" csg to 1000 psi. Circ. up surface csg @ est. rate of 2.1 BPM w/175 psi. Tested below pkr to 1000 psi - okay. Tested down tbg to 1000 psi. Located hole between 2287' & 2303'. TIH w/cmt retainer and set @ 5309'. POOH and laid down tbg. ND BOP's and NU WH. RDMO. Temporarily abandoned well waiting for approval to P&A.

RECEIVED

OCT 05 1992

DIVISION OF  
OIL GAS & MINING

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

Signed *L. E. Robinson* Title Sr. Drlg. & Prod. Engr. Date 9-30-92  
L. E. Robinson

(This space for Federal or State office use)

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

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

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.

14-20-603-4035

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

Ratherford Unit  
SW-I-4192

8. Well Name and No.

Ratherford Unit #9W41

9. API Well No.

43-039-16399

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 Water Injector

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)

660' FNL & 660' FEL  
Sec. 9, 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 checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input 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 _____	<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.)

This shut-in injection well cannot be economically reactivated. Attached is a copy of the proposed P&A procedure.

Accepted by                      State  
of Utah Division of  
Oil, Gas and Mining

Date: 10-26-92

By: *[Signature]*

RECEIVED

OCT 19 1992

DIVISION OF  
OIL, GAS & MINING

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

Signed *[Signature]* Title Sr. Drlg. & Prod. Engr. Spec. Date 10-13-92

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Federal Approval of this \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any: Action is Necessary

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

RATHERFORD UNIT #9W41  
PLUG AND ABANDONMENT PROCEDURE  
SEPT. 22, 1992

Safe operations are of utmost importance at all Phillips Petroleum Company properties and facilities. To further this goal, the Phillips Supervisor at the location shall request tailgate safety meetings prior to initiation of work and also prior to any critical operations. These tailgate safety meetings shall be attended by all Company, contract, and service personnel then present at the location. All parties shall review proposed upcoming steps, procedures, and potentially hazardous situations. Occurrence of these meetings shall be recorded in the Daily Report.

Formation Tops: Chinle 1525'  
Hermosa 4377'

1. Notify Mark Kelly (505-599-8907) with the BLM and at least 24 hrs. prior to commencement of operations. Also notify Ken Lingo (505-327-6818) with the EPA to witness operations (48 hrs. notice)
2. MI & RU DDU. Monitor well for H<sub>2</sub>S. Install BOP's.
3. Pick up Down Hole Services, cement retainer stinger on 2 3/8" work string and TIH. Sting into cement retainer at 5309' and establish injection rate and pressure. Mix and pump 50 SK premium cement into perforations and to fill casing. Sting out of retainer and pump 6 SK on top of retainer.
4. Pull up to 5200' and circulate hole with Bentonite mud of at least 9 PPG. Premixed mud available from Baroid (505-325-1896).
5. Pull up to 4477. Mix and pump 25 SK premium (50% excess) balanced plug. Plug will extend from 4477' to above 4277' and will isolate the Hermosa formation.
6. POOH. Pick up cement retainer and TIH. Set retainer at 1425'. Establish circulation rate and pressure. Mix and pump 250 SK 65/35 pozz mix followed with 280 sx premium (50% excess). Annulus plug will extend from hole between 2287' and 2303' to surface and will isolate Chinle and annulus side.
7. POOH. Cut off casing at bottom of cellar of three feet below ground level whichever is deeper. TIH and set a 6 SK premium plug from 50' to surface.
8. Erect P&A marker, fill cellar, clean and restor location to BLM specifications which include reseeding the location at the appropriate time.

