

Scout Report sent out  
 Noted in the NID File  
 Location map pinned  
 Approval or Disapproval Letter  
 Date Completed, P. & A. or  
 operations suspended  
 Pin changed on location map  
 Affidavit and Record of A & P  
 Water Shut-Off Test  
 Gas-Oil Ratio Test  
 Well Log Filed

**FILE NOTATIONS**

Entered in NID File \_\_\_\_\_ Checked by Chief \_\_\_\_\_  
 Entered On S R Sheet \_\_\_\_\_ Copy NID to Field Office \_\_\_\_\_  
 Location Map Pinned \_\_\_\_\_ Approval Letter \_\_\_\_\_  
 Card Indexed \_\_\_\_\_ Disapproval Letter \_\_\_\_\_  
 IWR for State or Fee Land \_\_\_\_\_

COMPLETION DATA: 4-14-60 Recompleted

Date Well Completed 5-28-58 Location Inspected \_\_\_\_\_  
 OW  WW \_\_\_\_\_ TA \_\_\_\_\_ Bond released \_\_\_\_\_  
 GW \_\_\_\_\_ OS \_\_\_\_\_ FA \_\_\_\_\_ State of Fee Land \_\_\_\_\_

12-15-60 LOGS FILED

Driller's Log 8-11-58  
 Electric Logs (No. 1)

E \_\_\_\_\_ I \_\_\_\_\_ Et  GR \_\_\_\_\_ GR-N  Micro   
 Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic \_\_\_\_\_ Others \_\_\_\_\_

76 MCF/B  
 9 OR 750

on recompletions

UTAH OIL AND GAS CONSERVATION COMMISSION

WELL LOG 1 ELECTRIC LOGS \_\_\_\_\_ FILE X NO FILE \_\_\_\_\_

REMARKS: 4-6-60: NI to Recomplete Well - Cum. Prod. to 3-1-60, 27,900 bbls.  
 6-2-60: Subsequent Rprt Recompletion--4-23-60 Representative Recompleted  
 IP, pumping 110 BD Gross, 101 BD Clean, 8.2% Cut, 76 MCFGD, GOR 750.  
 RECOMPLETED: 4-14-60.

*9-17-77 Subsequent...*

DATE FILED 3-5-58 Nav 14-20-603

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. INDIAN 246

DRILLING APPROVED: 3-5-58 (Nav Tr. 1)

SPOUDED IN: 4-6-58

COMPLETED: 5-28-58 \*Recompleted 4-14-60

INITIAL PRODUCTION: 282 BOPD \*101 BOPD, 9 BWPD

GRAVITY A. P. I. 41° \*41°

GOR: 370:1

PRODUCING ZONES: 5506-39' \*5448-72' **050704**

TOTAL DEPTH: 5539'

WELL ELEVATION: 4578 UG; 4587' KB

DATE ABANDONED:

FIELD OR DISTRICT: Ratherford *Greater North*

COUNTY: San Juan

WELL NO. RATHERFORD 13-1 *(Ratherford 1-13)* APT 43-037-15838

LOCATION: 1980 FT. FROM (N) (S) LINE, 4620 FT. FROM (E) (W) LINE. NW SW ¼-¼ SEC. 1

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
<i>58</i> 41 S	23 E	1	PHILLIPS <i>Oil Co.</i> <del>SHELL OIL COMPANY</del>				

## GEOLOGIC

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

2200'

2322'

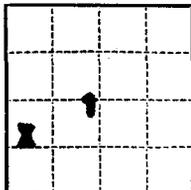
2422'

4476'

5495'

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-30-603-247

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)

February 28, 1958

North Desert Creek

Well No. 13-1 is located 1980 ft. from S line and 4620 ft. from E line of sec. 1

SW1  
( $\frac{1}{4}$  Sec. and Sec. No.)

41E  
(Twp.)

23E  
(Range)

S1E4  
(Meridian)

Rutherford  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation ~~of the casing head~~ is 4576 ft. (Approx. Ground)

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)

Proposed Work:

1. Drill 12-1/4" hole to 1400'±.
2. Run and cement 8-5/8" casing at 1400'± with 700 sacks treated cement.
3. Drill 7-7/8" hole to 5489'±.
4. Cement 5-1/2" casing at 5489'± with 200 sacks construction cement.
5. Clean out to 5491'±.
6. Wireline core 4-3/4" hole to 5644'±.
7. Run tubing with formation packer. Spot 500 gal. mud acid.
8. Acidize in two stages with 3,000 gal. regular and 3,000 gal. retarded acid.
9. Swab well in and establish production rate.

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

Company Shell Oil Company

Address 101 South Behrend Avenue

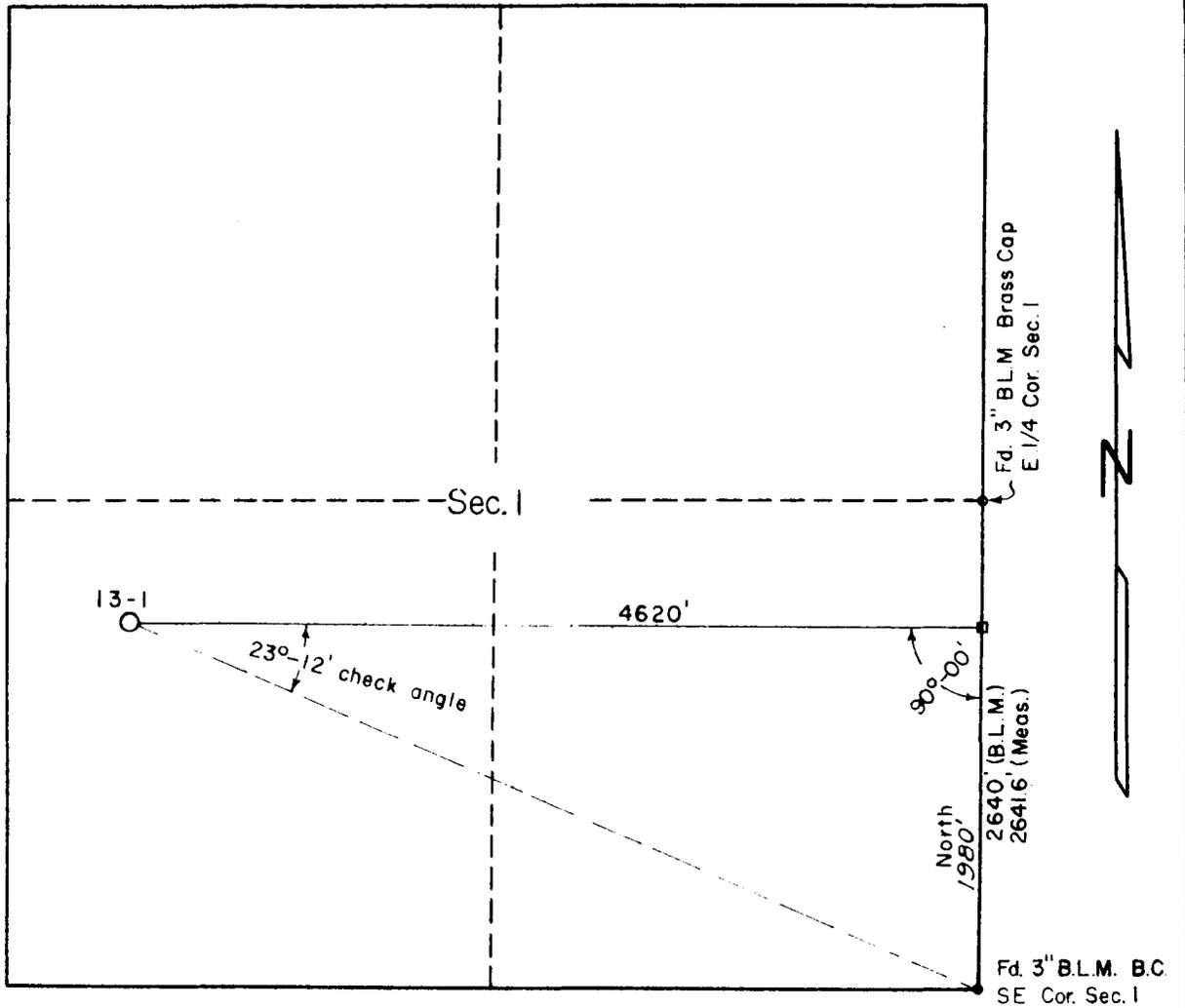
Farmington, New Mexico

By B. W. SHEPARD

Title B. W. Shepard  
Exploitation Engineer

R 23 E

T  
41  
S



Set 1" X 2" hub & 6' Flag at location 1980' N. & 4620' W. from the S.E. corner Sec. 1, T41S, R23E, S.L.B.M. San Juan Co. Utah Tract No. 77.  
 R.P. set 150' N, E, & W. R.P. set 100' S. B.M. S 57 1/4° E 350'  
 Feb 6, 1958. Field book No. F-3, page 35.

Elevation Data

Ground - 4578.6  
 B.M. - 4577.36

This is to certify that the above plat was plotted from field notes of a survey made under my supervision, and that the same is true and correct to the best of my knowledge and belief.

*[Signature]*  
 Registered Land Surveyor  
 Certificate No.         

DRAWN BY B.H.F.

TRACED BY

CHECKED BY *B.H.F.*

**SHELL OIL COMPANY**

DATE 2-6-58

SCALE 1" = 1000'

FILE NO. Z-

LOCATION OF NORTH DESERT CREEK 13-1  
 SAN JUAN COUNTY, UTAH, SEC. 1, T. 41 S., R. 23 E., SLM

March 5, 1958

Shell Oil Company  
101 South Behrend  
Farmington, New Mexico

Attention: B. W. Shepard, Exploitation Engineer

Gentlemen:

This is to acknowledge receipt of your notices of intantion to drill Well No. North Desert Creek (Ratherford) 13-1, which is to be located 1980 feet from the south line and 4620 feet from the east line of Section 1, and Well No. North Desert Creek (Ratherford) 33-1, which is to be located 1980 feet from the south line and 1980 feet from the east line of Section 1, Township 41 South, Range 23 East, SEEM, San Juan County, Utah.

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

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

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
SECRETARY

CRF:cn

cc: Phil McGrath  
USGS, Farmington,  
New Mexico

17

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

X		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 16-80-601-246

SUNDRY NOTICES AND REPORTS ON WELLS

7-H  
4-28

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

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

April 9, 1958

**North Desert Creek**

Well No. 13-1 is located 1900 ft. from S line and 1600 ft. from E line of sec. 1

21 N | 12 E | 21 E | S.L.B.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Rutherford | San Juan | Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation ~~of the surface~~ is 4578 ft. (Approx. Ground)

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 4-6-58)

Run and cemented 8 5/8" #3-55 casing at 1450' with 700 sacks treated cement. Good returns to surface. Flanged up and waited on cement. Tested BOP and casing with 700 psi 15 min., O.K.

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

Company Shell Oil Company

Address 101 S. Behrend

Farmington, New Mexico

By E. W. Shepard

Title Exploitation Engineer

15

52

Ratherford

**DRILLING REPORT**

FOR PERIOD ENDING

1

(FIELD)  
San Juan, Utah  
(COUNTY)

4-30-58

(SECTION OR LEASE)  
T. 41 S., R. 23 E.  
(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
			<p><u>Location:</u> 1980' N and 4620' W of SE Corner, Section 1, T. 41 S., R. 23 E., S.L.B.M., San Juan County, Utah.</p> <p><u>Elevations:</u> DF 4585.5' GR 4577.3' KB 4586.7'</p>
4-6 To 4-8	0	1454	<p>Spudded 2:30 P. M. 4-6-58. Ran and cemented (1440') 8-5/8", 28# and 32# J-55 casing at 1450' with 500 sacks 1:1 Pozzo mix followed by 200 sacks cement treated with 2% calcium chloride. Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 700 psi, OK.</p>
4-9 To 4-28	1454	5539	<p><u>Drilled 4085'</u>. Drilled 7-7/8" hole to 5512' and 4-3/4" hole from 5512' and 4-3/4" hole from 5512' to 5539'. Ran Electrical Survey and Microlog, attempted to run Gamma Ray-Neutron Log twice and shorted out. Ran and cemented (5496') 5-1/2", 14#, J-55 casing at 5506' with 200 sacks cement.</p>
4-29	5539	TD	<p>Drilled out plugs, cement shoe and cleaned out to 5539 with 4-3/4" bit, Ran Gamma Ray-Neutron Log. Displaced mud with water. Hung tubing at 5499'. Released rig 9:00 A. M. 4-30-58.</p> <p>Checked BOP daily Mud Summary wt 9.2 - 10.1#/gal. vis 35-47 sec, WL 8.7-34 cc FC 2-3/32"</p> <p>Contractor: Great Western Drilling Company</p>

**CONDITION AT BEGINNING OF PERIOD**

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4	0	1454	8-5/8"	1450'
7-7/8	1454	5512	5-1/2"	5506'
4-3/4	5512	5539		
DRILL PIPE SIZES			4-1/2"	

W. A. Kennedy

SIGNED

**SHELL OIL COMPANY**

Northern Desert Creek

WELL NO. 13-1

Ratherford

**DRILLING REPORT**

FOR PERIOD ENDING

5-28-58

1

(SECTION OR LEASE)

San Juan, Utah

T. 41 S., R. 23 E.

(COUNTY)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
5-26	5539	TD	Ran dual Lynes packers, washed formation with 250 gal. mud acid and reversed out. Set packers at 5516' and treated below with 2000 gal. XFW acid, and 2000 gal. Jel X-100 acid, flushed with 96 bbl. oil and 33 bbl. water maximum pressure 3900 psi, minimum pressure 2700 psi, average injection rate 2.9 bbl./min.
5-27			Shut well in 16 hours, bled down. Pulled tubing and packers. Ran 2 1/2" EVE tubing with bull plug to 5537', perforated nipple 5501-05, seating nipple 5500. Displaced water with oil. Well flowed 16 bbls. oil, 16 bbls. water and died.
5-28			Swabbed 41 bbls. water and 38 bbls. oil in 3 hours. Well began to flow. Flowed to pits for 2 hours, turned into test tanks.  INITIAL PRODUCTION Flowing, 282 B/D gross, 282 B/D clean cut 0%, 105 MCF/D, GOR 372, 48/64" bean, TP 120, CPO completed 5-28-58.

