

Scout Report sent out

Noted in the NID File

Location map pinned

Approval or Disapproval Letter

Date Completed, P. & A, or
operations suspended 3-31-58

Pictures on location map

Approval and Record of A & P

Water Sample-Off Test

Gas Oil Sample Test

Well Log Filed

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W R for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed 3-30-58

OW WW TA

GW CS PA

Location Inspected

Bond released

State of Fee Land

LOGS FILED

Driller's Log 4-29-58

Electric Logs (No.) 3

E I E-I GR GR-N Micro

Lat. Mi-L Sonic Others

32 duplicate to

UTAH OIL AND GAS CONSERVATION COMMISSION

WELL LOG 1 ELECTRIC LOGS _____ FILE X NO FILE _____ **Driller's Report

REMARKS: Subsequent Repr^{RE-} Compltⁿ 4-6-60 - Recompleted 3-29-60 - IP Flowing, 802 BD Gross, 791 BD oil, 1.4% Cut, 379 MCFGD, GOR 480; 32/64" choke, TP 260, CPO.

DATE FILED 8-29-57 Nav 14-20-603-

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

DRILLING APPROVED: 8-29-57

SUDDDED IN: 11-11-57

COMPLETED: 3-30-58 *Recompleted 3-29-60

INITIAL PRODUCTION: 255 BOPD **227 MCFGD *791 BOPD, 11 BW **379 MCFGD

GRAVITY A. P. I. 41° *41°

GOR: 890:1 *480

PRODUCING ZONES: 5522-5692 *5455-5692'

TOTAL DEPTH: 5692'

WELL ELEVATION: 4661KB

020973

DATE ABANDONED:

FIELD OR DISTRICT: ~~Rutherford~~ Aneth

COUNTY: San Juan

WELL NO. RATHERFORD 44-1 (RATHERFORD 1-74) APT 43-037-15840

LOCATION: 660 FT. FROM ~~W~~ (S) LINE, 661 FT. FROM (E) ~~W~~ LINE. SE SE $\frac{1}{4}$ - $\frac{1}{4}$ SEC. 1

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
<u>58</u>	<u>1 S</u>	<u>23 E</u>	<u>1</u>				<u>PHILLIPS</u> SHELL OIL COMPANY

GEOLOGIC TOPS:

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	Ourray
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	
Mesaverde	Chinle	Chairman shale	
Price River	Shinarump	Humbug	
Blackhawk	Moenkapi	Joana limestone	

2327'

2397'

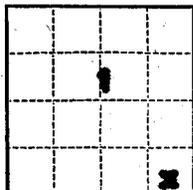
2473'

4531'

5505'

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-20-603-246

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)

August 23, 1957

North Desert Creek
Well No. 44-1 is located 660 ft. from $\left\{ \begin{matrix} N \\ S \end{matrix} \right\}$ line and 661 ft. from $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$ line of sec. 1

SE 1 41S 23E SLM
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
North Desert Creek **San Juan** **Utah**
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~derrick floor above sea level~~ is 4652 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)

1. Drill 11" hole to 1200'±.
2. Cement 9-5/8" casing at 1200'± with 400 sacks pozzimix and 200 sacks construction cement.
3. Drill 7-7/8" hole to 5465'±.
4. Cement 5-1/2" casing at 5460'± with 200 sacks construction cement.
5. Clean out to 5445'±.
6. Perforate four 1/2" holes/ft. at gross interval 5300-35' (depending on logs).
7. Wash perforations with 200 gal. mud acid and inject 2000 gal. KFW acid.
8. Make production test and kill well with water.
9. Perforate four 1/2" holes/ft. gross interval 5345-5400' (depending on logs).
10. Wash perforations with 500 gal. mud acid.
11. Make production test, establish initial 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 S. Behrend

Farmington, N. M.

By B. W. Shepard
B. W. Shepard

Title Exploitation Engineer

28

R. 23 E. S. L. M.

B. L. M. Brass Cap Found

N

Tr. 77

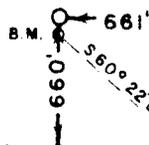
T. 41 S.

B. L. M. Brass Cap Found

North 2640' (Record)

ELEVATION DATA

GROUND 4652' U G
MATT
D F
K B
B M 4655.5'



B. L. M. Brass Cap Found

REFERENCE POINT DATUM-

1"x2" STAKES SET AT 10' N, S, E, & W OF LOC

1"x2" stake and 3' flag set at 296'S., 163'N., 202'E., & 209'W. of Loc.
1/4" angle iron and 10' flag set at Loc. being 661'W. & 660'N. of the SE Cor. of Sec. 1, Tr. 77, T. 41S., R. 23E., S.L.M.
1"x2" hub and 3' flag bears South 296' from the Loc. for B.M.

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

John A. Kroeger
John A. Kroeger, Reg. L.S.
Utah Reg. No. 1648



Drawn By Ritter	SHELL OIL COMPANY	Scale 1" = 1000'
Checked By A.C.T.		
Date 8/27/57		

37 LOCATION OF NORTH DESERT CREEK 44-1
SAN JUAN COUNTY, UTAH, SEC. 1, Tr. 77, T. 41S., R. 23E., S.L.M.

August 29, 1997

Shell Oil Company
101 South Behrend
Farmington, New Mexico

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. North Desert Creek 44-1, which is to be located 660 feet from the south line and 661 feet from the east line of Section 1, Township 41 South, Range 23 East, S1EM, San Juan County, Utah.

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

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT
SECRETARY

CBF:cn

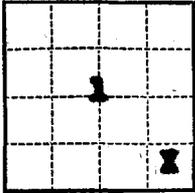
cc: Phil McGrath
UEGS, Farmington,
New Mexico

DR-UEGS

25

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal Lands
Lease No. 14-30-603-246

*Noted
H 11-20*

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

November 12, 1957

North Desert Creek

Well No. 44-1 is located 660 ft. from S line and 661 ft. from E line of sec. 1

SE 1 (1/4 Sec. and Sec. No.) 41S (Twp.) 23E (Range) S1EM (Meridian)
Rutherford (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation ~~of the surface of the ground~~ is 652 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 11-7-57)

11-10, 11-57 Ran and cemented 8-5/8" 32#, J-55 casing at 1503' with 700 sacks treated cement. Good returns to surface, flanged up and waited on cement. Test BOP and casing with 700 psi, 15 minutes OK.

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

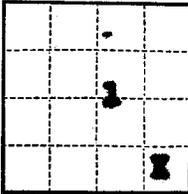
Farmington, New Mexico

By B. W. Shepard

Title Exploitation Engineer

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal lands

Lease No. 14-28-603-246

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 Well Completion</u> X	

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

April 2, 19 58

North Desert Creek

Well No. 44-1 is located 660 ft. from S line and 661 ft. from E line of sec. 1

SE 1
(¼ Sec. and Sec. No.)

41 S
(Twp.)

23 E
(Range)

S1M
(Meridian)

Navahord
(Field)

San Juan
(County or Subdivision)

Utah
(State or Territory)

Kelly Bushing

The elevation of the ~~formation~~ above sea level is 4640.9 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)

- 12-6-57 Cemented 5-1/2" 14# casing at 5522' with 200 sacks regular cement.
- 12-8,9, 10-57 Wireline cored interval 5535-5692'. Released drilling rig 4:00 A.M. 12-11-57.
- 12-19-57 Moved in completion rig. Set formation packer at 5596'. Acidized below packer with 100 gal. regular and 1000 gal. retarded acid.
- 12-20-57 Acidized above packer with 2000 gal. regular and 2000 gal. retarded acid.
- 12-21-57 Stabbed 17 hrs. all salt water. Prepared to plug at bottom.
- 12-22-57 to 1-1-58 Plugged after some difficulty and re-drilled to 5625'.
- 1-4-58 Ran packer, checked TD at 5625'. Circulated 300 gal. mud acid to formation.
- 1-5-58 Set packer at 5597', started stabbing. Well flowed intermittently.

(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 101 South Behrend Avenue

Farmington, New Mexico

Original signed by
B. W. SHEPARD

By B. W. Shepard

Title Exploitation Engineer

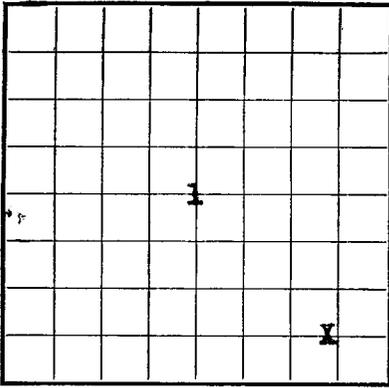
Handwritten initials 'M' and '1'.