**CEMENT DATA:**

Premium: 15.8 PPG  
          4.96 GAL/SK  
          1.16 FT<sup>3</sup>/SK

POZ: 12.42 PPG  
      9.5 GAL/SK  
      1.83 FT<sup>3</sup>/SK

WELLBORE DIAGRAM

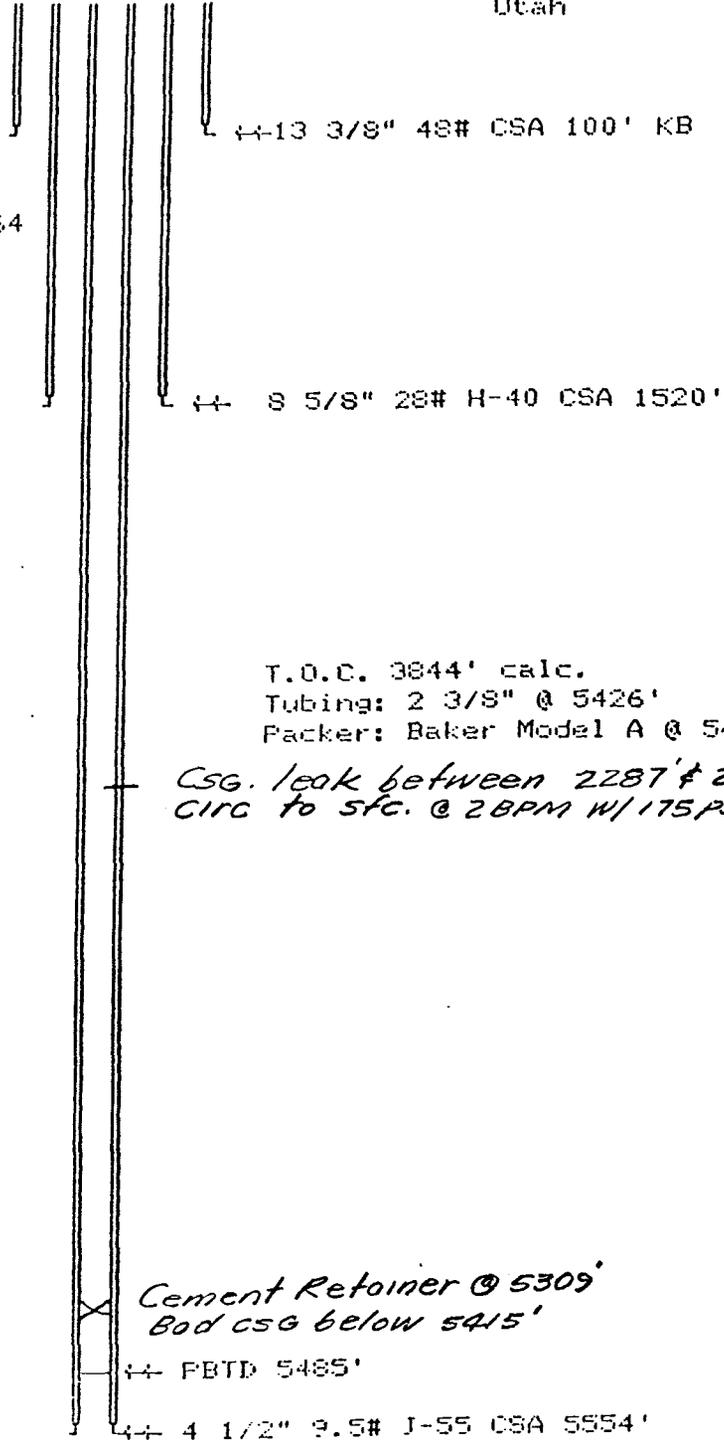
DATE: 7-16-91

MPANY: Phillips Petroleum Company  
WELL: Ratherford Unit No. 9 W 41

Location: NENE Sec. 9  
T41S, R24E  
San Juan County  
Utah

RKB Elev. 4524'  
GL Eley. 4514'  
RKB above GL 10'

Well Drilled 1/10/59  
Converted to Injector 5/15/64



Perforations: 5408-15'  
5421-28'  
5438-44'  
5450-65'

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.

14-20-603-4035

6. If Indian, Allottee or Tribe Name

Navajo Tribal X-1

7. If Unit or CA, Agreement Designation

Ratherford Unit  
SW-I-4192

8. Well Name and No.

Ratherford Unit #9W41

9. API Well No.

43-037-16399

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan, Utah

SUBMIT IN TRIPLICATE

RECEIVED  
MAR 31 1993

1. Type of Well

Oil Well  Gas Well  Other Water Injector

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)

Unit A, 660' FNL & 660' FEL  
Section 9, 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 P&A
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