CONDITION AT BEGINNING OF PERIOD

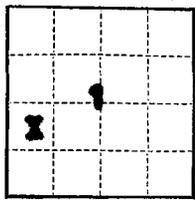
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12 1/4"	0	1454	8 5/8"	1450
7 7/8"	1454	5512	5 1/2"	5506
4 3/4"	5512	5539		
				
DRILL PIPE SIZES				

W. A. Kennedy

SIGNED

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo  
Tribal Lands  
Allottee 14-80-603-246  
Lease No. \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

71-4  
7-9

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
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	<b>Subsequent Report of Well Completion X</b>	

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

July 2, 19 58

Well No. 13-1 is located 1980 ft. from XIX line and 4620 ft. from [E] line of sec. 1  
SW 1 41S 23E S.L.B.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Rutherford San Juan Utah  
(Field) (County or Subdivision) (State or Territory)  
 Kelly bushing

The elevation of the ~~center~~  Kelly bushing above sea level is 4536.7 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)

- 4-28-58 Cemented 5-1/2", 14#, J-55 casing at 5506' with 200 sacks regular cement.
- 4-29-58 Drilled plugs, cement, shoe and cleaned out to 5539'.
- 5-26-58 Ran dual seal packers. Washed formation with 250 gal. mud acid. Set packers at 5516' and treated below with 2000 gal. regular and 2000 gal. retarded acid.
- 5-27-58 Pulled tubing and packer. Ran tubing with ball plug at 5537', perf. nipple 5501-05', seating nipple at 5500'. Well flowed and died.
- 5-28-58 Stubbed 41 bbls. water and 38 bbls. oil in 3 hrs. Well began to flow. **INITIAL PRODUCTION:** Flowing (8 hr. test) 282 B/D oil rate, no water, 105 MCF/D gas rate, GOR 370, 48/64" choke, TP 120, CP 0.

Completed 5-28-58

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

Company Shell Oil Company  
 Address 101 South Behrend Avenue  
Farmington, New Mexico  
 By W. O. Miller  
 Title Division Exploitation Engineer

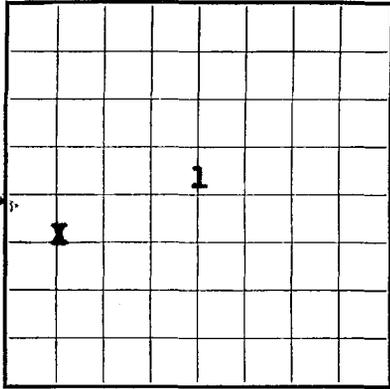
W  
W

Window Rock, Ariz.

U. S. LAND OFFICE 14-20-603-246

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

71-14  
9-1-58

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address 101 S. Behrend, Farmington, N. M.  
Lessor or Tract Tribal - North Desert Creek Field Ratherford State Utah  
Well No. 13-1 Sec. 1 T. 41S R. 23E Meridian S.L.B.M. County San Juan  
Location 1980 ft.  $\left\{ \begin{smallmatrix} N. \\ S. \end{smallmatrix} \right\}$  of S Line and 4620 ft.  $\left\{ \begin{smallmatrix} E. \\ W. \end{smallmatrix} \right\}$  of E Line of Section 1 Elevation 4587 KB  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.  
Original signed by B. W. SHEPARD  
Signed \_\_\_\_\_ Title Exploitation Engineer

Date July 9, 1958 \_\_\_\_\_

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

Commenced drilling April 6, 19 58 Finished drilling April 28, 19 58

OIL OR GAS SANDS OR ZONES

Open Hole (Denote gas by G)

No. 1, from 5506 to 5539 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
8-5/8"	28 & 32	8	-	1440	Baker	-	=	=	Surface
5-1/2"	14	8	-	5496	Baker	-	5506	5539	Production
									(Open Hole)

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	1450	500 Pozzo mix + 200	Displacement	-	-
5-1/2"	2506	200	"	-	-

PLUGS AND ADAPTERS

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

FOLD MARK

W  
FOLD MARK

8-5/8" # 1450	500 Pozzo mix + 200 Displacement	-	-
5-1/2" # 5506	200	-	-

**PLUGS AND ADAPTERS**

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

**SHOOTING RECORD**

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

**TOOLS USED**

Rotary tools were used from 0 feet to 5539 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

**DATES**

July 9, 19 58 Put to producing May 28, 19 58

The production for the first 24 hours was 282 barrels of fluid of which 100% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. Gravity, ~~Bé~~ 41° API (Approx.)

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
 Rock pressure, lbs. per sq. in. \_\_\_\_\_

**EMPLOYEES Great Western Drilling Company**

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
 \_\_\_\_\_, Driller \_\_\_\_\_, Driller

**FORMATION RECORD**

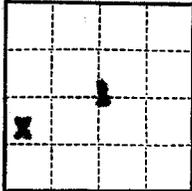
FROM—	TO—	TOTAL FEET	FORMATION
2200	2322	122	Shinarump
2322	2422	100	Moenkopi
2422	4476	2054	Cutler
4476	5495	1019	Upper Hermosa
5495	=	-	Paradox

W

*RFD*

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-20-403-246

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

April 3, 1960

**North Desert Creek**

Well No. 13-1 is located 1980 ft. from  $\left\{ \begin{matrix} N \\ S \end{matrix} \right\}$  line and 4620 ft. from  $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$  line of sec. 1

NW SW 1  
( $\frac{1}{4}$  Sec. and Sec. No.)

41 S  
(Twp.)

23 E  
(Range)

11M  
(Meridian)

Ratherford  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the ~~standpipe~~ <sup>Kelly Bushing</sup> above sea level is 4287 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)

**Status:** Total depth - 5539  
Casing - 5-1/2" @ 5606', 4-3/4" open hole 5506 to 5539'.  
Completed - 6-28-56, flowing 282 B/D oil from open hole interval 5506-5539'. Cumulative production to 3-1-60, 27,900 bbls.

**Proposed Work:**

1. Move in completion rig.
2. Set bridge plug at 5490'.
3. Perforate four 1/2" holes/ft. 5448-55, 5460-67, 5469-72.
4. Acidize perforations with 200 gal. mud acid, 1000 gal. regular and 3000 gal. retarded acid.
5. Return well to production.

*15M 2010*

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

Company Shell Oil Company

Address Post Office Box 158

Farmington, New Mexico

By \_\_\_\_\_

B. W. Shepard  
Title Exploitation Engineer

April 6, 1960

Shell Oil Company  
P. O. Box 158  
Farmington, New Mexico

Attention: B. W. Shepard, Exploitation Eng.

Gentlemen:

This is to acknowledge receipt of your Notice of Intention to Recomplete Well No. North Desert Creek 13-1, which is located 1980 feet from the south line and 4620 feet from the east line of Section 1, Township 41 South, Range 23 East, SLEM, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval is hereby granted for the recompletion of the above mentioned well.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT,  
EXECUTIVE SECRETARY

CBF:awg

cc: P. T. McGrath, Dist. Eng.  
U. S. Geological Survey  
Farmington, New Mexico

9

**Ratherford**  
 (FIELD)  
**San Juan, Utah**  
 (COUNTY)

**DRILLING REPORT**  
 FOR PERIOD ENDING  
 4-21-60

1  
 (SECTION OR LEASE)  
 T. 41 S. R. 23 E.  
 (TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
4-9	5539	TD	Pulled rods and tubing.
4-10			Ran retrievable bridge plug on tubing, set at 5488'. Ran gamma ray log and perforated four 1/2" holes/ft. 5448-55, 5460-67, 5469-72. Ran tubing with packer.
4-11			Washed formation with 200 gallons mud acid in four 15 minute stages. Reversed out. Acidized with 1000 gallons regular acid, 3000 gallons retarded, overflushed with 4000 gallons lease crude. Initial pressure 2000 psi (1 hour) or until 400 gallons acid were injected; pressure broke to 1500 psi and took remaining acid at 6.0 bbls./minute rate. Vacuum complete 2 minutes after job.
4-12			Swabbed approximately 200 barrels oil and acid water (flow line cuts 10 - 18% water). Well flowed intermittently on location but would not flow against separator pressure.
4-13			Pulled bridge plug. Ran tubing and rods.
4-14			Pumped 14 hours, 118 B/D rate, cut 27%, GOR 500.
4-15			Well pumping.
4-16			Pumped 207 B/D gross (15 hr. test), 133 bbls. oil, 36-1/2% cut, 84 MCF/D gas, GOR 630.
4-17			Pumped 170 B/D gross (24 hr. test), 109 bbls. oil, 36% cut, 74 MCF/D gas, 680 GOR.
4-18			Pumped 147 B/D gross, 71 B/D oil, 52% cut, 71 MCF/D gas, GOR 1000.
4-19			Not tested.
4-20			Pumped 210 B/D gross, 180 B/D oil, 14% cut, 60 MCF/D gas, GOR 333 (4 hr. test). Fluid level at surface.
4-21			Pumped 122 B/D gross, 99 bbls. oil (24 hr. test), 19% cut, 68 MCF/D gas, GOR 690.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	1454	8-5/8"	1450'
7-7/8"	1454	5512	5-1/2"	5506'
4-3/4"	5512	5539		
DRILL PIPE SIZES 4-1/2"				

B. W. Shepard

BWS  
 SIGNED

Ratherford

(FIELD)

San Juan, Utah

(COUNTY)

DRILLING REPORT

FOR PERIOD ENDING

5-6-60

(SECTION OR LEASE)

T. 41 S., R. 23 E.,

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
4-22	5539	TD	Pumped 122 B/D gross, 99 bbls. oil (not tested).
4-23			Pumped 104 B/D gross, 88 B/D oil, 15.4% cut, 68 MCF/D gas, GOR 775 (6 hr. test).
4-24			Pumped 110 B/D gross, 101 B/D oil, 8.2% cut, 76 MCF/D gas, GOR 750 (24 hr. test).
4-25			Pulled and replaced pump. On production at 3:00 p.m. 4-25-60.
4-26			Pumped 7 bbls. in 15 hours. Bumped pump down. Pumped OK.
4-27			Pumped 24 hours, 96 B/D gross, 86 B/D oil, 10% cut, 36 MCF/D gas, GOR 420 (24 hr. test).
4-28			Pumped 24 hours, 36 B/D gross, 36 B/D oil, 27 MCF/D gas, GOR 750 (16 hr. test).
4-29			Pumped 24 hours, 50 B/D gross, 49 B/D oil, 2% cut, 32 MCF/D gas, GOR 650 (24 hr. test).
4-30			Pumped 24 hours, bad test.
5-1			Pumped 24 hours, 176 B/D gross, 160 B/D oil, cut 9%, 78 MCF/D gas, GOR 485 (16 hr. test).
5-2			Pumped 150 B/D gross, 132 B/D oil, 12% cut, 78 MCF/D gas, GOR 590 (16 hr. test)
5-3			Pumped - not tested.
5-4			Pumped 107 B/D gross, 84 B/D oil, 16% cut, 107 MCF/D gas, GOR 1275 (18 hr. test).
5-5			Pumped 128 B/D gross, 100 B/D oil, 22% cut, 108 MCF/D gas, GOR 1030 (6 hr. test).
5-6			Pumped 24 hours, 166 B/D gross, 138 Bbls. oil, 17% cut, 128 MCF/D gas, GOR 928 (12 hr. test).