1-17-58 Shut in pending further work.
 1-18-58 Acidized above packer with 200 gal. mud acid, 2000 gal. regular and 2000 gal. retarded acid. Open well on 12/64" choke. Flowed 25 bbls. gross and died.
 1-17-58 Sumbed to natural flow. Flowed 11-1/4 hrs. 30-40 bbls/hr. Ran pressure bomb for flowing measurement. Shut well in.
 1-18-58 Pulled tubing and packer, summed.
 1-21-58 Check TB at 5631', Casing at 5523'. Plugged well back 8' with shoot-a-squose tool. Stuck tool.
 1-26-58 Recovered tool.
 1-27-58 Plugged back additional 4' to 5619'.
 1-28-58 Ran 2-1/2" NVE tubing to 5617', ball plugged on bottom, Perfs. 5 562-86', Sealing nipple at 5581'. Sumbed 109 bbls. water, 90 bbls. oil in 5 hrs. Well kicked and flowed 13 bbls. oil, 2 bbls. water in 1-3/4 hrs. and died.
 1-29-58 Sumbed 2 hrs., well kicked off. Cleaned to pits 2-1/2 hrs.
 1-30-58 INITIAL PRODUCTION: Flowed 24 hrs. 258 B/D gross, 255 B/D oil, 1.25 cut, 227 MCF/D gas, TP 80, CP640, OOR 890, 48/64" choke.
 Completed 1-30-58

APR 8 1958

15

U. S. LAND OFFICE Tribal
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 101 S. Behrend, Farmington, New Mexico
Lessor or Tract Tribal - North Desert Creek Field Ratherford State Utah
Well No. 14-1 Sec. 1 T. 41S R. 23E Meridian S.L.B.M. County San Juan
Location 660 ft. ^[N.] of S. Line and 661 ft. ^[E.] of E. Line of Section 1 Elevation 4661 ^[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
R. W. SHEPARD

Signed _____

Date April 9, 1958 Title Exploitation Engineer

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

Commenced drilling November 11, 1957 Finished drilling December 11, 1957

OIL OR GAS SANDS OR ZONES

(open hole) (Denote gas by G)

No. 1, from 5522 to 5692 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"	32	8	--	1490	Baker	--	--	Surface	
5 1/2"	11	8	--	5522	Baker	5522	5692	Production	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	1503	500 Dramix + 200	Displacement	--	--
5 1/2"	5522	200	Displacement	--	--

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

FOLD MARK

FOLD MARK

8 5/8"	1503	500 Dramix + 200	Displacement	---	---
5 1/2"	5522	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 0 feet to 4692 feet, and from --- feet to --- feet
 Cable tools were used from --- feet to --- feet, and from --- feet to --- feet

DATES

April 9, 1958 Put to producing March 30, 1958
 The production for the first 24 hours was 258 barrels of fluid of which 98.8% was oil; ---%
 emulsion 1.2% water; and ---% sediment. Gravity, 11.6, approx. 41.9 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

V. L. Metz, Driller Shell Rig #18
 M. Loney, Driller
 E. T. Lawson, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
2327	2397	70	Shinarump
2397	2473	76	Moenkopi
2473	4531	2058	Cutler
4531	5505	974	Upper Hermosa
5505	---	---	Paradox

766 5 1 1958

FOOT MARK

Case No.	Where put	Number sacks of cement	Less barrels	Water used	Amount of mud

MUDDING AND CEMENTING RECORD

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

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

Date	Depth	Depth of plug	Material	Amount	Kind of shot	Cost and barrel room	Remarks	Number

Attached: Drilling History

From	To	Remarks
10' 3' from	10' 4' from	
10' 1' from	10' 3' from	

IMPORTANT WATER SANDS

From	To	Remarks
10' 3' from	10' 4' from	
10' 2' from	10' 3' from	
10' 1' from	10' 2' from	

OIL OR GAS SANDS OR ZONES

Commenced drilling _____ 19__ Finished drilling _____ 19__

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

Date _____

so far as can be determined from all available records.

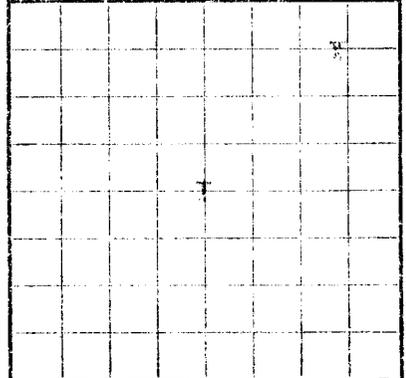
The information given herewith is a complete and correct record of the well and all work done thereon.

Location _____ of _____ line and _____ of _____ line of _____

Well No. _____ of _____

Owner of _____

LOCATE WELL CORRECTLY



LOC OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

PER USE OF BUREAU OF PROSPECT
SERIAL NUMBER
U. S. FIELD OFFICE

SHELL OIL COMPANY

North Desert Creek

WELL NO. 111-1

Ratherford

DRILLING REPORT

FOR PERIOD ENDING

1

San Juan, Utah
(COUNTY)

12-12-57

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

DAY	DEPTHS		REMARKS
	FROM	TO	
11-8 to 11-12	0	1555	<p><u>Location:</u> 660' N and 661' 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 4659.1 GR 4650.1 KB 4660.9</p> <p>Spudded 3:00 P.M. 11-8-57. Ran and cemented 13 3/8" conductor pipe at 42' with 75 sacks treated cement. Cemented (1490') 8 5/8", 32#, J-55 casing at 1503' with 500 sacks 1:1 Dramix followed by 200 sacks cement treated with 2% calcium chloride. Returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 700 psi, O.K. Located top of cement at 1449'.</p>
11-13 to 12-4	1555	5452	<p><u>Drilled 3897'</u>. Lost cones in hole at 3626', recovered with magnet and junk sub.</p>
12-5	5452	5534	<p><u>Drilled 82'</u>. Ran Electrical Survey, Gamma Ray-Neutron Log.</p>
12-6	5534		<p>Ran and cemented (5512') 5 1/2" 14#, J-55 casing at 5522' with 200 sacks cement.</p>
12-7			<p>Waited on cement. Picked up tubing, cleaned out, (hit cement at 5490').</p>
12-18 to 12-11	5534	5692	<p><u>Cored 157'</u>. Core #1 5535-5552, Core #2 5551-5569, Core #3 5569-5586, Core #4 5586-5602, Core #5 5602-5620, Core #6 5620-5638, Core #7 5638-5646, Core #8 5656-5674, Core #9 5674-5692. Ran Induction-Electrical Survey and Gamma Ray-Neutron Log.</p>
12-12			<p>Displaced mud with water, landed tubing at 5663'. Released rig 4:00 A.M. 12-11-57.</p> <p>Checked BOP daily Mud Summary Wt 9.5-10.2#/gal. Vis 45-58 sec. WL 5.2-10 cc FC 1-2/32"</p>

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZES				

Contractor - Shell Rig #18
 Drillers: V. L. Metz
 E. T. Lawson
 M. Loney

B. B. Robinson

SIGNED

SHELL OIL COMPANY

North Desert Creek

WELL NO. 111-1

DRILLING REPORT
FOR PERIOD ENDING

Ratherford

(FIELD)

San Juan, Utah

(COUNTY)

12-12-57

(SECTION OR LEASE)

T 41 S. R 23 E.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
12-19 to 12-20	5692		Pulled tubing. Ran back in hole with Sweet packer hung at 5596', tail to bottom (5692'). Washed entire interval 5522-5692 with 500 gallons mud acid. Went on vacuum in 4 minutes. Set packer, Acidized lower zone (5596-5692) with 1,000 gallons XFW acid and, 1,000 gallons Jel X-100, flushed with 57 barrels of water. Maximum pressure 1650 psi, minimum pressure 0, average rate 7.6 bbls/min. Pulled separation tool, ran side door choke. Acidized upper zone (5522-5596) with 2000 gallons XFW acid and 2000 gallons Jel X-100, flushed with 81 barrels water. Maximum pressure 3500 psi, minimum pressure 2200 psi, average rate 1.3 barrels/minute. Pulled tubing, removed packer, ran tubing to 5690', perforations 5655 to 5659. Swabbed 12 hours, recovered approximately 300 bbls. water, fluid level 500'.
12-21			Swabbed 17 hours, all salt water. Opened casing to bleed off pressure, well started to flow oil through casing, approx. 50+ bbls./hr. gross rate. Killed well. Pulled tubing.
12-22			Ran Baker, Model K cast iron retainer on tubing set at 5622'. Pumped water into formation below retainer at 2 bbls./min., 700 psi; vacuum when shut down. Pumped at rate of 3 bbls./min. into annulus, unable to load hole. Mixed 100 sacks cement, pumped 50 sacks into formation when retainer seat failed. Immediately reset retainer and displaced remainder of cement at 1200 psi. Attempted to back off from retainer without success. Worked retainer free, pulled up 10' and retainer reset. Continued to work retainer until it could not be moved. Pressured annulus to 2500 psi, pressure held. Ran wireline, found tubing plugged at 5311'. Free point indicator - tubing free at 5311'.
12-23			Cut tubing off with acid cutter at 5305'.
12-24 to 12-27			Went in hole with tubing with wash over pipe, found top of fish at 5300'. Found top of cement at 5533'. Washed over to 5547', wash pipe torqued badly. Pulled tubing and found wash over shoe worn on face and outside.
12-28			Ran McCullough outside cutter, cut at 5522'. Pulled and recovered 251' of fish. Top of fish 5542'.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		

DRILL PIPE SIZES

B. B. Robinson

Ratherford

(FIELD)

DRILLING REPORT

FOR PERIOD ENDING

1

San Juan, Utah

(COUNTY)

1-12-57

(SECTION OR LEASE)

T 41 S., R 23 E.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
12-29-57 to 1-2-58	5692 5625	TD P&F	Ran flat bottom mill. Reamed 5544-5551, milled to 5568. Ran diamond bit, redrilled to 5625'. Released work over rig.
1-4 to 1-5			Moved in swabbing unit. Pulled and reran Lynes packer. Circulated 300 gallons mud acid against formation (5522-5625). Set packer at 5597'. Swabbed 6 1/2 hours, 32 barrels load water, 7 barrels acid water, 90 barrels mud and salt water + 43 barrels oil, fluid level 2000'.
1-6			After being shut in 12 hours, well flowed 7 barrels oil in 1 1/2 hours - died. Swabbed 154 barrels water and 48 barrels oil in 10 1/2 hours. Fluid level 2000', salinity 175,000-182,000 ppm Na Cl.
1-7			Well flowed 4 barrels oil and died in 9 3/4 hours. Swabbed 150 barrels water, 46 barrels oil.
1-8			Flowed 6 barrels oil and died. Swabbed 4 hours, 30 barrels oil, 44 barrels water. Blanked off lower zone (5597-5625) opened upper zone (5522-5597) Swabbed 6 hours, 70 barrels water, 41 barrels gas and oil cut mud. Fluid level 5000'.
1-9			After 12 hours shut in, fluid level 3500'. Swabbed 25 barrels water, 5 barrels oil in 3 hours, then 33 barrels oil, no water next 8 hours, fluid level 5000', CP 160.
1-10			Swabbed 20 barrels oil and 2 barrels water. Blanked off upper zone (5522-5597) opened lower zone (5597-5625). Flowed 9 bbls. oil and died. Swabbed 6 hours, 31 barrels oil and 70 barrels water.
1-11			Swabbed and flowed 6 1/2 hours 94 barrels oil and 65 barrels water. Well began to flow in 4 hours, flowed 65 barrels oil and 19 barrels water.
1-12			After 12 hours shut in (TP 460, CP 560) open well, flowed 9 bbls. oil and died. Swabbed and flowed 27 barrels oil and 43 barrels water in 4 hours. Well began to flow, in 2 hours flowed 28 bbls. oil and 10 bbls. water, 1" choke, TP 0-40. Flowed well to sump for 2 hours, estimated 20 bbls. oil and 8 bbls. water. Turned into separator (25 psi) and flowed 22 bbls. gross in 4 3/4 hours and died, TP 40, CP 580.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZES				