2-26-93 thru 3-2-93

MIRU Big A #31. NU BOP & tested lines. GIH w/tbg and sting into cmt retainer @ 5309' KB. RU Western and PT lines to 2500 psi - okay. Sting into retainer @ 5309' KB & pmp'd plug #1 w/60 sx Class H Neat, 12.3 bbls slurry, 69.6 ft<sup>3</sup>, sting out of retainer and left 10 sx cmt on top of retainer, cmt top @ 5193' KB. COOH to 5193' KB and reverse circ tbg clean & established rate @ 3 BPM @ 300 psi to surface. Loaded hole w/9 ppg mud. COOH to 4485' KB. Pmp'd plug #2 w/25 sx Class H Neat, 29 ft<sup>3</sup>, 5.2 bbls slurry, top of plug @ 4184' KB. COOH w/tbg. RIH w/retainer & set @ 1417' KB. Established rate @ 3 BPM @ 300 psi into hole in csg @ 2287'-2303'. Pmp'd plug #3 w/81 bbls slurry 65/35 Poz w/6% gel, 250 sx @ 458 ft<sup>3</sup>. Tailed w/266 sx Class H Neat, 55 bbls slurry, 308 ft<sup>3</sup>. Good circ to surface. Cmt to surface & sting out of retainer & left 2 bbls of Class H Neat on top of retainer. Plug top @ 1295' KB. COOH w/tbg. Set end of tbg @ 152' KB. Pmp'd plug #4 w/15 sx Class H Neat, 3 bbls slurry, 17.4 ft<sup>3</sup> covering from 152' to surface inside 4-1/2" casing. RD Western & ND BOP. Well P&A'd. (P&A witnessed by Ken Lingo w/EPA and Leonard Bixler w/BLM)

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

Signed L. E. Robinson  
(This space for Federal or State office use)

Title Sr. Drlg. & Prod. Engr.

Date 3-29-93

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

Title \_\_\_\_\_

Date \_\_\_\_\_

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

\*See instruction on Reverse Side

# 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

*Handwritten notes:*  
USDA  
5-18-93

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

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

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

# MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

*L.S. SHEFFIELD*  
~~BRIAN BERRY~~  
~~HEPNA MOBIL~~  
~~POB 219031 1807A RENTWR~~ *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. S. Sheffield

Telephone Number: 303.565.2212  
244.658.2578

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.

**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.)

6. IF INDIAN ALLOTTEE OR TRIBE NAME

NAVAJO TRIBAL

1. OIL  GAS   
WELL  WELL  OTHER

7. UNIT AGREEMENT NAME

RATHERFORD UNIT

2. NAME OF OPERATOR

MOBIL OIL CORPORATION

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR

P. O. BOX 633 MIDLAND, TX 79702

9. WELL NO.

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

10. FIELD AND POOL, OR WILDCAT  
GREATER ANETH

At proposed prod. zone

DIVISION OF  
OIL, GAS & MINING

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

14. API NO.

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

12. COUNTY  
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  PULL OR ALTER CASING   
FRACTURE TREAT  MULTIPLE COMPLETE   
SHOOT OR ACIDIZE  ABANDON   
REPAIR WELL  CHANGE PLANS   
(Other)

WATER SHUT-OFF  REPAIRING WELL   
FRACTURE TREATMENT  ALTERING CASING   
SHOOTING OR ACIDIZING  ABANDONMENT\*   
(Other) CHANGE OF OPERATOR  
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

APPROX. DATE WORK WILL START \_\_\_\_\_

DATE OF COMPLETION \_\_\_\_\_

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

\* Must be accompanied by a cement verification report.

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

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

SIGNED Shirley J. Todd

TITLE ENV. & REG TECHNICIAN

DATE 9-8-93

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

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.

*File Rutherford Unit (GC)*

RECEIVED  
BLM

JUL 27 11:44

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

070 FARMINGTON, NM

ARES/543

JUL 26 1993

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

MINERAL RIGHTS	
NO. 1872	
DATE	
BY	
REMARKS	3 2
GPS	
ALL SUPV.	
FILE	

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 Rutherford 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

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

JUN 27 11:44  
070 FARMINGTON, NM

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

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

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

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

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

Attached hereto as Exhibit "A"

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

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

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

Attached is the appropriate documentation relevant to this document.

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

Phillips Petroleum Company

June 17, 1993

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

Mobil Exploration and Producing  
North America Inc.

June 11, 1993

By: B. D. [Signature]  
Attorney-in-Fact B.D. MARTINY

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

APPROVED PURSUANT, TO SECRETARIAL REDELEGATION ORDER 209 DM 8 AND 230 DM 3.

This form does not constitute an information collection as defined by 44 U.S.C. 3502 and therefore does not require OMB approval.