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	1454	8-5/8"	1450'
7-7/8"	1454	5512	5-1/2"	5506'
4-3/4"	5512	5539		
DRILL PIPE 4-1/2" SIZE				

B. W. Shepard

BWS  
 SIGNED

Ratherford  
 (FIELD)  
 San Juan, Utah  
 (COUNTY)

DRILLING REPORT  
 FOR PERIOD ENDING  
 5-18-60

1  
 (SECTION OR LEASE)  
 T. 41 S., R. 23 E.,  
 (TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
5-7	5539	ID	Pumped 24 hours, 141 B/D gross, 118 bbls. oil, 16% cut, 142 MCF/D gas, GOR 1180 (12 hr. test).
5-8			Pumped 21-1/2 hours, 140 bbls. gross, 118 bbls. oil, 16% cut, 108 MCF gas, GOR 920 (12 hr. test).
5-9			Shut in until 5-13 for field-wide pressure survey. Fluid level (operating) for 5-7-60 737' over pump shoe at 5500'.
5-10			Shut in.
5-11			Shut in.
5-12			Shut in.
5-13			Shut in.
5-14			Pumped 24 hours (not tested).
5-15			Pumped 24 hours, 76 B/D gross, 74 bbls. oil, 3% cut. (no gas test - 12 hrs. oil test).
5-16			Pumped 113 B/D gross, 102 B/D oil, 10% cut, 74 MCF/D gas, GOR 725.
5-17			Pumped 24 hours. Not tested.
5-18			<u>Representative Initial Production - Recompleted April 14, 1960</u> Pumping 110 B/D gross, 101 B/D oil, 8.2% cut, 76 MCF/D gas, GOR 750.

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	1454	8-5/8"	1450'
7-7/8"	1454	5512	5-1/2"	5506'
4-3/4"	5512	5539		
				
DRILL PIPE 4-1/2 SIZES				

B. W. Shepard

*BWS*  
 SIGNED

*R.S.J.*

		2	
X			

(SUBMIT IN TRIPLICATE)

Indian Agency Havajo

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-20-60-246

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.....	X
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.....		<u>Subsequent Report of Recompilation</u>	X

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

May 25, 1960

North Desert Creek

Well No. 13-1 is located 1950 ft. from N line and 1620 ft. from E line of sec. 1

NW SW 1 41N 23E SLR  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Katherineford San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

Kellyushing

The elevation of the ~~derrick floor~~ above sea level is 4567 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)

4-10-60 Perforated four 1/2" holes/st. 5440-55, 5460-67, 5409-72. Set Retrievable bridge plug at 5408'. Washed perforations with 200 gal. mud acid, injected 1000 gal. regular and 3000 gal. retarded acid.

4-11-60 Swabbed approx. 200 bbls. oil, pulled bridge plug.

4-12-60 Tested well.

to  
4-22-60

(over)

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

Company Shell Oil Company

Address Post Office Box 1200

Barrington, New Mexico

Original signed by  
B. W. SHEPARD

By B. W. Shepard

Title Exploitation Engineer

*gd*  
*SN*

4-23-60 REPRESENTATIVE RECOMPLETED INITIAL PRODUCTION

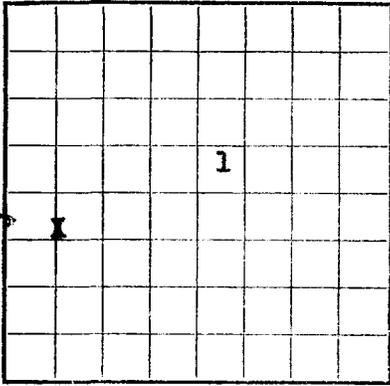
Pumping, 110 B/D gross, 103 B/D clean, 8.2% out, 76 MCF/D  
gas, GOR 750. Recompleted 4-14-60.

JUN 1 1960

23

Form 9-330

U. S. LAND OFFICE Tribal Lands  
SERIAL NUMBER 14-20-603-246  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address P. O. Box 1200, Farmington, N. M.  
Lessor or Tract Tribal-North Desert Creek Field Rutherford State Utah  
Well No. 13-1 Sec. 1 T. 41S R. 23E Meridian S.L.R.M. County San Juan  
Location 1980 ft.  $\left\{ \begin{matrix} N. \\ S. \end{matrix} \right\}$  of S. Line and 4620 ft.  $\left\{ \begin{matrix} E. \\ W. \end{matrix} \right\}$  of E. Line of 1 Elevation 4587 KB  
(Datum: 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 \_\_\_\_\_ Original Signed By \_\_\_\_\_ Original signed by W. H. MARSHALL B. W. SHEPARD

Date December 13, 1960 Title Exploitation Engineer

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

Commenced drilling April 6, 19 58 Finished drilling April 28, 19 58.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5506 to 5539 (open hole) No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 5448 <sup>GROSS</sup> to 5472 (perforations) No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>8-5/8</u>	<u>26.1</u>	<u>8</u>	<u>AMERICAN</u>	<u>5506</u>	<u>DISPLACEMENT</u>	<u>5506</u>	<u>5506</u>	<u>5506</u>	<u>DISPLACEMENT</u>
<u>5-7/8</u>	<u>20.0</u>	<u>8</u>	<u>AMERICAN</u>	<u>5506</u>	<u>DISPLACEMENT</u>	<u>5506</u>	<u>5506</u>	<u>5506</u>	<u>DISPLACEMENT</u>

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>1450</u>	<u>500 Prosser mix + 200</u>	<u>Displacement</u>		
<u>5-7/8</u>	<u>5506</u>	<u>200</u>	<u>R</u>		

PLUGS AND ADAPTERS

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

SHOOTING RECORD

FOLD MARK

FOLD MARK

8-5/8 5-1/2	1450 5500	500 Prosser mix + 200 200	Displacement #	
----------------	--------------	------------------------------	-------------------	--

**PLUGS AND ADAPTERS**

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

**SHOOTING RECORD**

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

**TOOLS USED**

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

**DATES**

December 13, 1960  
 The <sup>representative</sup> production for the first 24 hours was 110 barrels of fluid of which 91.8% was oil; \_\_\_\_\_% emulsion; 8.2% water; and \_\_\_\_\_% sediment. Gravity, <sup>98.6</sup>/<sub>xxx</sub> ~~41.0~~ API  
 If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
 Rock pressure, lbs. per sq. in. \_\_\_\_\_

**EMPLOYEES**

\_\_\_\_\_, Driller \_\_\_\_\_ Great Western Drilling Co., Driller  
 \_\_\_\_\_, Driller \_\_\_\_\_, Driller

**FORMATION RECORD**

FROM—	TO—	TOTAL FEET	FORMATION
2200	2322	122	Shinarump
2322	2422	100	Koenkopi
2422	4476	2054	Cutler
4476	5495	1019	Hermosa
5495	-	-	Paradox

DEC 17 1960

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse 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.

14-20-603-246

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

SW-I-4192

8. FARM OR LEASE NAME

Rutherford Unit

9. WELL NO.

1-13

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

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

Sec 1 - 415-23E SLEB

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

Box 2920 Casper, Wyoming 82601

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

1980' N and 4620' W of SE Cor. of Sec. 1

14. PERMIT NO.

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

4586.7 RKB

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

REWORK OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(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.)\*

Acidize with 1000 gals. Dowell 15% DAD acid down annulus

Present Production: 12 BOPD, 0 Wtr. - Pumping.

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

SIGNED

*F. C. Morgan*

TITLE

Production Superintendent

DATE

8-26-71

(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 reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>U-20-603-246</b>
2. NAME OF OPERATOR <b>Phillips Petroleum Company</b> <i>Shull</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo</b>
3. ADDRESS OF OPERATOR <b>Box 2920 Casper, Wyoming 82601</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>1980' N and 4620' W of SE Cor of Sec 1</b>		8. FARM OR LEASE NAME <b>Rutherford Unit</b>
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4586.7 RKB</b>	9. WELL NO. <b>1-13</b>
		10. FIELD AND POOL, OR WILDCAT <b>Greater Aneth</b>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec 1-T41S-R23E S1E1M</b>
		12. COUNTY OR PARISH 13. STATE <b>San Juan 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"/>	<del>SHOOT</del> OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(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.)\*

**8/25/71**

**Acidize w/1000 gals Dowell 15% DAD acid down annulus.**

**Previous Production 12 BOPD, 14 MCFGPD, 0 Wtr. Pumping**  
**Present Production - 8/30/71 17 BOPD, 17 MCFGPD, 0 Wtr. Pumping**

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

SIGNED \_\_\_\_\_ TITLE **Production Superintendent** DATE **September 14, 1971**

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

- 3 - USGS - Farmington, N. M.
- 2 - Utah O & G CC - Salt Lake City, Utah
- 1 - Superior Oil Co. - Cortez Colo.

\*See Instructions on Reverse Side

1 - File

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING  
ROOM 4241 STATE OFFICE BUILDING  
SALT LAKE CITY, UTAH 84114  
(801) 533-5771  
(RULE 1-5 & RULE 1-4)

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

IN THE MATTER OF THE APPLICATION OF  
Phillips Petroleum Company  
ADDRESS P. O. Box 2920  
Casper, WY ZIP 82602  
INDIVIDUAL  PARTNERSHIP  CORPORATION   
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR  
INJECT FLUID INTO THE 1 W13 WELL  
SEC. 1 TWP. 415 RANGE 23 E  
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 1-4)	<input type="checkbox"/>

*Refer to unit file  
for attachments*

APPLICATION

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

1. That Rule 1-5 (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>1 W13</u>	Field <u>Greater Aneth</u>	County <u>San Juan</u>
Location of Enhanced Recovery Injection or Disposal Well <u>1 W13</u> Sec. <u>1</u> Twp. <u>415</u> Rge. <u>23</u> E			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Test Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Date _____	
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 Oil & Gas	
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 (5506) San Juan River (Surface)</u>		
Geologic Name of Injection Zone <u>Desert Creek Zone I</u>	Depth of Injection Interval <u>5506 to 5539</u>		
a. Top of the Perforated Interval: <u>5506'</u>	b. Base of Fresh Water: <u>1550'</u>	c. Intervening Thickness (a minus b) <u>3956'</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> See previously submitted material, attachment #4			
Lithology of Intervening Zones <u>See previously submitted material, attachment #1</u>			
Injection Rates and Pressures Maximum <u>500</u> B/D <u>Not to exceed approximately 3000</u> 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>Mobil Oil Corp. Attn; Joint Interest Advisor P. O. Box 5444 Denver, CO 80217</u>			
<u>Texaco Inc., P. O. Box 2100, Denver, CO 80201</u>			

State of Wyoming ) Phillips Petroleum Company  
County of Natrona ) Applicant  
D. C. Gill

Before me, the undersigned authority, on this day personally appeared D. C. Gill known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on 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 21<sup>st</sup> day of February, 19 86

Donald L. Hudson

My commission expires November 3, 1986 Notary Public in and for Natrona Co., Wyoming

INSTRUCTIONS

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	28#	8 5/8"	1450	700 SX	Surface Returns
Intermediate	none				
Production	14#	5 1/2"	5506	200 SX	4872 calculated
Tubing	2-3/8 or 2-7/8		Name - Type - Depth of Tubing Packer (5406) Baker type AB Tension Pkr or Similar		
Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval	Depth - Base of Inj. Interval		
5539	Desert Creek Zone 1	5506	5539		

FIELD: GREATER ANETH

RESERVOIR: Desert Creek Zone I

W I COMPLETION: Injection

PRESENT STATUS: Conversion

RKB 4587

GL 4577.3

SURFACE CASING: 8 5/8" 28# +  
32# J-55

Well # 1-W13

PRODUCTION CASING: 5 1/2" 14#  
J-55

1450'

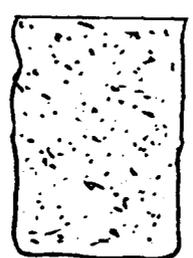
PERFORATIONS: \_\_\_\_\_  
open hole 5506 - 5539

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

PACKER: Baker model AB  
Tension Type pkr or similar  
Set approx 5406

5506'

PBTD: 5539'  
OTD: 5539'



Phillips Petroleum Company

6. UNIT OPERATOR (Well operator)

Phillips Petroleum Company is hereby designated as Unit Operator and by signature hereto as Unit Operator agrees and consents to accept the duties of Unit Operator for the development and production of Unitized Substances as herein provided.