B. R. Robinson

SIGNED

SHELL OIL COMPANY

North Desert Creek

WELL NO. 44-1

Ratherford
(FIELD)

DRILLING REPORT
FOR PERIOD ENDING

1

San Juan, Utah
(COUNTY)

3-23-48

(SECTION OR LEASE)
T 17 S., R 23 E.
(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
1-13	5692	TD	Well dead.
1-14	5625	PBTD	Ran swab once, well started to flow in 20 hours, flowed 157 bbls. water and 188 bbls. oil, 1" choke, TP 40.
1-15			Flowed 24 hours, 396 bbls. gross, 10-15% cut, 1" choke.
1-16			Flowed 24 hours, 413 bbls. gross, 351 bbls. oil, 15% cut, TP 40, 6 1/4" choke. (cut not decreasing, produced fluid is heavily emulsified.)
1-17			Flowed 11 1/2 hours, 174 bbls. gross, 148 bbls. oil, 15% cut, 1" choke, TP 40. (Lower Zone)
2-28			Opened upper zone (5522-5597) Flowed 80 bbls. oil in 5 hours - died.
3-5			Loaded hole with oil. Washed interval 5522-5597 with 200 gallons mud acid. Injected 2000 gallons XFW acid and 2000 gallons Jel X-100 acid flushed with 128 bbls. Maximum pressure 3500 psi, minimum pressure 2500 psi. Average rate 2.6 bbls./minute. Final pressure 3200 psi. Bled to 1200 psi in 4 hours. Opened well on 32/64" bean. Flowed 28 bbls. and died.
3-7			Rigged up swabbing unit. Swabbed to natural flow. Flowed 23 1/4 hours, approximately 30-40 bbls./hour. Ran pressure bomb - shut well in.
3-18			Moved in completion rig. Killed well, pulled tubing.
3-19			Pulled tubing and Lynes packer. Ran tubing to 5624. Swabbed 2 1/2 hours. Recovered 2 bbls. oil and 67 bbls. water.
3-20			Swabbed 10 hours, 216 bbls. water, 82 bbls. oil.
3-21			Shut in 13 hours (TP 240, CP 450). Flowed 2 bbls. oil and died. Swabbed 8 1/2 hours, 172 bbls. water, 87 bbls. oil.
3-22 to 3-23			Shut in.

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZES				

10
/MA

B. B. Robinson
SIGNED

Ratherford

(FIELD)

San Juan, Utah

(COUNTY)

DRILLING REPORT

FOR PERIOD ENDING

3-30-58

1

(SECTION OR LEASE)

T 11 S., R 23 E.

(TOWNSHIP OR RANGE)

DAY	DEPTHS		REMARKS
	FROM	TO	
3-24	5631 (CORRECTED)	PSTD	Bled well down. Measured tubing out of hole, found TD at 5631'. Checked TD with line - 5631'. Plugged well back 8' with shoot-n-squeeze tool. Stuck tool (on 3rd run) and pulled out of rope socket.
3-25 to 3-26			Made up overshot with jars and bumper sub. Ran in, engaged fish pulled 4000#, fish came loose, recovered bailer (tool had fired but cement failed to go out of bailer, causing packer at top of tool to remain in expanded position).
3-27			Cleaned 5' of cavings off top of cement, plugged back with Welex shoot-n-squeeze tool at 5619'.
3-28			Ran tubing to 5617', perforations 5582-5586. Swabbed 5 hours, 109 bbls. water, 50 bbls. oil, well began to flow, flowed 1 3/4 hrs., 13 bbls. oil and 2 bbls. water - died.
3-29			Swabbed 2 hours, 24 bbls. oil and 9 bbls. water, well began to flow, flowed to pits 2 1/2 hours and 68 bbls. oil, 6 bbls. water. Flowed (9 hour test) 96 bbls. oil and 3 bbls. water, 48/64" bean, GFR 867, TP 120, CP 370.
3-30			INITIAL PRODUCTION Flowing, 258 B/D gross, 255 B/D oil, cut 1.2%, 227 MCF/D gas, GOR 890, 48/64" bean, TP 80, CP 640. Completed 3-30-58.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12 1/4"	0	1507	8 5/8"	1503'
7 7/8"	1507	5535	5 1/2"	5522'
4 3/4"	5535	5692		
DRILL PIPE SIZES			4 1/2"	DRILL TUBING

B. B. Robinson

SIGNED

SHELL OIL COMPANY

WEEK ENDING December 16, 57

CORE RECORD

AREA OR FIELD North Desert Cree

CORE FROM 5535 TO 5552

COMPANY Shell

CORES EXAMINED BY Gary Sego

LEASE AND WELL NO. NDC 44-1

NO.	FROM	TO	RECOV- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIO OIL-GA
							CORE OR D
1	5535	5552	17'				
	5535	5536	1'	<u>Limestone</u> , brown, III VFA.			
	5536	5538	2'	<u>Limestone</u> , brown, III VF-FA+B ₅ +C _{tr} , oil stain.			
	5538	5539	1'	<u>Limestone</u> , brown, III VFA.			
	5539	5540	1'	<u>Limestone</u> , brown, I/III VFA, fossil fragments.			
	5540	5541	1'	<u>Limestone</u> , brown, I VFA, oolitic.			
	5541	5542	1'	<u>Limestone</u> , tan, as above.			
	5542	5543	1'	<u>Limestone</u> , tan, I VFA, fossil fragments.			
	5543	5544	1'	<u>Limestone</u> , gray, III VFA, abundant crinoid stems.			
	5544	5545	1'	<u>Limestone</u> , tan, as above, slight oil staining.			
	5546	5548	2'	<u>Limestone</u> , brown, III VFA+B ₂ , oil stain, calcite healed fractures, fossil fragments.			
	5548	5549	1'	<u>Limestone</u> , brown, III VFA+B ₂ , oil stain.			
5549	5551	2'	<u>Limestone</u> , dolomitic, tan, III VFA+B ₂ ,				

SHELL OIL COMPANY

WEEK ENDING December 16, 1957

CORE RECORD

AREA OR FIELD Rutherford Field

CORE FROM 5551 TO 5569

COMPANY Shell

CORES EXAMINED BY Gary Segó

LEASE AND WELL NO. NDC 44-1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DI
2	5551	5569	17'				
	5551	5552	1'	<u>Limestone</u> , dolomitic, brown, III VFA, slight oil staining.			
	5552	5555	3'	<u>Dolomite</u> , brown, III VF+FA+B ₂ , oil staining.			
	5555	5556	1'	<u>Limestone</u> , light gray, I VFA, calcite healed fractures, interbedded shales.			
	5556	5557	1'	<u>Limestone</u> , light gray, I VFA+B ₃ +C ₄ , Foraminifera.			
	5557	5558	1'	<u>Limestone</u> , gray, I VFAC ₂ , oolitic.			
	5558	5560	2'	<u>Limestone</u> , gray, I/III VF-FA+B ₂ +C ₅ , oolitic, fossil fragments.			
	5560	5566	6'	<u>Limestone</u> , gray, III VF-FA+B ₅ +C ₈ , oil stained, fossil fragments.			
	5566	5567	1'	<u>Limestone</u> , light gray, III VFA.			
	5567	5568	1'	<u>Limestone</u> , light gray, I VFA, stylolitic, foraminifera.			
	5568	5569	1'	<u>Limestone</u> , light gray, I VFA, abundant fossils.			

SHELL OIL COMPANY

WEEK ENDING 12-16-57

AREA OR FIELD Ratherford Field

CORE FROM 5569 TO 5586

CORE RECORD

COMPANY Shell

CORES EXAMINED BY Gary Sego

LEASE AND WELL NO. NDC 44-1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL - GAS
							CORE OR DI
3	5569	5586	17'				
	5569	5571	2'	<u>Limestone</u> , light gray, I VFA, stylolitic.			
	5571	5577	6'	<u>Limestone</u> , gray, I VFA.			
	5577	5578	1'	<u>Limestone</u> , dolomitic, brown, III/I VFA+B ₅ +C ₂ , oil stain.			
	5578	5579	1'	<u>Limestone</u> , brown, III/I VFA+B _{tr} , slight oil staining.			
	5579	5580	1'	<u>Dolomite</u> , brown, VFA+B ₂ , slight oil staining.			
	5580	5581	1'	<u>Limestone</u> , brown, III VFA+B ₂ , oil stains.			
	5581	5582	1'	<u>Limestone</u> , brown, III/I VFA+B ₂ , argillaceous, crinoid stems.			
	5582	5584	2'	<u>Limestone</u> , dolomitic, I VFA+C ₂ , argillaceous, crinoid stems, slight oil staining.			
	5584	5585	1'	<u>Limestone</u> , gray III/I VFA+B ₂ , vertical fracturing.			
	5585	5586	1'	<u>Limestone</u> , dolomitic, brown, III VFA+B ₂ , abundant fossils.			