EXHIBIT "A"

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

EXHIBIT "C"

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

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

100% Indian Lands

TOTAL 12,909.74

100.0000000

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

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

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

Other  
OPERATOR CHANGE

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

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

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

of (Company/Organization) MOBIL

3. Topic of Conversation: OPERATOR CHANGE FROM PHILLIPS TO MOBIL "RATHERFORD UNIT".  
(NEED TO CONFIRM HOW OPERATOR WANTS THE WELLS SET UP - MEPNA AS PER BIA APPROVAL  
OR MOBIL OIL CORPORATION AS PER SUNDRY DATED 9-8-93?)

4. Highlights of Conversation: \_\_\_\_\_  
MR. COX CONFIRMED THAT THE WELLS SHOULD BE SET UNDER ACCOUNT N7370/MEPNA AS  
PER BIA APPROVAL, ALSO CONFIRMED THAT PRODUCTION & DISPOSITION REPORTS WILL NOW  
BE HANDLED OUT OF THEIR CORTEZ OFFICE RATHER THAN DALLAS.

MEPNA-

PO DRAWER G

CORTEZ, CO 81321

(303)565-2212

\*ADDRESS CHANGE AFFECTS ALL WELLS CURRENTLY OPERATED BY MEPNA, CURRENTLY  
REPORTED OUT OF DALLAS (MCELMO CREEK).

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

Routing:	
1-VLC/017-93	<input checked="" type="checkbox"/>
2-DPS/58-APR	<input checked="" type="checkbox"/>
3-VLC	<input checked="" type="checkbox"/>
4-RJE	<input checked="" type="checkbox"/>
5-IFC	<input checked="" type="checkbox"/>
6-PL	<input checked="" type="checkbox"/>

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

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

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

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

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

Name: <b>**SEE ATTACHED**</b>	API: <u>43037-16399</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 8-20-93) (6/93 Prod. Rpt. 8-16-93)
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 8-31-93) (Rec'd 9-14-93)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- Sec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 6. Cardex file has been updated for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 7. Well file labels have been updated for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-6-93)
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

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

BOND VERIFICATION (Fee wells only)

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no) no. Today's date 11-17 1993. If yes, division response was made by letter dated 11-17 1993.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 11-17 1993, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- 1. All attachments to this form have been microfilmed. Date: 11-17 1993.

FILED

- 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.