Taken from the Rutherford Unit Agreement.  
Operator Name Change.



# Commencement

## MONTHLY REPORT OF ENHANCED RECOVERY PROJECT - PART 2

Page 1

### MONTHLY MONITORING OF INJECTION WELLS

<u>Well Name</u>	<u>Inj. Press.</u>	<u>Inj. Rate</u>	<u>Annulus Press.</u>	<u>Monthly Inj. Vol.</u>
Ratherford Unit. Well #				
E14W21 ✓	SI	SI		SI
E14W23 ✓	SI	SI		SI
✓ 1W13-43-037-15838 <sup>3-13-81</sup>	1775	279		5300 ✓
1W24 43-037-15839	2175	335		10380
1W44 43-037-15840	0	214		16634
2W44 43-037-16386	2250	316		9793
3W42 43-037-16388	SI	SI		SI
5W43 43-037-16392	1420	26		805
6W14 43-037-15981	2175	295		9142
6W23 43-037-16393	SI	SI		SI
7W12 43-037-15985	2075	351		10876
7W14 43-037-15984	2100	123		3812
7W21 43-037-16394	2000	7		217
✓ 7W23 43-037-15987	0	204		1020
7W32 43-037-15988	2000	96		2976
7W34 43-037-15989	2000	68		2106
7W41 43-037-15990	325	265		8213
7W43 43-037-16395	1875	1		31
8W14 43-037-15992	1980	1		31
8W43 43-037-16396	1120	329		10195
9W21 43-037-16397	1100	233		7222

# Commencement

## MONTHLY REPORT OF ENHANCED RECOVERY PROJECT - PART 2

Page 1

### MONTHLY MONITORING OF INJECTION WELLS

<u>Well Name</u>	<u>Inj. Press.</u>	<u>Inj. Rate</u>	<u>Annulus Press.</u>	<u>Monthly Inj. Vol.</u>
Ratherford Unit, Well #				
E14W21 ✓	SI	SI		SI
E14W23 ✓	SI	SI		SI
31515 ✓ 1W13 43-037-15838	1775	279		5300
1W24 43-037-15839	2175	335		10380
1W44 43-037-15840	0	214		16634
2W44 43-037-16386	2250	316		9793
3W42 43-037-16388	SI	SI		SI
5W43 43-037-16392	1420	26		805
6W14 43-037-15984	2175	295		9142
6W23 43-037-16388	SI	SI		SI
7W12 43-037-15985	2075	351		10876
7W14 43-037-15984	2100	123		3812
7W21 43-037-16394	2000	7		217
✓ 7W23 43-037-15987	0	204		1020
7W32 43-037-15988	2000	96		2976
7W34 43-037-15989	2000	68		2106
7W41 43-037-15990	325	265		8213
7W43 43-037-16395	1875	1		31
8W14 43-037-15992	1980	1		31
8W43 43-037-16394	1120	329		10195
9W21 43-037-16397	1100	233		7222



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

March 13, 1986

San Juan Record  
Legal Advertizing  
Monticello, Utah 84535

Gentlemen:

RE: UIC-079

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 20th day of March. In the event that said notice cannot be published by this date, please notify this office immediately by calling 538-5340 Ex. 5296.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Very truly yours,  
DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script, appearing to read "Marjorie L. Anderson".

MARJORIE L. ANDERSON  
Administrative Assistant

mfp  
0045A

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

---oo0oo---

IN THE MATTER OF THE APPLICATION : CAUSE NO. UIC-079  
OF PHILLIPS PETROLEUM COMPANY, :  
FOR ADMINISTRATIVE APPROVAL TO :  
INJECT FLUID INTO CONVERTED :  
ENHANCED RECOVERY INJECTION WELLS :  
LOCATED IN SECTIONS 6, 7, & 8, :  
TOWNSHIP 41 SOUTH, RANGE 24 EAST; :  
AND SECTION 1, TOWNSHIP 41 SOUTH, :  
RANGE 23 EAST, S.L.M., SAN JUAN :  
COUNTY, UTAH :

---oo0oo---

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED  
MATTER.

Notice is hereby given that Phillips Petroleum Company, P.O. Box  
2920, Casper, Wyoming, 82602 has requested administrative approval  
from the Division to convert the following listed wells to enhanced  
recovery water injection wells:

RATHERFORD UNIT

<u>WELL</u>	<u>LOCATION</u>	<u>WELL</u>	<u>LOCATION</u>
#1-44	Sec. 1, T41S, R23E	#7-32	Sec. 7, T41S, R24E
#1-24	Sec. 1, T41S, R23E	#7-23	Sec. 7, T41S, R24E
#1-13	Sec. 1, T41S, R23E	#7-14	Sec. 7, T41S, R24E
#6-14	Sec. 6, T41S, R24E	#7-12	Sec. 7, T41S, R24E
#7-34	Sec. 7, T41S, R24E	#8-14	Sec. 8, T41S, R24E

Injection Interval: Desert Creek 5,479' to 5,929'  
Maximum Estimated Surface Pressure: 3000 psig  
Maximum Estimated Water Injection Rate: 500 BWPD

Approval of this application will be granted unless objections are  
filed with the Division of Oil, Gas and Mining within fifteen days  
after publication of this Notice. Objections, if any, should be  
mailed to the Division of Oil, Gas and Mining, Attention: UIC Program  
Manager, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake  
City, Utah 84180-1203.

DATED this 13th day of March, 1986.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

  
MARJORIE L. ANDERSON  
Administrative Assistant



STATE OF UTAH  
 NATURAL RESOURCES  
 Oil, Gas & Mining

Norman H. Bangerter, Governor  
 Dee C. Hansen, Executive Director  
 Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 8, 1986

Phillips Petroleum Company  
 P.O. Box 2920  
 Casper, Wyoming 82602

Gentlemen:

RE: Injection Well Approval - Cause No. UIC-079

Administrative approval is hereby granted to convert the following wells to Class II enhanced recovery water injection wells:

RATHERFORD UNIT - San Juan County, Utah

<u>WELL</u>	<u>LOCATION</u>	<u>WELL</u>	<u>LOCATION</u>
#1-44	Sec. 1, T41S, R23E	#7-32	Sec. 7, T41S, R24E
#1-24	Sec. 1, T41S, R23E	#7-23	Sec. 7, T41S, R24E
#1-13	Sec. 1, T41S, R23E	#7-14	Sec. 7, T41S, R24E
#6-14	Sec. 6, T41S, R24E	#7-12	Sec. 7, T41S, R24E
#7-34	Sec. 7, T41S, R24E	#8-14	Sec. 8, T41S, R24E

This approval is conditional upon full compliance with the UIC rules and regulations adopted by the Board of Oil, Gas and Mining, and construction and operation of the well as outlined in the application submitted.

If you have any questions concerning this matter, please do not hesitate to call or write.

Best regards,

Dianne R. Nielson  
 Director

mfp  
 7627U

# Affidavit of Publication

STATE OF UTAH,

SS.

County of Salt Lake

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH CAUSE NO. UIC-079

IN THE MATTER OF THE APPLICATION OF PHILLIPS PETROLEUM COMPANY FOR ADMINISTRATIVE APPROVAL TO INJECT FLUID INTO CONVERTED ENHANCED RECOVERY INJECTION WELLS LOCATED IN SECTIONS 4, 7, & 8 TOWNSHIP 41 SOUTH, RANGE 24 EAST, AND SECTION 1 TOWNSHIP 41 SOUTH, RANGE 23 EAST, S.L.M., SAN JUAN COUNTY, UTAH.

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Phillips Petroleum Company, P.O. Box 2920, Casper, Wyoming, 82602 has requested administrative approval from the Division to convert the following listed wells to enhanced recovery water injection wells:

**RATHERFORD UNIT**

Well	Location
#1-04	Sec. 1, T41S, R24E
#1-26	Sec. 1, S41S, R23E
#1-13	Sec. 1, T41S, R24E
#6-14	Sec. 4, T41S, R24E
#7-34	Sec. 7, T41S, R24E
#7-32	Sec. 7, T41S, R24E
#7-23	Sec. 7, T41S, R24E
#7-14	Sec. 7, T41S, R24E
#7-12	Sec. 7, T41S, R24E
#8-14	Sec. 8, T41S, R24E

Injection Interval: Desert Creek 5,479' to 5,929'

Maximum Estimated Surface Pressure: 3000 psig  
Maximum Estimated Water Injection Rate: 500 BWPD

Approval of this application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections, if any, should be mailed to the Division of Oil, Gas and Mining, Attention: UIC Program Manager, 335 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84100-1203.

DATED this 13th day of March, 1986.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
MARJORIE L. ANDERSON  
Administrative Assistant  
M-33

Cheryl Gierloff

Being first duly sworn, deposes and says that he/she is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah, and of the DESERET NEWS, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

That the legal notice of which a copy is attached hereto

Cause No. UIC-079 Application of Phillips

Petroleum Company

was published in

March 2<sup>nd</sup>

*10 copies*

*Cheryl Gierloff*  
Advertising Clerk

Subscribed and sworn to before me this ..... day of

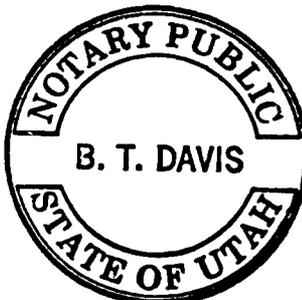
March ..... A.D. 1986

*B. T. Davis*

Notary Public

My Commission Expires

March 1, 1988



Publication was sent to the following:

Navajo Tribe  
PO Box 146  
Window Rock, Arizona 86515

Mobil Oil Company  
Attn: Joint Interest Advisor  
PO Box 5444  
Denver, Colorado 80217

Texaco, Inc.  
PO Box 2100  
Denver, Colorado 80201

Phillips Petroleum Company  
PO Box 2920  
Casper Wyoming 82602

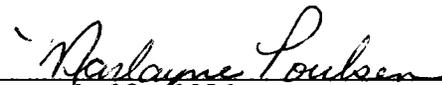
Utah State Department of Health  
Water Pollution Control  
Attn: Loren Morton  
4241 State Office Building  
Salt Lake City, Utah 84114

U.S. Environmental Protection Agency  
Suite 1300  
Attn: Mike Strieby  
999 18th Street  
Denver, Colorado 80202-2413

Bureau of Land Management  
consolidated Financial Center  
324 South State Street  
Salt Lake City, Utah 84111-2303

Newspaper Agency  
Legal Advertizing  
Mezzanine Floor  
143 South Main  
Salt Lake City, Utah 84111

San Juan Record  
Legal Advertizing  
Monticello, Utah 84535

  
March 13, 1986

# Mobil Oil Corporation

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

May 14, 1986

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

Attn: R. J. Firth  
Associate Director

RECEIVED  
MAY 16 1986

DIVISION OF  
OIL, GAS & MINING

## SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

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

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

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

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

Very truly yours,



R. D. Baker  
Environmental Regulatory Manager

CNE/rd  
CNE8661

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions on reverse 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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-246A <i>last 12/1/86 mp</i>
2. NAME OF OPERATOR Phillips Petroleum Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo 122486
3. ADDRESS OF OPERATOR P. O. Box 2920, Casper, WY 82602		7. UNIT ASSIGNMENT NAME SW-I-4192
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1980' FSL, 660' FWL (NW SW)		8. FARM OR LEASE NAME Ratherford Unit
14. PERMIT NO. 43-037-15838	15. ELEVATIONS (Show whether SP, RT, CR, etc.) 4587' RKB	9. WELL NO. 1-13
		10. FIELD AND POOL, OR WILDCAT Greater Aneth
		11. SEC., T., R., N., OR B.L.K. AND SURVEY OR AREA Sec. 1-T41S-R23E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

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.)\*

It is proposed to convert Ratherford Unit #1-13, an Ismay (cased hole completion) and Zone I (open hole completion), to a Zone I (open hole completion) water injection well. After isolating the Ismay, Zone I will be acidized with approximately 3000 gallons of 28% HCl Acid and the well will be placed on injection.

A 10' x 8' x 6' fenced pit will be constructed on location in a previously disturbed area. Upon completion of the workover, the pit will be dried and recovered.