SHELL OIL COMPANY

WEEK ENDING 12-16-57

AREA OR FIELD Ratherford Field

CORE FROM 5586 TO 5602

CORE RECORD

COMPANY Shell

CORES EXAMINED BY Gary Sego

LEASE AND WELL NO. NDC 44-1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DIT
4	5586	5602	16'				
	5586	5587	1'	<u>Limestone</u> , gray, I VFA, interbedded shales.			
	5587	5590	3'	<u>Limestone</u> , gray, I VFA.			
	5590	5591	1'	<u>Limestone</u> , gray, I VFA, argillaceous, crinoid stems.			
	5591	5593	2'	<u>Limestone</u> , as above, stylolitic.			
	5593	5594	1'	<u>Limestone</u> , gray, I VFA, crinoid stems, fossil fragments.			
	5594	5595	1'	<u>Limestone</u> , gray, I VFA.			
	5595	5597	2'	<u>Limestone</u> , gray, I VFA, calcite healed fractures, crinoid fragments.			
	5597	5598	1'	<u>Limestone</u> , gray, I VFA, stylolitic.			
	5598	5599	1'	<u>Limestone</u> , gray, I VFA.			
	5599	5600	1'	<u>Limestone</u> , gray, I VF-FA.			
	5600	5601	1'	<u>Limestone</u> , gray, I VFA.			
	5601	5602	1'	<u>Limestone</u> , tan, III VFA+B ₃ , fossil fragments, oil stain.			

SHELL OIL COMPANY

WEEK ENDING 12-16-57

CORE RECORD

AREA OR FIELD Ratherford Field

CORE FROM 5602 TO 5620

COMPANY Shell

CORES EXAMINED BY Gary Segó

LEASE AND WELL NO. NDC 44-1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DIT
5	5602	5620	18'				
	5602	5604	2'	<u>Limestone</u> , tan, III VFA+B ₃ , fossil fragments, oil stain.			
	5604	5605	1'	<u>Limestone</u> , tan, III VF-FA+B ₅ +C ₃ , oil stain.			
	5605	5606	1'	<u>Limestone</u> , brown III/I VF-FA+B ₃ +C ₂ , oil stain.			
	5606	5607	1'	<u>Limestone</u> , brown, III VF-FA+B ₃ +C ₂ , oil stain.			
	5607	5608	1'	<u>Limestone</u> , brown, I VF-FA+B ₂ +C ₈ .			
	5608	5609	1'	<u>Limestone</u> , brown, I VF-FA+B ₅ +C ₈ , oil stain.			
	5609	5610	1'	<u>Limestone</u> , brown, III/I VF-FA+B ₃ +C ₈ , oil stain.			
	5610	5612	2'	<u>Limestone</u> , brown, III/I VF-FA+B ₂ , oil stain.			
	5612	5614	2'	<u>Limestone</u> , brown, III/I VF-FA+B ₃ +C ₂ , oil stain, abundant fossils.			
	5614	5615	1'	<u>Limestone</u> , gray, III VF-FA+B ₂ +C ₅ .			
	5615	5617	2'	<u>Limestone</u> , gray, I VF-FA+B ₂ +C ₄ , fossil fragments.			
	5617	5618	1'	<u>Limestone</u> , gray, I/III VF-FA+B ₂ +C ₃ +D ₅ .			
	5618	5619	1'	<u>Limestone</u> , gray, I VF-FA+B ₂ +C ₃ , oil stain.			
	5619	5620	1'	<u>Limestone</u> , gray, III/I VF-FA-B ₅ +C ₈ , oil stain, fossil fragments.			

SHELL OIL COMPANY

WEEK ENDING 12-16-57

CORE RECORD

AREA OR FIELD Ratherford Field

CORE FROM 5620 TO 5638

COMPANY Shell

CORES EXAMINED BY Gary Sego

LEASE AND WELL NO. NDC 44-1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DI
6	5620	5638	18'				
	5620	5621	1'	<u>Limestone</u> , gray, I VF-FA.			
	5621	5622	1'	<u>Limestone</u> , gray, I VFA.			
	5622	5623	1'	<u>Limestone</u> , gray, I VFA, interbedded black shales.			
	5623	5624	1'	<u>Limestone</u> , gray, I VFA.			
	5624	5625	1'	<u>Limestone</u> , gray, I VFA+C ₃ , slight oil stain.			
	5625	5627	1'	<u>Limestone</u> , gray, I VFA+C ₈ +D ₃ , oil stain.			
	5627	5628	1'	<u>Limestone</u> , gray, I VF-FA+C ₂ , slight oil stain, stylolite.			
	5628	5632	4'	<u>Limestone</u> , light gray, I VFA, stylolitic.			
	5632	5633	1'	<u>Limestone</u> , gray, I VF-FA+C ₅ +D ₂ , slight oil stain.			
	5633	5637	4'	<u>Limestone</u> , gray, I VF-FA+D ₁₀ .			
	5637	5638	1'	<u>Limestone</u> , gray, I VF-FA+C ₅ +D ₂ , oil stain.			

SHELL OIL COMPANY

WEEK ENDING 12-16-57

AREA OR FIELD Ratherford Field

CORE FROM 5638 TO 5646

CORE RECORD

COMPANY Shell

CORES EXAMINED BY Gary Sego

LEASE AND WELL NO. NDC 44-1

NO.	FROM	TO	RECOV-ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATING
							OIL-GAS
							CORE OR D
7	5638	5646	18'				
	5638	5639	1'	<u>Limestone</u> , gray, I VF-FA+D ₃ , slight oil stain.			
	5639	5640	1'	<u>Limestone</u> , gray, I VF-FA+D ₈ .			
	5640	5641	1'	<u>Limestone</u> , light gray, I VFA+D ₁₀ .			
	5641	5642	1'	<u>Limestone</u> , gray, I VFA.			
	5642	5643	1'	<u>Dolomite</u> , tan, III VFA.			
	5643	5646	3'	<u>Dolomite</u> , tan, III VFA, stylolitic.			
	5646	5648	2'	<u>Dolomite</u> , tan, III/I VFA.			
	5648	5649	1'	<u>Dolomite</u> , brown, I VFA, slight oil staining.			
	5649	5650	1'	<u>Dolomite</u> , gray, I VFA.			
	5650	5651	1'	<u>Limestone</u> , gray, I VFA, stylolitic.			
	5651	5653	2'	<u>Limestone</u> , gray, I VFA.			
	5653	5656	3'	<u>Limestone</u> , gray, I VFA, stylolitic.			

SHELL OIL COMPANY

WEEK ENDING 12-16-57

CORE RECORD

AREA OR FIELD Ratherford Field

CORE FROM 5656 TO 5674

COMPANY Shell

CORES EXAMINED BY Gary Sego

LEASE AND WELL NO. NDC 44-1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
CORE OR D							
8	5656	5674	18'				
	5656	5657	1'	<u>Limestone</u> , gray, I VFA, interbedded black shale.			
	5657	5658	1'	<u>Limestone</u> , gray - brown, III VFA.			
	5658	5659	1'	<u>Dolomite</u> , gray - brown, III VFA.			
	5659	5660	1'	<u>Limestone</u> , dolomitic, gray - brown, III VFA, slight oil stain.			
	5660	5661	1'	<u>Dolomite</u> , brown, I VFA.			
	5661	5662	1'	<u>Limestone</u> , dolomitic, gray, I VFA.			
	5662	5663	1'	<u>Dolomite</u> , tan, I/III VFA.			
	5663	5664	1'	<u>Limestone</u> , dolomitic, gray, I VFA.			
	5564	5567	3'	<u>Limestone</u> , gray, I VFA, stylolitic.			
	5667	5668	1'	<u>Limestone</u> , gray - brown, I VFA.			
	5668	5669	1'	<u>Limestone</u> , gray, I VFA, stylolitic.			
	5669	5670	1'	<u>Limestone</u> , gray, I VFA, fossil fragments.			
	5670	5671	1'	<u>Limestone</u> , gray, I VF-FA+C ₂ .			
	5671	5672	1'	<u>Limestone</u> , light gray, I VFA+C ₂ , Stylolitic.			
	5672	5674	2'	<u>Limestone</u> , gray, I VFA, fossil fragments.			

SHELL OIL COMPANY

WEEK ENDING 12-16-57

AREA OR FIELD Ratherford Field

CORE FROM 5674 TO 5692

CORE RECORD

COMPANY Shell

CORES EXAMINED BY Gary Sego

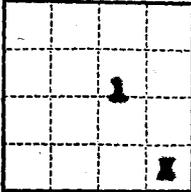
LEASE AND WELL NO. NDC 44-1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATI
							OIL-G
							CORE OR I
9	5674	5692	18'	<u>Dolomite</u> , brown, I/III VFA+B ₂ , slight oil stain. <u>Limestone</u> , brown, I VFA. <u>Limestone</u> , as above, stylolite. <u>Dolomite</u> , brown, III VFA+B ₃ , slight oil staining. <u>Dolomite</u> , brown, III VFA, fossil fragments. <u>Shale</u> , black.			
	5674	5675	1'				
	5675	5677	2'				
	5677	5678	1'				
	5678	5679	1'				
	5679	5685	6'				
	5685	5692	7'				

RLS

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal Lands
Lease No. 14-20-60-241

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.....			

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

March 17, 19 60

North Desert Creek
Well No. 44-2 is located 660 ft. from [N] line and 661 ft. from [E] line of sec. 1

24 SE 1 (1/4 Sec. and Sec. No.) 418 (Twp.) 23E (Range) 51M (Meridian)
Rutherford (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the Well above sea level is 4661 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 5692, PTD 5619'.
Casing - 5-1/2" to 5523'.
Completion: 3-30-58, flowing 255 B/D oil from open hole interval 5523-5619'. Production as of 3-1-60 pumping 34 B/D, out 19% - Cumulative 47,500 bbls.

- Proposed Work:
1. Pull rods and tubing.
 2. Perforate four 1/2" holes/ft. 5455-67, 5470-73, 5476-82, 5485-90.
 3. Set retrievable bridge plug at 5500'±.
 4. Acidize with 1,000 gal. regular acid and 4,000 gal. retarded acid.