WELL #	API#	LEASE #	SEC., T, R	LOCATION OF WELL
01W-13	43-037-15838	14-20-603-246A	SEC. 1, T41S, R23E	NW/SW 1980 FSL; 660 FWL
01-14	43-037-31162	14-20-603-246A	SEC. 1, T41S, R23E	SW/SW 660 FSL; 660 FWL
01W-24	43-037-15839	14-20-603-246	SEC. 1, T41S, R23E	SE/SW 651 FSL; 3300 FEL
01-34	43-037-16385	14-20-603-246A	SEC. 1, T41S, R23E	SW/SE 4147 FNL; 1980 FEL
01W-44	43-037-15840	14-20-603-246A	SEC. 1, T41S, R23E	660 FSL; 661 FEL
02W-44	43-037-16386	14-20-603-246A	SEC. 2, T41S, R23E	SE/SE 810 FNL; 5110' FWL
03-14	43-037-15124	14-20-603-5445	SEC. 3, T41S, R24E	660 FSL; 660 FEL
03-12	43-037-15620	14-20-603-6506	SEC. 3, T41S, R24E	SW/NW 2140 FNL; 660 FWL
03W-42	43-037-16388	14-20-603-6505	SEC. 3, T41S, R24E	SW/NE 1980 FNL; 660 FEL
03-44	43-037-15031	14-20-603-6504	SEC. 3, T41S, R24E	520 FSL; 820 FEL
04-14	43-037-16163	14-20-603-5446	SEC. 4, T41S, R24E	500 FSL; 600 FEL
04-34	43-037-16164	14-20-603-4035	SEC. 4, T41S, R24E	660 FSL; 1980 FEL
05-34	43-037-15983	14-20-603-368	SEC. 5, T41S, R24E	SW/SE 612 FSL; 1990 FEL
05W-43	43-037-16392	14-20-603-368	SEC. 5, T41S, R24E	1400 FSL; 990 FEL
06W-14	43-037-15984	14-20-603-368	SEC. 6, T41S, R24E	SW/SW 660; FSL; 660 FWL
06W-23	43-037-16393	14-20-603-368	SEC. 6, T41S, R24E	1830 FSL; 1895 FWL
07-11	43-037-31163	14-20-603-368	SEC. 7, T41S, R24E	NW/NW 660 FNL; 710 FWL
07W-12	43-037-15985	14-20-603-368	SEC. 7, T41S, R24E	SW/NW 2140 FNL; 585 FWL
07-13	43-037-31164	14-20-603-368	SEC. 7, T41S, R24E	NW/SW 2110 FSL; 740 FWL
07W-14	43-037-15986	14-20-603-368	SEC. 7, T41S, R24E	SW/SW 1065 FSL; 660 FWL
07W-21	43-037-16394	14-20-603-368	SEC. 7, T41S, R24E	710 FNL; 1820 FWL
07-22	43-037-31165	14-20-603-368	SEC. 7, T41S, R24E	SE/NW 1980 FNL; 1980 FWL
07W-23	43-037-15987	14-20-603-368	SEC. 7, T41S, R24E	NE/SW 1980 FSL 1980 FWL
07-24	43-037-31166	14-20-603-368	SEC. 7, T41S, R24E	SE/SW 880 FSL; 2414 FWL
07W-32	43-037-15988	14-20-603-368	SEC. 7, T41S, R23E	SW/NE 1980 FNL; 1980 FEL
07-33	43-037-31167	14-20-603-368	SEC. 7, T41S, R24E	NW/SE 2105 FSL; 1876 FEL
07W-34	43-037-15989	14-20-603-368	SEC. 7, T41S, R24E	710 FSL; 2003 FEL
07W-41	43-037-15990	14-20-603-368	SEC. 7, T41S, R24E	NE/NE 585 FNL; 770 FEL
07W43	43-037-16395	14-20-603-368	SEC. 7, T41S, R24E	2110 FSL; 660 FEL
07-44	43-037-31189	14-20-603-368	SEC. 7, T41S, R24E	SE/SE 737 FSL; 555 FEL
08-12	43-037-15991	14-20-603-368	SEC. 8, T41S, R24E	SW/NW 1909 FNL; 520 FWL
08W-14	43-037-15992	14-20-603-368	SEC. 8, T41S, R24E	745 FSL; 575 FWL
08-21	43-037-15993	14-20-603-368	SEC. 8, T41S, R24E	616 FNL; 1911 FWL
08-23	43-037-15994	14-20-603-368	SEC. 8, T41S, R24E	NE/NW 1920 FSL; 2055 FWL
08-32	43-037-15995	14-20-603-368	SEC. 8, T41S, R24E	SW/NE 1980 FNL; 1980 FEL
08-34	43-037-15996	14-20-603-368	SEC. 8, T41S, R24E	SW/SE 660 FSL; 1980 FEL
08-41	43-037-15997	14-20-603-368	SEC. 8, T41S, R24E	NE/NE 660 FNL; 660 FEL
08W-43	43-037-16396	14-20-603-368	SEC. 8, T41S, R24E	1980 FSL; 660 FEL
09W-23	43-037-16398	14-20-603-5046	SEC. 9, T41S, R24E	NW/SE 1980 FSL; 1980 FWL
09-12	43-037-15126	14-20-603-5045	SEC. 9, T41S, R24E	1865 FNL; 780 FWL
09W-21	43-037-16397	14-20-603-5045	SEC. 9, T41S, R24E	660 FNL; 2080 FWL
09-14A	43-037-15127	14-20-603-5046	SEC. 9, T41S, R24E	710 FSL; 660 FWL
09-32	43-037-16165	14-20-603-4035	SEC. 9, T41S, R24E	1980 FNL; 1980 FEL
09W-41	43-037-16399	14-20-603-4035	SEC. 9, T41S, R24E	660 FNL; 660 FEL
09W-43	43-037-16400	14-20-603-4043	SEC. 9, T41S, R24E	1980 FSL; 660 FEL
10W-23	43-037-16402	14-20-603-4043	SEC. 10, T41S, R24E	1980 FSL; 1980 FWL
10-14	43-037-15713	14-20-603-4043	SEC. 10, T41S, R24E	510 FSL; 710 FWL
10-12	43-037-15712	14-20-603-4043	SEC. 10, T41S, R24E	660 FWL; 1980 FNL
10W-21	43-037-16401	14-20-603-4043	SEC. 10, T41S, R24E	810 FNL; 1980 FWL
10-34	43-037-16166	14-20-603-4037	SEC. 10, T41S, R24E	620 FSL; 1860 FEL
10W-43	43-037-16403	14-20-603-4037	SEC. 10, T41S, R24E	1980 FSL; 550 FEL
11-41	43-037-31544	14-20-603-246A	SEC. 11, T41S, R23E	NE/NE 860 FNL; 350 FEL
11-42W	43-037-15841	14-20-603-246	SEC. 11, T41S, R23E	3290 FNL; 4617 FEL
11-43	43-037-31622	14-20-603-246A	SEC. 11, T41S, R23E	1980 FSL; 660 FEL
11W-44	43-037-15842	14-20-603-246A	SEC. 11, T41S, R23E	SE/SE 660 FSL; 558 FEL
12W-11	43-037-15843	14-20-603-246A	SEC. 12, T41S, R23E	NW/NW 678 FNL; 4620 FEL
12-12	43-037-31190	14-20-603-246A	SEC. 12, T41S, R23E	SW/NW 1850 FNL; 660 FWL
12W-13	43-037-16404	14-20-603-246A	SEC. 12, T41S, R23E	1980 FSL; 4620 FEL
12-14	43-037-15844	NA	SEC. 12, T41S, R23E	660 FNL; 4622 FWL
12-21	43-037-31201	14-20-603-246A	SEC. 12, T41S, R23E	NE/NW 660 FNL; 1980 FWL
12W-22	43-037-15845	14-20-603-246	SEC. 12, T41S, R23E	NA
12-23	43-037-15846	14-20-603-246A	SEC. 12, T41S, R23E	1958 FNL; 3300 FWL
12W-24	43-037-31151	14-20-603-246A	SEC. 12, T41S, R23E	775 FSL; 1980
12-32	43-037-31203	14-20-603-246A	SEC. 12, T41S, R23E	SW/NE 1820 FNL; 1820 FEL
12W-33	43-037-15848	14-20-603-246A	SEC. 12, T41S, R23E	NW/SE 1957 FSL; 1981 FEL
12-34	43-037-31126	14-20-603-246A	SEC. 12, T41S, R23E	SW/SE 675 FSL; 1905 FEL
12-41	43-037-15849	14-20-603-246A	SEC. 12, T41S, R23E	656 FNL; 660 FEL
12W-42	43-037-15850	14-20-603-246A	SEC. 12, T41S, R23E	3275 FSL; 662 FEL