- 5-BLM, Farmington, NM
- 2-Utah O&G CC, Salt Lake City
- 1-P. J. Adamson
- 1-M. Williams, 302 TRW
- 1-J. R. Reno
- 1-B. J. Murphy
- 1-File RC

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 12/1/86  
BY: [Signature]  
*See approval letter 4/4/86*

NOV 21 1986

DIVISION OF  
OIL, GAS & MINING

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

SIGNED

[Signature]  
D. C. Gill

TITLE Area Manager

DATE November 17, 1986

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

# AFFIDAVIT OF PUBLICATION

## Public notice

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

IN THE MATTER OF THE APPLICATION OF PHILLIPS PETROLEUM COMPANY, FOR ADMINISTRATIVE APPROVAL TO INJECT FLUID INTO CONVERTED ENHANCED RECOVERY INJECTION WELLS LOCATED IN SECTIONS 6, 7, & 8, TOWNSHIP 41 SOUTH, RANGE 24 EAST; AND SECTION 1, TOWNSHIP 41 SOUTH, RANGE 23 EAST, S.L.M., SAN JUAN COUNTY, UTAH

CAUSE NO. UIC-079

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Phillips Petroleum Company, P.O. Box 2920, Casper, Wyoming, 82602 has requested administrative approval from the Division to convert the following listed wells to enhanced recovery water injection wells:

### RATHERFORD UNIT

- #1-44 Sec. 1, T41S, R23E
- #1-24 Sec. 1, T41S, R23E
- X #1-13 Sec. 1, T41S, R23E
- #6-14 Sec. 6, T41S, R24E
- #7-34 Sec. 7, T41S, R24E
- #7-32 Sec. 7, T41S, R24E
- #7-23 Sec. 7, T41S, R24E
- #7-14 Sec. 7, T41S, R24E
- #7-12 Sec. 7, T41S, R24E
- #8-14 Sec. 8, T41S, R24E

Injection Interval: Desert Creek 5,479' to 5,929'

Maximum Estimated Surface Pressure: 3000 psig

Maximum Estimated Water Injection Rate: 500 BWPD

Approval of this application will be granted unless objections are filed with the Division of Oil, Gas and Mining within 15 days after publication of this Notice. Objections, if any, should be mailed to the Division of Oil, Gas and Mining Attention: UIC Program Manager, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84108-1203.

DATED this 13th day of March, 1986.  
STATE OF UTAH

STATE OF UTAH  
DIVISION OF OIL,  
GAS AND MINING  
MARJORIE L. ANDERSON  
Administrative Assistant

Published in The San Juan Record  
March 19, 1986.

I, Joyce Martin, being duly sworn,  
depose and say that I am the publisher of the San  
Juan Record, a weekly newspaper of general circulation  
published at Monticello, Utah, every Wednesday; that  
notice of request for administrative approval to  
inject fluid into converted wells, Cause # UIC-079  
a copy of which is hereunto attached, was published in  
the regular and entire issue of each number of said  
newspaper for a period of one issues, the first  
publication having been made on March 19, 1986.  
and the last publication having been made on \_\_\_\_\_

Signature Joyce A Martin  
Publisher

Subscribed and sworn to before me this 19th  
day of March, A.D. 1986.

Ingrid K Adams  
Notary Public  
Residing at Monticello, Utah

My commission expires December 2, 1987

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

**SUBMIT IN TRIPLICATE**  
(Other instructions  
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.)

<b>1. OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> Water Injector		<b>3. LEASE DESIGNATION AND SERIAL NO.</b> 14-20-603-246A	
<b>2. NAME OF OPERATOR</b> Phillips Petroleum Company		<b>4. IF INDIAN, ALLOTTEE OR TRUST LAND</b>  NAVAJO	
<b>3. ADDRESS OF OPERATOR</b> P.O. Box 2920, Casper, WY 82602		<b>7. WELL IDENTIFICATION MARK</b> SW-I-4192	
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1980' FSL, 660' FWL (NW SW) API# 43-037-15838		<b>8. NAME OF LEASE NAME</b> Ratherford Unit	
<b>14. PERMIT NO.</b>	<b>15. ELEVATIONS</b> (Show whether SP, ST, CR, etc.)  4587' RKB	<b>9. WELL NO.</b> 1W13	
		<b>10. FIELD AND POOL, OR WILDCAT</b> Greater Aneth	
		<b>11. SEC., T., R., S., OR NE. AND SURVEY OR AREA</b> Sec. 1-T41S-R23E	
		<b>12. COUNTY OR PARISH</b> San Juan	<b>13. STATE</b> Utah

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

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
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 ACIDISE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDISING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Converted to Water Injection</u> <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.)\*

Feb. 26, 1987 through Mar. 12, 1987

Sqzd Ismay w/100 sx Class B Cmt, lost press. Re-sqzd w/50 sx Class "B" Cmt. Press to 1000 psi, OK. Drld out to PBD 5539'. Perforated 5524-36', 4 spf. Acidized open hole 5506-5539' w/300 gal 28% HCL. GIH w/2-7/8" Duoline Tbg and Wtr Inj. Pkr. Set Pkr at 5485'. RR 3/12/87. HU to Injection 3/13/87.

Production Before-	15 BOPD	2 BWPD
Injection After-	297 BWPD	at 1775 psi

**RECEIVED**

AUG 4 1987

DIVISION OF OIL  
GAS & MINING

- |                        |                |
|------------------------|----------------|
| 4-BLM, Farmington, NM  | 1-Chieftain    |
| 2-Utah O&G CC, SLC, UT | 1-Mobil Oil    |
| 1-M. Williams, B'Ville | 1-Texaco, Inc. |
| 1-J. Landrum, Denver   | 1-Chevron USA  |
| 1-J. Reno, Cortez      | 1-File RC      |

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

SIGNED D. C. Gill TITLE Area Manager DATE 7/27/87

(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**

SUBMIT IN TRIPPLICATE  
(Other instructions on reverse 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.)

<b>1. OIL WELL</b> <input type="checkbox"/> <b>CAS WELL</b> <input type="checkbox"/> <b>OTHER WATER INJECTION &amp; WATER SUPPLY WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NO.</b>  <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b>  SW-I-4192
<b>2. NAME OF OPERATOR</b> PHILLIPS PETROLEUM COMPANY		<b>7. UNIT AGREEMENT NAME</b> RATHERFORD UNIT #7960041920
<b>3. ADDRESS OF OPERATOR</b> 152 N. DURBIN, 2ND FLOOR, CASPER, WYOMING-82601		<b>8. FARM OR LEASE NAME</b>  <b>9. WELL NO.</b> VARIOUS (see attached)
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  SEE ATTACHED		<b>10. FIELD AND POOL, OR WILDCAT</b> GREATER ANETH
<b>14. PERMIT NO.</b>		<b>11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA</b> Sections 1 thru 30 T41S - R23E & 24E
<b>15. ELEVATIONS</b> (Show whether DV, RT, OR, etc.) OIL, GAS & MINING		<b>12. COUNTY OR PARISH</b> <b>13. STATE</b> San Juan Utah

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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 PLANS <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  
 S. H. Oden

(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

# DOWN HOLE SCHEMATIC

Date: 8/6/87

RATHERFORD Unit # 1W13

Location NW SW Sec. 1

RKB Elev. 4587'

T415-R23E

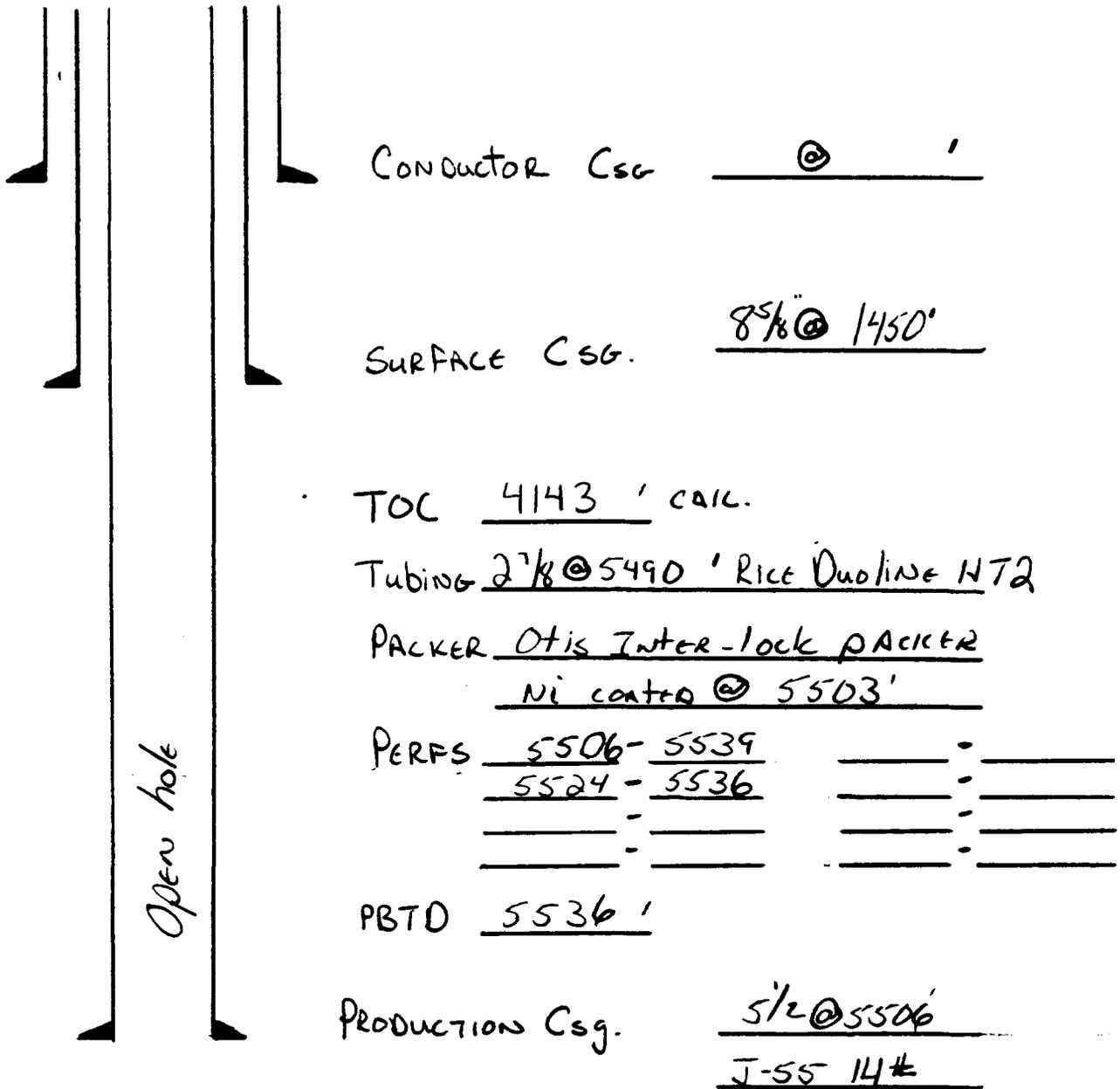
GL Elev. 4577'

Well Drd 7/9/58

RKB Above GL' 10'

Well converted to injector 3/12/87

42 381 50 SHEETS 5 SQUARE  
42 382 100 SHEETS 5 SQUARE  
42 383 200 SHEETS 5 SQUARE



All Perfs Zone I unless noted

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

SUBMIT IN TRIPLICATE

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1. Type of Well  
 Oil Well    Gas Well    Other   Water 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)  
 NW/SW 1980' FSL & 660' FWL  
 Section 1, T41S, R23E

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

6. If Indian, Allottee or Tribe Name  
 Navajo Tribal

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

8. Well Name and No.  
 Rutherford Unit #1W-13

9. API Well No.  
 43-037-15838

10. Field and Pool, or Exploratory Area  
 Greater Aneth

11. County or Parish, State  
 San Juan, Utah

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 checked="" type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

8-23-92 thru 9-2-92  
 MIRU Montezuma Well Service Rig #31. ND WH and NU BOP. POOH w/injection tbg. Drilled out iron sulfide fill to 5536' and rev. circ. hole clean. Ran pkr & RBP and determined csg good above 5410'. Ran CBL/GR logs from 5450'-4400', TOC 4480'. Ken Lingo witnessed attempted squeeze of old Ismay perfs. Howco mixed 50 sx C1 "G" cmt w/75% Halad 322 @ 15.8 ppg. Spotted cmt to EOT w/20 BFW. Began squeeze by pumping 8 bbl cmt into perfs w/tbg press to 150 psi-10 minutes, pmpd 1/2 bbl w/tbg press to 240 psi-10 minutes, pmpd 1/2 bbl more w/tbg press to 250 psi-10 minutes, pmpd 3/4 bbl w/260 psi tbg press. Held 30 min. Rev circ. cmt out. Reset pkr & pmpd 7 bbls down tbg. Resqueezed w/75 Sx C1 G cmt @ 15.8 ppg. Pmpd cmt to EOT w/15 BFW. Stung into CR cmt on perfs @ 1/2 BPM & 0 psi. 7.3 bbl into perfs @ 1/2 bpm W/press to 500 psi. Press up to 800 psi 2/8.5 bbl cmt. Held 30 min. Stung out of CR. Rev. out cmt. WOC. Tested squeez to 1000 psi - okay. TIH w/5-1/2" Otis Interloc Pkr and production tbg (2-78") w/pkr set @ 5430'. Test pkr down annulus to 1000 psi - okay. Circ. pkr fluid. ND BOP's and NU WH. RU & perform MIT test to 1000 psi. Test witnessed by Ken Lingo W/EPA. Returned well to injection. RD and released rig.