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

Company Shell Oil Company
Address Post Office box 158
Farmington, New Mexico
Original signed by B. W. SHEPARD
By B. W. Shepard
Title Exploitation Engineer

5

5. Stab and recover acid water.
6. Retrieve bridge plug.
7. Return well to production and establish rate.

096187

FM

DRILLING REPORT
 FOR PERIOD ENDING

Rutherford
 (FIELD)
San Juan, Utah
 (COUNTY)

3-29-60

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

DAY	DEPTHS		REMARKS
	FROM	TO	
3-22	5692		Pulled rods.
	TD		
3-23	5631		Pulled tubing. Started in with bridge plug on tubing. Engine on pulling rig failed.
	Rd		
3-24			Finished repairing rig engine.
3-25			Ran Baker bridge plug on tubing. Unable to set. Pushed plug into open hole. Pulled and recovered plug.
3-26			Attempted to set plug. Would not set. Pulled leaving plug in hole. Retrieved with wire line.
3-27			Ran bridge plug on wire line and set at 5513'. Filled hole with oil and perf. 4-1/2 hpf 5455-67, 5470-73, 5476-82, 5485-90. Ran packer @ 5445' w/58' tail w/pressure bomb in tail @ 5499'.
3-28			Spotted 75 gal mud acid over perforations. Closed surface valve and ports on packer. Let stand 2 hrs. Reversed out mud acid. Set packer and pumped in 1000 gal. XFW and 4000 gal. Jel X100, over-flushed w/4000 gal. oil. Initial press. 2000 psi; after 126 gal. acid away in 1 hr. formation broke down and took remaining acid at 215 gal./min. rate. Press. 15 min. after job: 200 psi.
3-29			After 5 swab runs well began to flow. Laid down rods and put well in test.
4-2-3			Killed well, pulled packer, retrieved pressure bomb. Reran tubing and swabbed to flowing production.
			RECOMPLETED INITIAL PRODUCTION Flowing 802 B/D gross, 791 B/D oil, 1.4% cut, 379 MCF/D gas, GOR 480, 32/64" choke, TP 260, CPO, Recompleted 3-29-60.

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12 1/4"	0	1507	8-5/8"	1503'
7-7/8"	1507	5535	5-1/2"	5522'
4-3/4"	5535	5692		
DRILL PIPE SIZE:		4-1/2"		

DEC 15 1960

B. W. Shepard

SIGNED

aws

Form 9-381b
(April 1952)

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

	1	
		X

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-89-603-847

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 Recompletion</u>	X

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

April 1, 19 60

North Desert Creek

Well No. 44-1 is located 660 ft. from S line and 661 ft. from E line of sec. 1

SE SE 1

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

11S

(Twp.)

23E

(Range)

SLM

(Meridian)

Rutherford

(Field)

San Juan

(County or Subdivision)

Utah

(State or Territory)

Kelly Bushing

The elevation of the ~~shock floor~~ above sea level is 4661 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)

- 3-23-60 Pulled rods and tubing.
- 3-27-60 Set bridge plug at 5513'. Perforated four 1/2" holes/ft. 5455-67, 5470-73, 5476-82, 5485-90.
- 3-28-60 Acidized with 75 gal. mud acid, 1000 gal. regular and 4000 gal. retarded acid.
- 3-29-60 After 5 swab runs well began to flow. ~~RECOMPLETED~~ RECOMPLETED INITIAL PRODUCTION - Flowing, 802 B/D gross, 791 B/D oil, 1.1% cut 379 MCF/D gas, COP 480, 32/64" choke, TP 260, CPO. Recompleted 3-29-60.

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 153

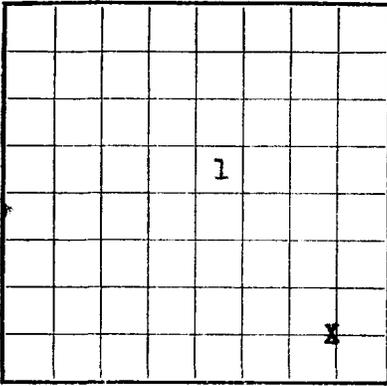
Farmington, New Mexico

By H. W. Shepard

Title Exploitation Engineer

Handwritten mark

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. 44-1 Sec. 1 T. 41S R. 23E Meridian S.I.P.M. County San Juan
Location 660 ft. N. of S. Line and 661 ft. E. of E. Line of 1 Elevation 4661 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 E. W. STUBBINS
Signed _____

Date December 13, 1960 Title Exploitation Engineer

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

Commenced drilling November 11, 1957 Finished drilling December 11, 1957

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 5522 to 5692 (open hole) No. 4, from _____ to _____
No. 2, from 5155 gross to 5190 (perfs) 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>20</u>	<u>4</u>	<u>Amalgam</u>	<u>5522</u>	<u>Open hole</u>	<u>5522</u>	<u>5522</u>	<u>5692</u>	<u>Production</u>

HISTORY OF OIL OR GAS WELL
10-43004-5 U. S. GOVERNMENT PRINTING OFFICE

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>1503</u>	<u>500 Diamix + 200</u>	<u>Displacement</u>	<u>-</u>	<u>-</u>
<u>5-7/8</u>	<u>5522</u>	<u>200</u>	<u>"</u>	<u>-</u>	<u>-</u>

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

FOLD MARK

FOLD MARK

6-5/8	1503	500	200	Displacement		
5-7/2	5522			"		

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 4692 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

December 13, 1960 Put to producing 1961 March 29, 1960
 The production for the first 24 hours was 802 barrels of fluid of which 98.6 % was oil; _____ %
 emulsion; 1.4 % water; and _____ % sediment. Gravity, °Bé. 41.1 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

V. I. Metz, Driller Shell Rig #10
E. T. Lawson, Driller R. Loney, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2327	2397	70	Shinarump
2397	2473	76	Moenkopi
2473	4531	2058	Cutler
4531	5505	974	Hermosa
5505	-	-	Paradox

DEC 13 1960

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

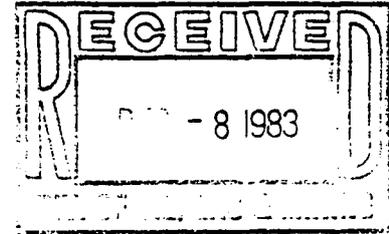
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

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

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

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

*100 wells
1-44*



Org. & 3-BLM

- 1-The Navajo Nation
- 1-Mary Wiley Black
- 1-Lawrence E. Brock
- 1-Chevron USA
- 1-Ralph Faxel
- 1-Royal Hogan
- 1-W. O. Keller
- 1-Dee Kelly Corp.

- 1-Robert Klabzuba
- 1-Micheal J. Moncrief
- 1-Richard B. Moncrief
- 1-Lee W. Moncrief
- 1-Mary H. Morgan
- 1-W. A. Moncrief
- 1-W. A. Moncrief, Jr.
- 1-L. F. Peterson

- 1-Shell Oil Co.
- 1-Southland Royalty Co.
- 1-Superior Oil Co.
- 1-Leroy Shave
- 1-Texaco, Inc.
- 1-Wade Wiley, Jr.
- 1-Edwin W. Word, Jr.
- 1-File

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

SIGNED A. E. Stuart TITLE Area Manager

DATE 12/6/83

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side.

<u>WELL NO.</u>	<u>WELL LOCATION</u>	<u>API NO.</u>	<u>STATUS</u>
29-34	SW SE Sec. 29-T41S-R24E	43-037-15340	Act.
30-23	NE SW Sec. 30-T41S-R24E	43-037-15341	SI
30-32	SW NE Sec. 30-T41S-R24E	43-037-15342	SI
32-41	NE NE Sec. 32-T41S-R24E	43-037-15344	SI
1-13	NW SW Sec. 1-T41S-R24E	43-037-15838	Act.
1-24	SE SW Sec. 1-T41S-R24E	43-037-15839	Act.
1-44	SE SE Sec. 1-T41S-R24E 23	43-037-15840	Act.
6-14	SW SW Sec. 6-T41S-R24E	43-037-15894	Act.
7-12	SW NW Sec. 7-T41S-R24E	43-037-15985	SI
7-14	SW SW Sec. 7-T41S-R24E	43-037-15986	SI
7-23	NE SW Sec. 7-T41S-R24E	43-037-15987	SI
7-32	SW NE Sec. 7-T41S-R24E	43-037-15988	SI
7-34	SW SE Sec. 7-T41S-R24E	43-037-15989	Act.
11-42	SE NE Sec. 11-T41S-R23E	43-037-15841	Act.
11-44	SE SE Sec. 11-T41S-R23E	43-037-15842	Act.
12-11	NW NW Sec. 12-T41S-R23E	43-037-15843	Act.
12-14	SW SW Sec. 12-T41S-R23E	43-037-15844	Act.
12-22	SE NW Sec. 12-T41S-R23E	43-037-15845	Act.
12-23	NE SW Sec. 12-T41S-R23E	43-037-15846	Act.
12-31	NW NE Sec. 12-T41S-R23E	43-037-15847	Act.
12-33	NW SE Sec. 12-T41S-R23E	43-037-15848	Act.
12-41	NE NE Sec. 12-T41S-R23E	43-037-15849	Act.
12-42	SE NE Sec. 12-T41S-R23E	43-037-15850	Act.
13-13	NW SW Sec. 13-T41S-R23E	43-037-15851	Act.
13-22	SE NW Sec. 13-T41S-R23E	43-037-15852	Act.
13-24	SE SW Sec. 13-T41S-R23E	43-037-15853	Act.
13-31	NW NE Sec. 13-T41S-R23E	43-037-15854	Act.
13-33	NW SE Sec. 13-T41S-R23E	43-037-15855	Act.
13-42	SE NE Sec. 13-T41S-R23E	43-037-15857	Act.
14-32	SW NE Sec. 14-T41S-R23E	43-037-15858	Act.
14-33	NW SE Sec. 14-T41S-R23E	43-037-15859	SI
14-42	SE NE Sec. 14-T41S-R23E	43-037-15860	Act.
24-11	NW NW Sec. 24-T41S-R23E	43-037-15861	SI
24-31	NW NE Sec. 24-T41S-R23E	43-037-15862	Act.
E11-14	SW SW Sec. 11-T41S-R24E	43-037-16167	Act.
3-12	SW NW Sec. 3-T41S-R24E	43-037-15620	Act.
3-14	SW SW Sec. 3-T41S-R24E	43-037-15124	Act.
3-23	NE SW Sec. 3-T41S-R24E	43-037-15125	SI
3-32	SW NE Sec. 3-T41S-R24E	43-037-15621	SI
3-44	SE SE Sec. 3-T41S-R24E	43-037-15031	Act.
4-14	SW SW Sec. 4-T41S-R24E	43-037-16163	Act.
4-22	SE NW Sec. 4-T41S-R24E	43-037-15622	SI
4-32	SW NE Sec. 4-T41S-R24E	43-037-15623	SI
4-34	SW SE Sec. 4-T41S-R24E	43-037-16164	Act.
4-42	SE NE Sec. 4-T41S-R24E	43-037-15624	SI
5-34	SW SE Sec. 5-T41S-R24E	43-037-15983	SI
8-12	SW NW Sec. 8-T41S-R24E	43-037-15991	Act.
8-14	SW SW Sec. 8-T41S-R24E	43-037-15992	Act.
8-21	NE NW Sec. 8-T41S-R24E	43-037-15993	Act.
8-23	NE SW Sec. 8-T41S-R24E	43-037-15994	Act.
8-32	SW NE Sec. 8-T41S-R24E	43-037-15995	SI

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.