PAID RECEIVED

SEP 15 1993

DIVISION OF OIL, GAS & MINING

PAID

PAID PAID

14-20-603-246

SE NW 1920 FNL 2080 FWL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. See Listing below
2. Name of Operator Mobil Producing TX & NM Inc* *Mobil Exploration & Producing US Inc as agent for MPTM		6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3a. Address P.O. Box 4358, Houston, TX 77210-4358	3b. Phone No. (include area code) 713-431-1022	7. If Unit or CA/Agreement, Name and/or No. Ratherford Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) See Listing below		8. Well Name and No. See Listing below
		9. API Well No. See Listing below
		10. Field and Pool, or Exploratory Area Greater Aneth
		11. County or Parish, State San Juan, UTAH

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

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

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

Mobil Exploration & Producing US Inc. as agent for Mobil Producing Texas & New Mexico Inc. & Mobil Exploration & Producing North America Inc requests Final Clearance on the following Abandoned wells as listed in your Letter 070 3160 :

- 1) Ratherford Well # 1-W-44, 660' FSL/660' FEL, Sec. 01-T41S-R23E, Lease # 14-20-603-246A; 43-037-15840
- 2) Ratherford Well # 24-11, 510' FNL/810' FWL, Sec. 24-T41S-R23E, Lease # 14-20-603-247A; 43-037-15861
- 3) Ratherford Well # 5-W-43, 1400' FSL/990' FEL, Sec. 05-T41S-R24E, Lease # 14-20-603-368; 43-037-16392
- 4) Ratherford Well # 9-32, 1980' FNL/1980' FEL, Sec. 09-T41S-R24E, Lease # 14-20-603-4035; 43-037-16165
- 5) Ratherford Well # 9-W-41, 660' FNL/660' FEL, Sec. 09-T41S-R24E, Lease # 14-20-603-4035.