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

Signed *L. F. Robinson* Title Sr. Drlg. & Prod. Engr. Date 9-11-92  
 L. F. 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

3. Lease Designation and Serial No.

14-20-603-246A

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

Ratherford Unit

SW-I-4192

8. Well Name and No.

Ratherford Unit #1W-13

9. API Well No.

47-037-15838

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)

NW/SW 1980' FSL & 660' FWL  
Section 1, T41S, R23E.

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

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

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form 1)

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.)

9-21-92 thru 9-29-92

Cement communicated behind pipe to the open hole section while squeezing the old Ismay perms in August. MIRU DD WS Unit. NU BOP & tested to 1000 psi. POOH w/tbg & pkr. Drilled out cement and under-reamed open hole section from 5506'-5530'. Circ. annulus w/120 BFW w/30 Gal Welchem WA-840. Ran inj tbg assembly. ND BOP and returned well to injection on 9-29-92. (Performed MIT)

Injection Rate Before 0 BWPD  
Injection Rate After 47 BWPD @ 2675 psi

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DEC 14 1992

DIVISION OF  
OIL, GAS & MINING

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

Signed [Signature]  
Robinson

Title Sr. Drlg. & Prod. Engr.

Date 12-4-92

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

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

\*See Instruction on Reverse Side

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

ACCOUNT NUMBER: N0772

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

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AUG 16 1993

REPORT PERIOD (MONTH/YEAR):

6 / 93

DIVISION OF  
OIL, GAS & MINING

AMENDED REPORT  (Highlight Changes)

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

COMMENTS: Effective July 1, 1993, Phillips Petroleum Company has sold its interest in the Rutherford 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:

*Sheffield*  
~~BRIAN BERRY~~  
~~M E P N A MOBIL~~  
~~POB 249031 1807A RENTWY~~ P.O. DRAWER G  
DALLAS TX 75221-9031 CORTEZ, Co. 81321

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 7 / 93

AMENDED REPORT  (Highlight Changes)

*\*931006 updated. Jc*

ENTITY NUMBER	PRODUCT	GRAVITY BTU	BEGINNING INVENTORY	VOLUME PRODUCED	DISPOSITIONS				ENDING INVENTORY
					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								
TOTALS					249710	243925	5885		

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SEP 13 1993

DIVISION OF  
OIL, GAS & MINING

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

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

Name and Signature: *Lowell B Sheffield*

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

WELL #	API#	LEASE #	SEC., T, R	LOCATION OF WELL
✓ 01W-13	43-037-15838	14-20-603-246A	SEC. 1, T41S, R23E	NW/SW 1980 FSL; 660 FWL
✓ 01-14	43-037-31162	14-20-603-246A	SEC. 1, T41S, R23E	SW/SW 660 FSL; 660 FWL
✓ 01W-24	43-037-15939	14-20-603-246	SEC. 1, T41S, R23E	SE/SW 651 FSL; 3300 FEL
✓ 01-34	43-037-16385	14-20-603-246A	SEC. 1, T41S, R23E	SW/SE 4147 FNL; 1980 FEL
✓ 01W-44	43-037-15840	14-20-603-246A	SEC. 1, T41S, R23E	660 FSL; 661 FEL
✓ 02W-44	43-037-16386	14-20-603-246A	SEC. 2, T41S, R23E	SE/SE 810 FNL; 5110' FWL
✓ 03-14	43-037-15124	14-20-603-5445	SEC. 3, T41S, R24E	660 FSL; 660 FEL
✓ 03-12	43-037-15620	14-20-603-6506	SEC. 3, T41S, R24E	SW/NW 2140 FNL; 660 FWL
✓ 03W-42	43-037-16388	14-20-603-6505	SEC. 3, T41S, R24E	SW/NE 1980 FNL; 660 FEL
✓ 03-44	43-037-15031	14-20-603-6504	SEC. 3, T41S, R24E	520 FSL; 820 FEL
✓ 04-14	43-037-16163	14-20-603-5446	SEC. 4, T41S, R24E	500 FSL; 600 FEL
✓ 04-34	43-037-16164	14-20-603-4035	SEC. 4, T41S, R24E	660 FSL; 1980 FEL
✓ 05-34	43-037-15983	14-20-603-368	SEC. 5, T41S, R24E	SW/SE 612 FSL; 1990 FEL
✓ 05W-43	43-037-16392	14-20-603-368	SEC. 5, T41S, R24E	1400 FSL; 990 FEL
✓ 06W-14	43-037-15984	14-20-603-368	SEC. 6, T41S, R24E	SW/SW 660; FSL; 660 FWL
✓ 06W-23	43-037-16393	14-20-603-368	SEC. 6, T41S, R24E	1830 FSL; 1895 FWL
✓ 07-11	43-037-31163	14-20-603-368	SEC. 7, T41S, R24E	NW/NW 660 FNL; 710 FWL
✓ 07W-12	43-037-15985	14-20-603-368	SEC. 7, T41S, R24E	SW/NW 2140 FNL; 585 FWL
✓ 07-13	43-037-31164	14-20-603-368	SEC. 7, T41S, R24E	NW/SW 2110 FSL; 740 FWL
✓ 07W-14	43-037-15986	14-20-603-368	SEC. 7, T41S, R24E	SW/SW 1065 FSL; 660 FWL
✓ 07W-21	43-037-16394	14-20-603-368	SEC. 7, T41S, R24E	710 FNL; 1820 FWL
✓ 07-22	43-037-31165	14-20-603-368	SEC. 7, T41S, R24E	SE/NW 1980 FNL; 1980 FWL
✓ 07W-23	43-037-15987	14-20-603-368	SEC. 7, T41S, R24E	NE/SW 1980 FSL 1980 FWL
✓ 07-24	43-037-31166	14-20-603-368	SEC. 7, T41S, R24E	SE/SW 880 FSL; 2414 FWL
✓ 07W-32	43-037-15988	14-20-603-368	SEC. 7, T41S, R23E	SW/NE 1980 FNL; 1980 FEL
✓ 07-33	43-037-31167	14-20-603-368	SEC. 7, T41S, R24E	NW/SE 2105 FSL; 1876 FEL
✓ 07W-34	43-037-15989	14-20-603-368	SEC. 7, T41S, R24E	710 FSL; 2003 FEL
✓ 07W-41	43-037-15990	14-20-603-368	SEC. 7, T41S, R24E	NE/NE 585 FNL; 770 FEL
✓ 07W43	43-037-16395	14-20-603-368	SEC. 7, T41S, R24E	2110 FSL; 660 FEL
✓ 07-44	43-037-31189	14-20-603-368	SEC. 7, T41S, R24E	SE/SE 737 FSL; 555 FEL
✓ 08-12	43-037-15991	14-20-603-368	SEC. 8, T41S, R24E	SW/NW 1909 FNL; 520 FWL
✓ 08W-14	43-037-15992	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

14-20-603-246

SE NW 1920 FNL 2080 FWL

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

7. UNIT AGREEMENT NAME

RATHERFORD UNIT

8. FARM OR LEASE NAME

9. WELL NO.

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

MOBIL OIL CORPORATION

3. ADDRESS OF OPERATOR

P. O. BOX 633 MIDLAND, TX 79702

SEP 15 1993

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

At surface

At proposed prod. zone

DIVISION OF  
OIL, GAS & MINING

10. FIELD AND POOL, OR WILDCAT  
GREATER ANETH

11. SEC., T., R., M., 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:

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) 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 JULY1, 1993, MOBIL OIL CORPORATION IS THE OPERATOR OF THE RATHERFORD UNIT. ATTACHED ARE THE INDIVIDUAL WELLS.

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

SIGNED Shirley Todd

TITLE ENV. & REG TECHNICIAN

DATE 9-8-93

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

See Instructions On Reverse Side

OCT 25 1993

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: \_\_\_\_\_  
Field or Unit name: RATHERFORD UNIT API no. \_\_\_\_\_  
Well location: QQ \_\_\_\_\_ section \_\_\_\_\_ township \_\_\_\_\_ range \_\_\_\_\_ county \_\_\_\_\_  
Effective Date of Transfer: July 1, 1993

CURRENT OPERATOR

Transfer approved by:

Name Ed Hasely Company Phillips Petroleum Company  
Signature Ed Hasely Address 5525 HWY. 64  
Title Environmental Engineer Farmington, NM 87401  
Date October 22, 1993 Phone ( 505 ) 599-3460

Comments:

NEW OPERATOR

Transfer approved by:

Name Shirley Todd Company Mobil Exploration & Producing North America  
Signature Shirley Todd Address P O Box 633  
Title Env. & Reg. Technician Midland, TX 79702  
Date October 7, 1993 Phone ( 915 ) 688-2585

Comments:

(State use only)  
Transfer approved by [Signature] Title SEC Manager  
Approval Date 10-27-93

BEFORE THE OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF UTAH

APPLICATION OF PHILLIPS PETROLEUM )  
 COMPANY FOR THE APPROVAL OF THE )  
 UNIT OPERATIONS AND PRESSURE MAIN- ) CAUSE NO. 63  
 TENANCE PROGRAM FOR THE RATHERFORD )  
 UNIT IN THE GREATER ANETH AREA, )  
 SAN JUAN COUNTY, UTAH )

ORDER

This Cause came on for hearing before the Oil and Gas Conservation Commission of the State of Utah at 10 o'clock a. m. on Wednesday, September 13, 1961, in the Crystal Room, Hotel Newhouse, Fourth South at Main Street, Salt Lake City, Utah, pursuant to notice duly and regularly given. The entire Commission, except Walter G. Mann, was present, Edward W. Clyde presiding. Appearances were made as follows: Cecil C. Hamilton, attorney, on behalf of Phillips Petroleum Company; Clair M. Senior, attorney, on behalf of Texaco, Inc.; Gordon Mayberry, attorney, on behalf of Continental Oil Company; R. R. Robison on behalf of Shell Oil Company. Others present included Carl Trawick, on behalf of United States Geological Survey; and J. R. White, on behalf of Texaco, Inc.

Evidence in support of the application was introduced by Phillips Petroleum Company, the applicant and Unit Operator of the Ratherford Unit, which embraces as the unit area the following described land in San Juan County, State of Utah, to wit:

TOWNSHIP 41 SOUTH, RANGE 23 EAST, SLEM

Section 1:	All	Sections 12 and 13:	All
Section 2:	S/2	Section 14:	S/2
Section 11:	S/2	Section 24:	All

TOWNSHIP 41 SOUTH, RANGE 24 EAST, SLEM

Section 3:	SW/4	Sections 15	All
Section 4:	S/2	through 21:	NE/4 and
Sections 5 through 9:	All	Section 22:	W/2 of the
Section 10:	S/2 and NE/4		SW/4
	and W/2 of NE/4	Section 23:	NE/4 and
Section 11:	S/2 of SW/4		W/2 of NE/4
			and W/2 of SW/4
Section 14:	W/2	Section 29 and 30:	All
		Section 31:	W/2
		Section 32:	S/2

R. R. Robison on behalf of Shell Oil Company stated that (as contemplated by paragraph No. 5 of the Commission's order of February 24, 1959, in Cause No. 17 authorizing the drilling of certain test wells) Shell would submit to the Commission, as arbiter, the question as between Shell and Superior Oil Company

of the monetary value, if any, to be attributed to three test wells drilled within the Ratherford Unit area pursuant to said order of February 24, 1959.

No objection to the granting of the application was filed or expressed. The Shell Oil Company, Texaco, Inc. and Continental Oil Company expressed their support of the application of Phillips Petroleum Company.

#### FINDINGS OF FACT

The Commission finds that:

1. The unitized operation of the Ratherford Unit Area will enable pressure maintenance operations to be initiated and permit such Area to be operated in a manner which will prevent waste, protect correlative rights and result in greater ultimate recovery of oil and gas.

2. The Ratherford Unit Agreement has been approved by the various signatory parties as fair, reasonable and acceptable.

3. The water injection pressure maintenance program proposed by the applicant appears to be proper and designed to result in the greatest economic recovery of oil and gas to the end that all concerned, including the general public, may realize and enjoy the greatest good from the oil and gas resources of the unitized lands.