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

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

IN THE MATTER OF THE APPLICATION OF
Phillips Petroleum Company
 ADDRESS P. O. Box 2920
Casper, WY ZIP 82602
 INDIVIDUAL PARTNERSHIP CORPORATION
 FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
 INJECT FLUID INTO THE 1W44 WELL
 SEC. 1 TWP. 41S 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 I-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 I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name Ratherford Unit	Well No. <u>1W44</u>	Field Greater Aneth	County San Juan
Location of Enhanced Recovery Injection or Disposal Well <u>1W44</u> Sec. <u>1</u> Twp. <u>41S</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</u> <u>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) Desert Creek Paradox I & II/ San Juan River	Geologic Name(s) and Depth of Source(s) Desert Creek (<u>5515</u>) San Juan River (Surface)		
Geologic Name of Injection Zone Desert Creek Zone I	Depth of Injection Interval <u>5515</u> to <u>5602</u>		
a. Top of the Perforated Interval: <u>5515</u>	b. Base of Fresh Water: <u>1550</u>	c. Intervening Thickness (a minus b) <u>3965</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES NO material, attachment #4			
Lithology of Intervening Zones See previously submitted material, attachment #1			
Injection Rates and Pressures Maximum <u>500</u> B/D Not to exceed approximately <u>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
 County of Natrona

Phillips Petroleum Company
 Applicant

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.

DONALD L. HUDSON
 County of Natrona State of Wyoming
 My Commission Expires November 3, 1986

Subscribed and sworn to before me this 21st day of February, 19 86
Donald L. Hudson
 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	8 5/8"	1503'	700SX	Surface	Returns
Intermediate	none				
Production	5 1/2"	5522'	200SX	4826	Calculated
Tubing	2-3/8 or 2-7/8		Name - Type - Depth of Tubing Packer (5412) Baker type AB Tension Pkr or Similar		
PB Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval	Depth - Base of Inj. Interval		
5602	Desert Creek Zone 1	5522	5602		

FIELD: GREATER ANETH
RESERVOIR: Deso Creek Zone I

WI COMPLETION: Injector /
PRESENT STATUS: Conversion

RKB 4660.9
GL 4650.1

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

Well # 1W44

1503'

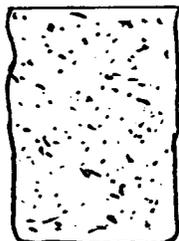
PRODUCTION CASING: 5 1/2"
14# J-55

PERFORATIONS: _____
open hole 5322 - 5602

PACKER: Baker Model AB
Tension Type pkr set at
approx 5422

5322'

PBTD: 5602
OTD: 5631



Phillips Petroleum Company



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
MARJORIE L. ANDERSON
Administrative Assistant

AFFIDAVIT OF PUBLICATION

082902

I, Joyce Martin, ng 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 _____

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

X #1-44 Sec. 1, T41S, R23E
#1-24 Sec. 1, T41S, R23E
#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.

Signature

Joyce A Martin
Publisher

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

Freud K Adams
Notary Public
Residing at Monticello, Utah

My commission expires December 2, 1987

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 14 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 2970, Casper, Wyoming, 82402 has requested administrative approval from the Division to convert the following listed wells to enhanced recovery water injection wells:

RATHERFORD UNIT

Well	Location
01-44	Sec. 1, T41S, R23E
01-24	Sec. 1, T41S, R23E
01-13	Sec. 1, T41S, R23E
06-14	Sec. 4, T41S, R24E
07-34	Sec. 7, T41S, R24E
07-32	Sec. 7, T41S, R24E
07-22	Sec. 7, T41S, R24E
07-14	Sec. 7, T41S, R24E
07-12	Sec. 7, T41S, R24E
08-14	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, J 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
H-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 2nd

10 copies

x Cheryl Gierloff
Advertising Clerk

Subscribed and sworn to before me this day of

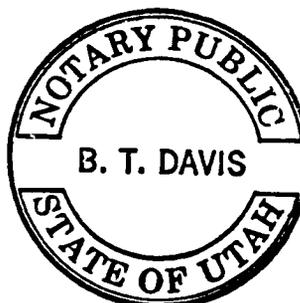
March A.D. 1986

B. T. Davis

Notary Public

My Commission Expires

March 1, 1988





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

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

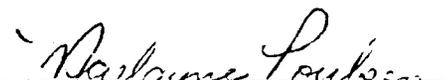
Utah State Department of Health
Water Pollution Control
Attn: Loren Morton
4241 State Office Building
Salt Lake City, Utah 84114

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

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	
2. NAME OF OPERATOR Phillips Petroleum Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR P.O. Box 2920, Casper, WY 82602		7. UNIT AGREEMENT 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 660' FSL & 661' FEL (SE SE)		8. FARM OR LEASE NAME Ratherford Unit	
14. PERMIT NO. 43-037-15840		9. WELL NO. 1-44	
15. ELEVATIONS (Show whether DP, ST, GR, etc.) 4661' RKB		10. FIELD AND POOL, OR WILDCAT Greater Aneth	
		11. SEC., T., R., M., OR BLK. 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 <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 checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) Convert to Water Injection <input checked="" 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.)*

It is proposed to convert Ratherford Unit #1-44, an Ismay (cased hole completion) and Zone I & II (open hole completion) to a Zone I (open hole completion) water injection well. After isolating the Ismay & Zone II, Zone I will be acidized with approximately 5100 gallons of 28% HCl Acid and the well will be placed on injection.

Verbal approval has been received from the BLM (Jim Lavato-8/12/86) to perform the subject work.

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, Utah
- 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: 11/3/86
 BY: [Signature]
 APPROVAL LETTER 4/4/86

NOV 06 1986
 DIVISION OF OIL, GAS & MINING

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

SIGNED D. C. Gill TITLE Area Manager DATE November 3, 1986

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



3 Triant Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

CC: GLH
(DTS 2-3-87)

JAN 30 1987

PRODUCING ENTITY ACTION

DIVISION OF
OIL, GAS & MINING

Operator Name Phillips Petroleum Company
 Address P. O. Box 2920
 City Casper State Wyoming Zip 82604
 Utah Account No. N0772

Authorized Signature Meredith K. Widaker
 Effective Date December, 1986 Telephone (307) 237-3791

ACTION CODE

- A Establish new entity for new well(s).
- B Add new well(s) to existing entity.
- C Delete well(s) from existing entity.
- D Establish new entity for well(s) being deleted from existing entity.
- E Change well(s) from one entity to another existing entity.
- F Other. (Specify using attachments if necessary.)

BRACKET WELLS TO BE GROUPED TOGETHER.

(Use black ink or typewriter ribbon.)

Action Code	Current Entity No.	New Entity No.	API No.	Well Name	Well Location				Producing Formation	
					Sec.	T	R	Q/Q		County
C	06280		4303715728	Ratherford Unit Well #17-23	17	41S	24E	NESW	San Juan	PRDX

Explanation of action:

Well converted to a water injection well effective 11/20/86.

C	06280		4303730244	Ratherford Unit Well #18-23	18	41S	24E	NESW	San Juan	DSCR
---	-------	--	------------	-----------------------------	----	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 11/17/86

C	06280		4303715840	Ratherford Unit Well #1-44 ✓	1	41S	23E	SFSE	San Juan	PRDX
---	-------	--	------------	------------------------------	---	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 12/15/86

C	06280		4303715842	Ratherford Unit Well #11-44 ✓	11	41S	23E	SFSE	San Juan	PRDX
---	-------	--	------------	-------------------------------	----	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 12/5/86



3 Inrad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

CC: *GLH*
(DTS 2-3-87)

DIVISION OF
OIL GAS & MINING

PRODUCING ENTITY ACTION

Operator Name Phillips Petroleum Company
 Address P. O. Box 2920
 City Casper State Wyoming Zip 82602
 Utah Account No. N0772

Authorized Signature *Meredith K. Widiker*
 Effective Date December, 1986 Telephone (307) 237-3791

ACTION CODE

- A Establish new entity for new well(s).
- B Add new well(s) to existing entity.
- C Delete well(s) from existing entity.
- D Establish new entity for well(s) being deleted from existing entity.
- E Change well(s) from one entity to another existing entity.
- F Other. (Specify using attachments if necessary.)

BRACKET WELLS TO BE GROUPED TOGETHER.

(Use black ink or typewriter ribbon.)

Action Code	Current Entity No.	New Entity No.	API No.	Well Name	Well Location					Producing Formation
					Sec.	T	R	Q/Q	County	
C	06280		4303715845	Ratherford Unit Well #12-22 ✓	12	41S	23E	SENW	San Juan	PRDX

Explanation of action:

Well converted to a water injection well effective 12/30/86.