**RECEIVED**

OCT 17 2000

DIVISION OF OIL, GAS AND MINING  
43-037-16399

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Mark Del Pico	Title Regulatory Specialist
Signature <i>Mark Del Pico</i>	Date 10/16/00

**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.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington District Office  
1235 La Plata Highway - Suite A  
Farmington, New Mexico 87401

Permits

SEP 25 2000

IN REPLY REFER TO:  
070 3160

Mr. Mark Del Pico  
Mobil Exploration & Producing Inc.  
P.O. Box 4358  
Houston, TX 77210-4358

SEP 18 2000

Dear Mr. Del Pico:

Our office has been notified by letter dated August 31, 2000 from the Bureau of Indian Affairs (BIA) addressing inspections performed in the Rutherford Unit by Ms. Linda Taylor, Realty Specialist for the BIA of Shiprock, N.M.. Five Plugged and Abandoned wells are recommended for final abandonment. They are:

1. Rutherford Well No. 1W44, 660' FSL/660' FEL, section 1, T.41S., R.23E., San Juan County, Utah, lease No. 14-20-603-246A.
2. Rutherford Well No. 24-11, 510' FNL/810' FWL, section 24, T.41S., R.23E., San Juan County, Utah, lease No. 14-20-603-247A.
3. Rutherford Well No. 5W43, 1400' FSL/990' FEL, section 5, T.41S., R.24E., San Juan County, Utah, lease No. 14-20-603-368.
4. Rutherford Well No. 9-32, 1980' FNL/1980' FEL, section 9, T.41S., R.24E., San Juan County, Utah, lease No. 14-20-603-4035.
5. Rutherford Well No. 9W41, 660' FNL/660' FEL, section 9, T.41S., R.24E., San Juan County, Utah, lease No. 14-20-603-4035.

Therefore, these wells are hereby approved for final abandonment.

Sincerely,

Rich Dembowski,  
Petroleum Management Team Leader

cc: Ms. Sharon Ustianowski  
Mobil Exploration & producing  
P.O. Drawer G  
Cortez, Colorado 81321

bcc:  
Well File (5)  
D&P  
L&RR reader file  
070:RSanchez: ras:09/18/00

RECEIVED

OCT 17 2000

DIVISION OF  
OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. See Listing below
2. Name of Operator Mobil Producing TX & NM Inc.* *Mobil Exploration & Producing US Inc as agent for MPTM		6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3a. Address P.O. Box 4358, Houston, TX 77210-4358	3b. Phone No. (include area code) 713-431-1828	7. If Unit or CA/Agreement, Name and/or No. Ratherford Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) See Listing below		8. Well Name and No. See Listing below
		9. API Well No. See Listing below
		10. Field and Pool, or Exploratory Area Greater Aneth
		11. County or Parish, State San Juan, UTAH

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

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

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

**BOND RELEASE:**

THE SUBJECT LOCATIONS HAVE BEEN RECLAIMED AND ARE READY FOR INSPECTION AND BOND RELEASE. PLEASE RELEASE MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MOBIL PRODUCING TX & NM INC. FROM ANY FURTHER LIABILITY FOR THESE LOCATIONS AND REMOVE THEM FROM THE FEDERAL BOND LISTING.

- |                              |                    |                    |                                    |
|------------------------------|--------------------|--------------------|------------------------------------|
| 1) Ratherford Well # 1-W-44, | 660'FSL/660'FEL,   | Sec. 01-T41S-R23E, | Lease #14-20-603-246A-43-037-15840 |
| 2) Ratherford Well # 24-11,  | 510'FNL/810'FWL,   | Sec. 24-T41S-R23E, | Lease #14-20-603-247A-43-037-15861 |
| 3) Ratherford Well # 5-W-43, | 1400'FSL/990'FEL,  | Sec. 05-T41S-R24E, | Lease #14-20-603-368-43-037-16392  |
| 4) Ratherford Well # 9-32,   | 1980'FNL/1980'FEL, | Sec. 09-T41S-R24E, | Lease #14-20-603-4035-43-037-16165 |
| 5) Ratherford Well # 9-W-41, | 660'FNL/660'FEL,   | Sec. 09-T41S-R24E, | Lease #14-20-603-4035-43-037-16399 |

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Cathy Higginbotham	Title Staff Administrative Assistant
Signature <i>Cathy Higginbotham</i>	Date 1/9/01

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.