#### ORDER

THEREFORE, IT IS ORDERED BY THE COMMISSION, and subject to its continuing jurisdiction, that:

1. Unit operation of the Ratherford Unit Area under the Ratherford Unit Agreement is approved.

2. The plan and program of water injection pressure maintenance operations proposed by applicant in its application filed herein should be and the same is hereby approved and the unit operator is authorized to proceed with and under such plan and program as soon as the Ratherford Unit Agreement becomes effective and operative.

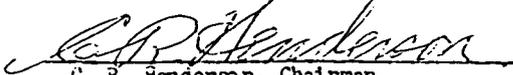
3. If, at any time or from time to time, it appears necessary or desirable to the unit operator to alter or modify the hereby approved plan of pressure maintenance, any such alteration or modification shall be submitted for

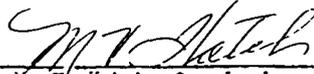
and shall be subject to approval by the Commission or its delegated representative, which approval may be given without notice or hearing, unless otherwise ordered or directed by the Commission.

Dated this 13th day of September, 1961.

THE OIL AND GAS CONSERVATION  
COMMISSION OF THE STATE OF UTAH

  
Edward W. Clyde, Commissioner presiding

  
C. R. Henderson, Chairman

  
M. V. Hatch, Commissioner

  
C. S. Thomson, Commissioner

  
Walter G. Mann, Commissioner

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.

*246 Ratherford Unit (GC)*

RECEIVED  
BLM

JUL 27 AM 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

MINERALS DIVISION
NO. 1 543
DATE
BY
3
2
FILED
ALL SUPV.
FILED

Dear Mr. Cox:

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

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

Sincerely,

ACTING Area Director

Enclosure

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS

DESIGNATION OF OPERATOR

RECEIVED  
BLM

JUN 27 11:44

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

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

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

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

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

EXHIBIT "A"

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

EXHIBIT "C"

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

<u>Tract Number</u>	<u>Description of Land</u>	<u>Serial Number and Effective Date of Lease</u>	<u>Tract Percentage Participation</u>
1	S/2 Sec. 1, E/2 SE/4 Sec. 2, E/4 Sec. 11, and all of Sec. 12, T-41-S, R-23-E, S.L.M. San Juan County, Utah	14-20-603-246-A Oct. 5, 1953	11.0652565
2	SE/4 and W/2 SW/4 Sec. 5, the irregular SW/4 Sec. 6, and all of Sec. 7 and 8, T-41-S, R-24-E, San Juan County, Utah	14-20-603-368 Oct. 26, 1953	14.4159942
3	SW/4 of Sec. 4, T-41-S, R-24-E, San Juan County, Utah	14-20-603-5446 Sept. 1, 1959	.5763826
4	SE/4 Sec. 4, and NE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4035 March 3, 1958	1.2587779
5	SW/4 of Sec. 3, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5445 Sept. 3, 1959	.4667669
6	NW/4 of Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5045 Feb. 4, 1959	1.0187043
7	NW/4, W/2 NE/4, and SW/4 Sec. 10, SE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4043 Feb. 18, 1958	3.5097575
8	SW/4 Sec. 9, T-41-S, R-24-E, S.L.M. San Juan County, Utah	14-20-603-5046 Feb. 4, 1959	1.1141679
9	SE/4 Sec. 10 and S/2 SW/4 Sec. 11 T-41-S, R-24-E, San Juan County, Utah	14-20-603-4037 Feb. 14, 1958	2.6186804
10	All of Sec. 13, E/2 Sec. 14, and E/2 SE/4 and N/2 Sec. 24, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-247-A Oct. 5, 1953	10.3108861
11	Sections 17, 18, 19 and 20, T-41-S, R-24-E, San Juan County Utah	14-20-603-353 Oct. 27, 1953	27.3389265
12	Sections 15, 16, 21, and NW/4, and W/2 SW/4 Sec. 22, T-41-S, R-24-E, San Juan County, Utah	14-20-603-355 Oct. 27, 1953	14.2819339
13	W/2 Section 14, T-41-S, R-24-E, San Juan County, Utah	14-20-603-370 Oct. 26, 1953	1.8500847
14	N/2 and SE/4, and E/2 SW/4 Sec. 29, NE/4 and E/2 SE/4 and E/2 W/2 irregular Sec. 30, and E/2 NE/4 Sec. 32, T-41-S, R-24-E, San Juan County, Utah	14-20-603-407 Dec. 10, 1953	6.9924969
15	NW/4 Sec. 28, T-41-S, R24-E San Juan County, Utah	14-20-603-409 Dec. 10, 1953	.9416393
16	SE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6504 July 11, 1961	.5750254
17	NE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6505 July 11, 1961	.5449292
18	NW/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6506 July 11, 1961	.5482788
19	NE/4 Sec. 4, T-41-S, R24-E San Juan County, Utah	14-20-0603-7171 June 11, 1962	.4720628
20	E/2 NW/4 Sec. 4, T-41-S, R-24-E San Juan County, Utah	14-20-0603-7172 June 11, 1962	.0992482
100% Indian Lands			TOTAL 12,909.74
			100.0000000

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

Route original/copy to:

Well File \_\_\_\_\_  
\_\_\_\_\_  
(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-VEC/47-8	<input checked="" type="checkbox"/>
2-DTS/58-8	<input checked="" type="checkbox"/>
3-VLC	<input checked="" type="checkbox"/>
4-RJY	<input checked="" type="checkbox"/>
5-IBP	<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>43-037-15838</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 \_\_\_\_\_ 1993. If yes, division response was made by letter dated \_\_\_\_\_ 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 \_\_\_\_\_ 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: 11-16 1993.

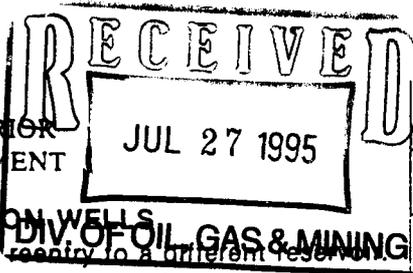
FILING

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

COMMENTS

931006 BIA/Btm Approved 7-9-93.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



FORM APPROVED  
Budget Bureau No. 1004-0133  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

6. If Indian, Allottee or Tribe Name  
Navajo Tribal

7. If Unit or CA, Agreement Designation  
Ratherford Unit

8. Well Name and No.  
Ratherford 1W13

9. API Well No.  
43-037-15838

10. Field and Pool, or Exploratory Area  
Greater Aneth

11. County or Parish, State  
SAN JUAN, UT

SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well  
 Gas Well  
 Other Injector

2. Name of Operator  
MOBIL OIL CORPORATION

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1980' FSL, 600' FWL 4600' FEL  
Sec. 1, T41S, R23E

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

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

(Note: Report results of multiple completions 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.)

MIT Failure due to mechanical or casing leak. A procedure will be submitted if the well has a casing leak.

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

Signed Shirley Robertson Title Environmental & Reg. Technician Date 7-22-95

(This space for Federal or State office use)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

5. Lease Designation and Serial No.

14-20-603-246A

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation  
RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 1W13

9. API Well No.

43-037-15838

10. Field and Pool, or exploratory Area  
GREATER ANETH

11. County or Parish, State

SAN JUAN UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other INJECTOR

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1980' FSL, 660' FWL  
SEC.1, T41S, R23E

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

TYPE OF SUBMISSION

- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

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

MIT FAILURE WAS DUE TO A PACKER FAILURE.

AUG 21 1995

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

Signed Shirley Robertson

Title ENV. & REG. TECHNICIAN

Date 8-14-95

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

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

\* See instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

5. Lease Designation and Serial No.

14-20-603-246A

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other INJECTOR

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1980' FSL, 660' FWL  
SEC.1, T41S, R23E

8. Well Name and No.  
RATHERFORD 1W13

9. API Well No.  
43-037-15838

10. Field and Pool, or exploratory Area  
GREATER ANETH

11. County or Parish, State  
SAN JUAN UT

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

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

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

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

MIT FAILURE WAS DUE TO A PACKER FAILURE.

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

Signed Shirley Robertson Title ENV. & REG. TECHNICIAN Date 8-14-95

(This space for Federal or State office use)

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

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

STATE OF UTAH  
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
✓MEPNA (MOBIL	43-037-15506	L-21	41S	25E	18	INJW	Y
✓MEPNA (MOBIL	43-037-16358	K-24	41S	25E	18	INJW	Y
✓MEPNA (MOBIL	43-037-30400	K-22X	41S	25E	18	INJI	Y
✓MEPNA (MOBIL	43-037-15499	J-21	41S	25E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15508	L-25	41S	25E	19	INJW	Y
✓MEPNA (MOBIL	43-037-15839	1W24	41S	23E	1	INJW	Y
✓MEPNA (MOBIL	43-037-15838	1W13	41S	23E	1	INJW	Y
✓MEPNA (MOBIL	43-037-16386	2W44	41S	23E	2	INJW	Y
✓MEPNA (MOBIL	43-037-15842	11W44	41S	23E	11	INJW	Y
✓MEPNA (MOBIL	43-037-15841	11W42	41S	23E	11	INJW	Y
✓MEPNA (MOBIL	43-037-15848	12W33	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15850	12W42	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15847	12W31	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-16404	12W13	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15845	12W22	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15843	12W11	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-31151	12W24	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-31543	RATERFORD 12	41S	23E	12	INJW	Y
✓MEPNA (MOBIL	43-037-15854	13W31	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-15851	13W13	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-15857	13W42	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-16407	13W44	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-15855	13W33	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-31152	13W11	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-15852	13W22	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-15853	13W24	41S	23E	13	INJW	Y
✓MEPNA (MOBIL	43-037-16410	14W43	41S	23E	14	INJI	Y
✓MEPNA (MOBIL	43-037-15860	14W43	41S	23E	14	INJW	Y
✓MEPNA (MOBIL	43-037-15863	24W42	41S	23E	24	INJW	Y
✓MEPNA (MOBIL	43-037-15862	24W31	41S	23E	24	INJW	Y
✓MEPNA (MOBIL	43-037-15984	6W14	41S	24E	6	INJW	Y
✓MEPNA (MOBIL	43-037-15988	7W32	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15990	7W41	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16394	7W21	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15985	7W12	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15989	7W34	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15986	7W14	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15987	7W23	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16395	7W43	41S	24E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16396	8W43	41S	24E	8	INJI	Y
✓MEPNA (MOBIL	43-037-15992	8W14	41S	24E	8	INJW	Y
✓MEPNA (MOBIL	43-037-16398	9W23	41S	24E	9	INJW	Y
✓MEPNA (MOBIL	43-037-16400	9W43	41S	24E	9	INJI	Y
✓MEPNA (MOBIL	43-037-16397	9W21	41S	24E	9	INJW	Y
✓MEPNA (MOBIL	43-037-16402	10W23	41S	24E	10	INJW	Y
✓MEPNA (MOBIL	43-037-16401	10W21	41S	24E	10	INJI	Y
✓MEPNA (MOBIL	43-037-16403	10W43	41S	24E	10	INJW	Y
✓MEPNA (MOBIL	43-037-16413	15W43	41S	24E	15	INJI	Y
✓MEPNA (MOBIL	43-037-16411	15W21	41S	24E	15	INJW	Y
✓MEPNA (MOBIL	43-037-16412	15W23	41S	24E	15	INJI	Y
✓MEPNA (MOBIL	43-037-16415	16W43	41S	24E	16	INJW	Y
✓MEPNA (MOBIL	43-037-15720	16W12	41S	24E	16	INJW	Y
✓MEPNA (MOBIL	43-037-15721	16W14	41S	24E	16	INJW	Y

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

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

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

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

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

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

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

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

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

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

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

Routing	
1- <u>VLC</u>	7- <u>PL</u>
2- <u>LWP</u>	8- <u>SJ</u>
3- <u>DT</u>	9- <u>FILE</u>
4- <u>VLC</u>	
5- <u>RJF</u>	
6- <u>LWP</u>	

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                              **XXX** Operator Name Change Only

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

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

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

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

Name: <u>** SEE ATTACHED **</u>	API: <u>037-15838</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

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

ENTITY REVIEW

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

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

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

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

FILMING

- 1. All attachments to this form have been microfilmed. Date: October 4 1995.

FILING

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

COMMENTS

*950803 UIC F5/Not necessary!*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**  
OCT 26 1995  
DEPT OF OIL, GAS & MINING

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 reenter a well in a different reservoir.

Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

4-20-603-246A

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

01 W 13

9. API Well No.

15838  
43-037-15383

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other INJECTOR

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1980' FSL, 660' FWL  
SEC. 1, T41S, R23E

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

TYPE OF SUBMISSION

- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

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

- 7-11-95 MIRU POH W/TBG.
- 7-12-95 TIGHT SPOT AT 2500' & 3680'.
- 7-13-95 RIH W/SWEDGE TO 5440'
- 7-14-95 SET CMT RET. @ 5300'. RIH W/PKR. PRESS. TEST CSG 1000#/30 MIN/HELD. DO CMT RET. @ 5300' CIRC. HOLE CLEAN
- 7-17-95 DO/CO TO 5530' TD.
- 7-18-95 RIH W/ 2 7/8 DUOLINED TBG. SET PKR @ 5335'. PRESS TEST CSG 1000#/30 MIN/HELD. RDMO.

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

Signed Shirley Robertson

Title ENV. & REG. TECHNICIAN

Date 10-20-95

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT -" for such proposals

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

5. Lease Designation and Serial No.

14-20-603-246A

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

1 W 13

9. API Well No.

43-037-15838

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other INJECTOR

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

3. Address and Telephone No.

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

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

NW/SW 1980 FSL, ~~660' FWL~~ 4620' FEL  
SEC. 1, T41S, R23E

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

TYPE OF SUBMISSION

- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

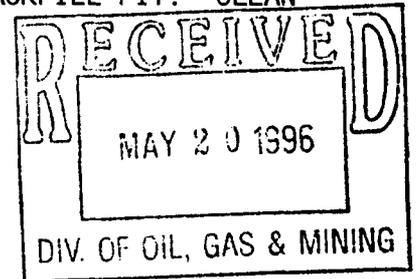
TYPE OF ACTION

- Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other \_\_\_\_\_
- Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

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

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

4-29-96 MIRU  
4-30-96 POH W/PKR & TBG. SET CMT RET @ 5130'  
5-01-96 COULD NOT PUMP AT 3000 PSI. OBTAINED BLM/EPA APPROVAL TO CONTINUE. SPOT 24 SX CL G CMT OF TOP OF RET. 200'. SPOT CMT PLUG 4575 - 4393 (28 CU FT OR 200') PERF & TAG CMT @ 4393'. PERF 1596' - 1600'. RIH W/CMT RET @ 1482'. PUMP 58.5 BBLS (328 CU FT) CMT GOOD RETURNS. FILL 5 1/2" CSG W/ CL G CMT IN 400' STAGES TO SURFACE (203 CU FT).  
5-02-96 CUT WELLHEAD OFF 3' BELOW GROUND LEVEL. CMT AT SURF ON ALL CSG STRINGS. WELD 2 - 7/8" PIPE TO SURF W/P&A MARKER PLACED AT GROUND LEVEL. BACKFILL PIT. CLEAN LOCATIN. RDMO.



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

Signed Shirley Robertson

Title ENV. & REG. TECHNICIAN

Date 5-16-96

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other INJECTOR	5. Lease Designation and Serial No. 14-20-603-246A
2. Name of Operator Mobil Exploration & Producing U.S. Inc. as Agent for Mobil Producing TX & NM Inc.	6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3. Address and Telephone No. P.O. Box 633, Midland, TX 79702 (915) 688-2585	7. If Unit or CA, Agreement Designation RATHERFORD UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) NW/SW 1980 FSL, 660' FWL SEC. 1, T41S, R23E	8. Well Name and No. 1 W 13
	9. API Well No. 43-037-15838
	10. Field and Pool, or exploratory Area GREATER ANETH
	11. County or Parish, State SAN JUAN UT

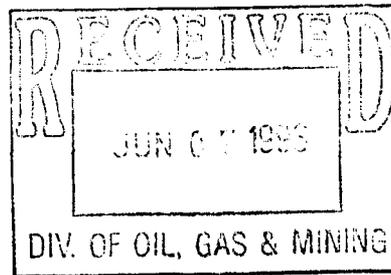
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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

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

SEE ATTACHMENT



14. I hereby certify that the foregoing is true and correct  
Signed Shirley Robertson Title ENV. & REG. TECHNICIAN Date 6-03-96

(This space for Federal or State office use)

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

Accepted by the  
Utah Division of  
Oil, Gas and Mining

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

Ken Townsend called 25/April/96  
and approved. (BLM)

Coahoma in midday  
21-69 sample  
62.8%  
3911697

22.5  
25.5  
78.0

Rutherford Unit 1-13  
Plug and Abandonment

STATUS/JUSTIFICATION: Well is shut in due to MIT failure. Flood Management Team reviewed this well for future potential and found none. Repair of this well can not be economically justified for this well does not support any producers.

PLUG AND ABANDONMENT PROCEDURE

1. Notify Mike Flaniken with the Bureau of Land Management at 505/599-8907 at least 48 hours prior to plugging the well. Document date/time BLM is notified and also document the date/time that BLM representative is on location.
2. MI workover rig. RU kill line to wellhead. Bullhead 40 bbls of 10 ppg brine into well. Record shut in tubing pressure. Calculate required kill weight mud. Mix fresh water kill weight mud containing a minimum of 15 lbs/bbl of sodium bentonite and a nonfermenting polymer. Mud to have a minimum viscosity of 50 sec/qt. Bullhead same into well. Circulate kill weight mud to surface. Check for flow. If OK then RD wellhead and NU/PT BOP's. Release Guiberson G-6 packet and POH standing back injection string.
3. RIH with cement retainer on tubing and set at 5130'. Pressure backside to 500 psi and monitor. Mix and pump 136 sxs of class B 15.6 ppg cement (156 cu ft). Displace 130 sxs below retainer or to a maximum squeeze pressure of 3000 psi. Pull out of retainer and allow remaining 6 sxs or more of cement equalize on top of cement retainer. *28 bbls Spot 5bbls (200 ft) on top of retainer*
4. PU to 4575' and spot 28 cu ft of class B 15.6 ppg neat cement from 4575'-4375'. Pull out of cement plug at less than 30 ft/min. WOC. *4375' 1661*
5. Tag top of cement plug with workstring. Cement top must be above 4425'. Spot additional cement as necessary. POH laying down all but 1482' of 2-7/8" tubing.
6. RU wireline. RIH with 4" perforating gun loaded with deep penetrating charges at 4 SPF and perforate ~~1596'-1600'~~. POH.

1596'-1600'

*58,5 bbls pump when had good returns*

- 7. RIH with cement retainer on 2-7/8" workstring and set at 1482' (Wireline set cement retainer optional). PT backside to 200 psi and monitor. Establish injection rate of 1-2 BPM using fresh water taking returns on 5-1/2"/8-5/8" casing annulus. Mix and pump 624 cu ft of class B 15.6 ppg neat cement (includes 100 percent excess as required by BLM) and displace cement to cement retainer. Note: If get good uncontaminated cement returns, the pumping of cement can be discontinued. Pull out of cement retainer and reverse out with fresh water. POH and lay down setting tool. RIH with 500' of 2-3/8" tailpipe (Optional) on 2-7/8" workstring to top of cement retainer at 1482'. Fill hole with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 203 cu ft. *→ 36.1 bbls pump!*
- 8. If top of casing strings are above ground level, cut off casing strings at ground level. Top off all casing annuli with cement. Use 1" spaghetti string if necessary to spot cement. Weld on a 1/4" steel plate having a 1/4" weep hole. Steel plate should cover all casing strings and have the following information welded or stamped on the top of the plate:

Mobil E&P U.S., Inc.  
 Rutherford Unit #1-13  
 Navajo Tribal Lease  
 14-20-603-246A  
 1980' FSL, 660' FWL  
 Sec. 1 - T41S - R23E  
 San Juan Co., Utah

- 9. RDMO workover rig. Haul off salvaged equipment and clean location. Notify Shirley Robertson with Mobil at 918/688-2585 when work is completed so that a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5) can be filed with the Bureau of Land Management.

PREPARED BY: \*\* Sean S. Murphy

DATE: April 25, 1996

\*\* FINAL MOBIL PROJECT AS PERMANENT EMPLOYEE

*Sean S. Murphy, P.E.*



*from Crown 0-10*

*6888'  
7201789*

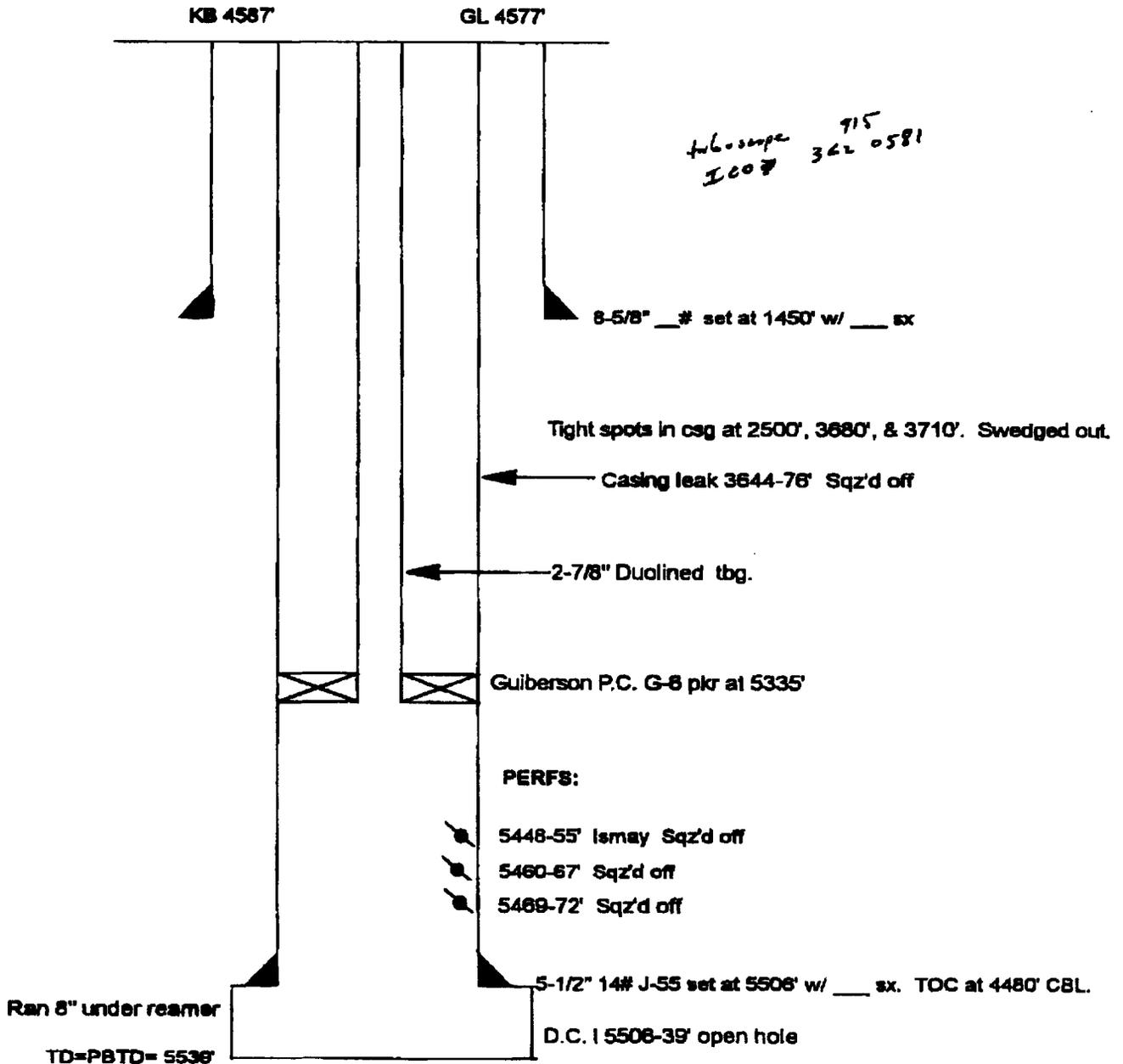
*about 505/325-5000*

**RATHERFORD UNIT # 1-13**  
**GREATER ANETH FIELD**  
**1980' FSL & 880' FWL**  
**SEC 1-T41S-R23E**  
**SAN JUAN COUNTY, UTAH**  
**API 43-037-15838**  
**PRISM 0042912**

**INJECTOR**

Capacities:	bbbl/ft	gal/ft	cuft/ft
2-7/8" 8.5#	.00579	.2431	.0325
5-1/2" 14#	.0244	1.0249	.1370
5-1/2" 15.5#	.0238	.9897	.1338
2-7/8x6.5 14#	.0184	.8877	.0919
2-7/8x5.5 15.5#	.0158	.8525	.0886

**EXISTING**



**RATHERFORD UNIT # 1-13**  
**GREATER ANETH FIELD**  
**1980' FSL & 660' FWL**  
**SEC 1-T41S-R23E**  
**SAN JUAN COUNTY, UTAH**  
**API 43-037-15838**  
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2-7/8" 5.5 14#	.0184	.8877	.0919
2-7/8" 5.5 15.5#	.0158	.6625	.0866

PROPOSED