C	06280		4303715850	Ratherford Unit Well #12-42 ✓	12	41S	23E	SENE	San Juan	DSCR
---	-------	--	------------	-------------------------------	----	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 12/23/86.

C	06280		4303715726	Ratherford Unit Well #17-12 ✓	17	41S	24E	SWNW	San Juan	PRDX
---	-------	--	------------	-------------------------------	----	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 12/12/86.

C	06280		4303715862	Ratherford Unit Well #24-31 ✓	24	41S	23E	NWNE	San Juan	PRDX
---	-------	--	------------	-------------------------------	----	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 12/13/86.



3 Third Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

CC: GLH
(DTS 2-3-87)
Commencement

JAN 30 1987

PRODUCING ENTITY ACTION

DIVISION OF
OIL, GAS & MINING

Operator Name Phillips Petroleum Company
 Address P. O. Box 2920
 City Casper State Wyoming Zip 82604
 Utah Account No N0772

Authorized Signature Meredith F. Widiker
 Effective Date December, 1986 Telephone (307) 237-3791

ACTION CODE

- A Establish new entity for new well(s).
- B Add new well(s) to existing entity.
- C Delete well(s) from existing entity.
- D Establish new entity for well(s) being deleted from existing entity.
- E Change well(s) from one entity to another existing entity.
- F Other. (Specify using attachments if necessary.)

BRACKET WELLS TO BE GROUPED TOGETHER.

(Use black ink or typewriter ribbon.)

Action Code	Current Entity No.	New Entity No.	API No.	Well Name	Well Location					Producing Formation
					Sec.	T	R	Q/Q	County	
C	06280		4303715728	Ratherford Unit Well #17-23	17	41S	24E	NESW	San Juan	PRDX

Explanation of action:

Well converted to a water injection well effective 11/20/86.

C	06280		4303730244	Ratherford Unit Well #18-23	18	41S	24E	NESW	San Juan	DSCR
---	-------	--	------------	-----------------------------	----	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 11/17/86

C	06280		4303715840	Ratherford Unit Well #1-44 ✓	1	41S	23E	SESE	San Juan	PRDX
---	-------	--	------------	------------------------------	---	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 12/15/86

C	06280		4303715842	Ratherford Unit Well #11-44 ✓	11	41S	23E	SESE	San Juan	PRDX
---	-------	--	------------	-------------------------------	----	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 12/5/86



3110 Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

CC: BLH
(LTS 2-3-87)

DOGM 56 64 23
7/85

DIVISION OF
OIL, GAS & MINING

PRODUCING ENTITY ACTION

Operator Name Phillips Petroleum Company
 Address P. O. Box 2920
 City Casper State Wyoming Zip 82602
 Utah Account No. N0772

Authorized Signature Meredith K. Wickler
 Effective Date December, 1986 Telephone (307) 237-3791

ACTION CODE

- A Establish new entity for new well(s).
- B Add new well(s) to existing entity.
- C Delete well(s) from existing entity.
- D Establish new entity for well(s) being deleted from existing entity.
- E Change well(s) from one entity to another existing entity.
- F Other. (Specify using attachments if necessary.)

BRACKET WELLS TO BE GROUPED TOGETHER.

(Use black ink or typewriter ribbon.)

Action Code	Current Entity No.	New Entity No.	API No.	Well Name	Well Location					Producing Formation
					Sec.	T	R	Q/Q	County	
C	06280		4303715845	Ratherford Unit Well #12-22 ✓	12	41S	23E	SENW	San Juan	PRDX

Explanation of action:

Well converted to a water injection well effective 12/30/86.

C	06280		4303715850	Ratherford Unit Well #12-42 ✓	12	41S	23E	SENE	San Juan	DSCR
---	-------	--	------------	-------------------------------	----	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 12/23/86.

C	06280		4303715726	Ratherford Unit Well #17-12 ✓	17	41S	24E	SWNW	San Juan	PRDX
---	-------	--	------------	-------------------------------	----	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 12/12/86.

C	06280		4303715862	Ratherford Unit Well #24-31 ✓	24	41S	23E	NWNE	San Juan	PRDX
---	-------	--	------------	-------------------------------	----	-----	-----	------	----------	------

Explanation of action:

Well converted to a water injection well effective 12/13/86.

an equal opportunity employer

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

SUBMIT IN TRIPlicate*
(Other instructions on reverse side)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

4-20-603-246A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT ASSIGNMENT NAME

SW-I-4192

8. FARM OR LEASE NAME

Ratherford Unit

9. WELL NO.

1W44

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., E., OR S.E. AND
EAST OR AREA

Sec. 1-T41S-R23E

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

1. OIL WELL GAS WELL OTHER Water Injector

2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
P.O. Box 2920, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
660' FSL, 661' FEL SE SE

API# 43-037-15840

14. PERMIT NO.

15. ELEVATIONS (Show whether SP, ST, GR, etc.)
4661' RKB

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

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANE

(Other) Convert to water injection

(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.)*

Nov. 29, 1986 through Dec. 13, 1986

COOH with rods, pump and tbg. Co to 5617'. Isolate zone II w/Cal-Seal/Hydromite. TOC @ 5588'. Squeezed the Ismay perms w/20 sx class B cmt. WOC. Clean out to 5588', new PBSD. Acidize Zone I w/4500 gal of 28% HCL acid. Swabbed back load. GIH w/injection packer and Duoline tbg. Set pkr @ 5440'. Perform UIC tests. RDWS 12/13/86. Hu to injection 12/15/86.

Production Before 10 BOPD, 68 BWPD
Injection After 304 BWPD @ 2250

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, B¹Ville 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 TRIPlicate*
(Other instructions on re-
verse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

RECEIVED
 MAR 20 1989
 OIL, GAS & MINING

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

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

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

(former Operator - Phillips Oil Company)

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

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

SIGNED S. H. Oden TITLE District Superintendent DATE March 17, 1989
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

DOWNHOLE SCHEMATIC

Date: 8/6/87

RATHERFORD Unit # 1W44

Location SE SE Sec. 1

RKB Elev. 4661'

T415-R2BE

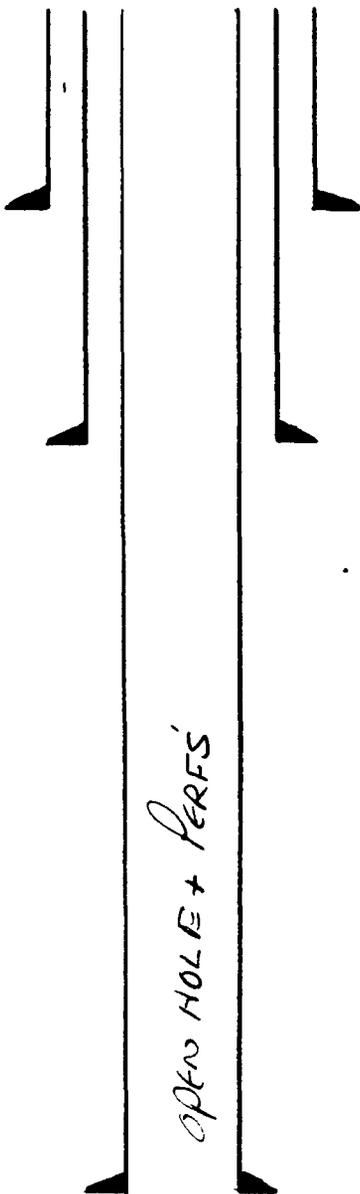
GL Elev. 4650'

Well Drld 2/11/57

RKB Above GL' 11'

Well converted to injector 12/13/86

22 SHEETS 1 SQUARE
42 SHEETS 1/2 SQUARE
42 SHEETS 1/4 SQUARE
42 SHEETS 1/8 SQUARE



CONDUCTOR CSG ⊙ 1'

SURFACE CSG. 8 5/8 @ 5522'

TOC 4159' CHL

Tubing 2 7/8 @ 1' Rice Quoline HTZ

PACKER BAKER LOC-SET
⊙ 5440'

PERFS	<u>5455 - 67</u>	<u>5522 - 88</u>
	<u>5470 - 73</u>	<u> - </u>
	<u>5476 - 82</u>	<u> - </u>
	<u>5485 - 90</u>	<u> - </u>

PBTD 5588'

PRODUCTION CSG. 5 1/2 @ 5522
J-55 14#

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

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
SW-I-4192

8. Well Name and No.
Ratherford Unit #1W44

9. API Well No.
43-037-15840

10. Field and Pool, or Exploratory Area
Greater Aneth

11. County or Parish, State
San Juan, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other **Water Injector**

2. Name of Operator
Phillips Petroleum Company

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit P, 660' FSL & 661' 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 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 checked="" type="checkbox"/> Other <u>Clean-out</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 <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

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.)

8-5-91 thru 8-8-91
MI & RU DDU. COOH w/injection equipment. Ran bit & scraper to PBSD. Circ. well clean. Ran injection tbg and tested to 3000 psi - okay. Set 5-1/2" Otis Interlock pkr @ 5412'. Tested annulus to 1000 psi - okay. Disengaged on-off tool. Circ. pkr fluid. ND BOP & NU WH. Pressured annulus to 1020 psi for 45 min. for MIT test - okay. Returned well to injection.

RECEIVED

AUG 12 1991

DIVISION OF
OIL GAS & MINING

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

Signed *L. E. Robinson* Title Sr. Drlg. & Prod. Engr. Date 8-9-91
(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

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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
SW-I-4192

8. Well Name and No.

Ratherford Unit #1W44

9. API Well No.

43-037-15840

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other Injection

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

5525 Hwy 64 NBU 3004, Farmington, NM 87401 (505) 599-3412

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

Unit P, 660' FSL & 661' 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 type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water

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

10-1-91 thru 10-8-91

MI & RU DDU. COOH w/injection equipment. RU Schlumberger and ran TDT waterflow log, showed no flow behind pipe. Ran dual pkrs to isolate annulus pressure source. Bottom pkr @ 5257' & top pkr @ 1832'. Tested annulus to 1000 psi for 45 minutes for MIT test - okay. ND BOP & NU WH. Flushed inj. line, expelled tbg test plug and returned well to injection.

RECEIVED

JAN 13 1992

DIVISION OF
OIL GAS & MINING

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

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

Title Sr. Drlg. & Prod. Engr.

Date 1-8-92

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

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*See instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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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 #1W44

9. API Well No.
43-037-15840

10. Field and Pool, or Exploratory Area
Greater Aneth

11. County or Parish, State
San Juan, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other Injection

2. Name of Operator
Phillips Petroleum Company

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit P, 660' FSL & 661' FEL
Sec. 1, T41S, R23E

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<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

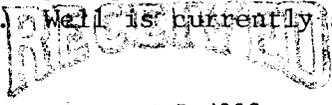
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)*

10-28-91 thru 11-20-91
Well started building annular pressure, MI & RU DDU. Attempted to reset dual pkrs to isolate small casing leak. Developed waterflow behind 5-1/2" csg. Notified George Robin of EPA on 11-6-91 and Ken Townsend of BLM on 11-7-91. Ran temp. log per EPA request.

Cmt injection interval w/75 sx cement to shut off flow and circ. 400 sx cmt behind 5-1/2" csg from 1710' to surface to establish external mechanical integrity.

Drilled out cement squeezes to 5125', left cmt across inj. interval until further work is performed, i.e. 4" liner installation. Ran temp logs after remediation which verified that the water flow has been stopped. Well is currently shut-in pending further evaluation.



JAN 13 1992

DIVISION OF
OIL, GAS & MINING

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

Signed [Signature] Title Sr. Drlg. & Prod. Engr. Date 1-8-92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

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 #1W44

9. API Well No.

43-037-15840

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other Water Injector

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

5525 Hwy 64 NBU 3004, Farmington, NM 87401 (505) 599-3412

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

660' FSL & 661' 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 type="checkbox"/> Notice of Intent	<input checked="" 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.)

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

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

Date: 10-26-92

By: [Signature]

RECEIVED

OCT 19 1992

DIVISION OF
OIL GAS & MINING

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

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

(This space for Federal or State office use)

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

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

*See Instruction on Reverse Side

RATHERFORD UNIT #1W44
PLUG AND ABANDONMENT PROCEDURE
SEPT. 22, 1992

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

Formation Tops: Chinle 1500' est.
Hermosa 4528'

1. Notify Mark Kelly (505-599-8907) with the BLM and at least 24 hrs. prior to commencement of operations. Also notify Ken Lingo (505-327-6818) with the EPA to witness operations (48 hrs. notice)
2. Pick up packer and TIH on 2 7/8", 6.5# workstring. Locate hole in 5 1/2", 14# casing between 5125' and 1762'. Attempt to establish an injection rate and pressure thru hole. If hole is below 4428' see step 3-A; if not see step 3-B.
- 3A. POOH and lay down packer. TIH with 2 7/8" workstring to 5125'. Mix and pump 125 SK cement (50% excess) balanced plug. Pull up to 4000' and circulate hole with Bentonite mud of at least 9 PPG. Premixed mud is available from Baroid (505-325-1896). Plug should extend from 5125' to above 4428' and will isolate Hermosa Formation.
- 3B. POOH and lay down packer. TIH with 2 7/8" workstring to 5125' and circulate hole with Bentonite mud of at least 9 ppg. Pull up to 4628'. Mix and pump 35 SK cement (50% excess) balanced plug. Plug will extend from 4628' to above 4428' and will isolate Hermosa Formation.
4. If hole is located below 2500' see step 4A and if hole is above 2500' see step 4-B.
- 4A. POOH. Pick up packer and TIH. Set packer 100' above hole. Mix and pump 50 SK cement. Attempt to squeeze away 100' of casing volume or as much as possible. POOH and lay down packer. TIH to 1600'. Mix and pump 35 SK cement plug (50% excess) balanced plug. Plug will extend from 1600' to above 1400' and isolate Chinle Formation. Previously casing was perforated at 1710' and cement circulated to surface.

- 4B. TIH to 2500'. Mix and pump 200 SK cement (50% excess) balanced plug. Plug will extend from 2500' to above 1400' and isolate Chinle Formation.
5. POOH. Cut off casing at bottom of cellar or 3' below ground level whichever is deeper. TIH and set 10 SK. Plug 50' to surface.
6. Erect P&A marker, fill cellar, clean and restore location to BLM specifications which include reseeding the location at the appropriate time.

CEMENT DATA:

Class H: 15.8 PPG
4.96 GAL/SK
1.16 FT₃/SK

WELLBORE DIAGRAM

COMPANY: Phillips Petroleum Company
WELL: Ratherford Unit No. 1 W 44

DATE: 7-15-91

Location: SESE Sec. 1
T41S, R23E
San Juan County
Utah

RKB Elev. 4661'
GL Elev. 4650'
RKB above GL 11'

Well Drilled 2/11/57
Converted to Injector 12/13/86



← 13 3/8" casing set at 29' KB

← 8 5/8" surface set at 1493' KB

1710' Holes squeezed with returns to surface
Casing leak between 5125' & 1762'

T.O.C. 4159' calc.

T.O.C. @ 5125

Perforations: 5522-88'

← 5 1/2" 14# J-55 CSA 5522'

← PBTD 5588'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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14-20-603-246A

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

Ratherford Unit
SW-I-4192

8. Well Name and No.

Ratherford Unit #1W44

9. API Well No.

43-037-15840

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other Water Injector

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

5525 Hwy 64 NBU 3004, Farmington, NM 87401 (505) 599-3412

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

Unit P, 660' FSL & 661' FEL
Section 1, T41S, R23E

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TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
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	<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.)*

1-28-93 thru 2-3-93

MIRU MWS, ND WH & NU BOP. POOH w/2-7/8" tbg. TIH w/Baker 5-1/2" full bore pkr. Isolate hole in 5-1/2" csg @ 3784'. POOH w/paker. TIH w/open ended 2-7/8" tbg to 5125'. Circ csg w/9 ppg drilling mud. Pull & laid down 2-7/8" tbg to 4628'. RU Western Co. Tested lines to 2500 psi - okay. Plug #1 from 4628'-4428' w/35 Sx, 41.3 ft³, Class B, 50% excess; plug #2 3871'-3671' w/35 Sx, 41.3 ft³, Class B, 50% excess; plug #3 1613'-1413' w/35 Sx, 41.3 ft³, Class B, 50% excess. Pull & laid down tbg. ND BOP. Plug #4 63'-surface w/20 Sx, 23.6 ft³, Class B w/2% CaCl₂. Pull & laid down tbg. Top off cmt in csg. All cement mixed @ 15.6 ppg. (plug okay'd by Steve Mason w/BLM; P&A witnessed by Ken Lingo w/EPA). RD, P&A complete.

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

Signed L. E. Robinson Title Sr. Drlg. & Prod. Engr. Spec. Date 2-8-93

(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

FEB 12 1993

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

ACCOUNT NUMBER: N0772

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

RECEIVED

AUG 16 1993

REPORT PERIOD (MONTH/YEAR):

6 / 93

DIVISION OF
OIL, GAS & MINING

AMENDED REPORT (Highlight Changes)

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

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

I hereby certify that this report is true and complete to the best of my knowledge. Date: 8/11/93
Name and Signature: PAT KONKEL *Pat Konkell* Telephone Number: 505 599-3452

MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

L B Sheffield
~~BRIAN BERRY~~
~~M E P N A MOBIL~~
~~POB 219031 1807A RENTWYR~~ *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)

**931000 updated. file*

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								
	OIL								
	GAS								
TOTALS				249710	243825	5885			

RECEIVED
 SEP 13 1993
 DIVISION OF OIL, GAS & MINING

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

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

Date: 9/5/93

Name and Signature: *Lowell B Sheffield*

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
07W-43	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
KINGSTON

SEP 13 1993

DIVISION OF
OIL, GAS & MINING

PAID

PAID
PAID

14-20-603-246

SE/NW 1920 FNL 2080 FWL

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

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.

10. FIELD AND POOL, OR WILDCAT
GREATER ANETH

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

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

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
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)
FULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON
CHANGE PLANS

SUBSEQUENT REPORT OF:

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

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.

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

SIGNED Shirley Todd

TITLE ENV. & REG TECHNICIAN

DATE 9-8-93

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

See Instructions On Reverse Side

Sept 29, 1993

TO: Lisha Cordova - Utah Mining
Oil & Gas

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

Here is copy of Rutherford Unit
Successor Operator,

4 pages including this one.

File Ratherford Unit (GC)

RECEIVED
BLM

SEP 27 5:11:44
070 FARMINGTON, NM

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

ARES/543

JUL 23 1993

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

MINERALS DIVISION
NO. 1372
DATE
BY
REMARKS
FILED
ALL SUPPLY
FILED

Dear Mr. Cox:

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

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

Sincerely,

ACTING Area Director

Enclosure

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

RECEIVED
BLM

DESIGNATION OF OPERATOR

Phillips Petroleum Company is, on the records of the Bureau of Indian Affairs, operator of the Rutherford Unit, ^{FD # 27 611:44}

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

070 FARMINGTON, NM

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

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

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

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

Attached hereto as Exhibit "A"

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

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

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

Attached is the appropriate documentation relevant to this document.

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

Phillips Petroleum Company

June 17, 1993

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

Mobil Exploration and Producing
North America Inc.

June 11, 1993

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

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

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

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

EXHIBIT "A"

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

EXHIBIT "C"

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

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

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____ Suspense _____ Other _____
(Return Date) _____ OPERATOR CHANGE
(Location) Sec ___ Twp ___ Rng ___ (To - Initials) _____
(API No.) _____

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

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

Name GLEN COX (Initiated Call) - Phone No. (915)688-2114
of (Company/Organization) MOBIL

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

4. Highlights of Conversation: _____

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

MEPNA-

PO DRAWER G

CORTEZ, CO 81321

(303)565-2212

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

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:	
1-VLC/477-SJ	<input checked="" type="checkbox"/>
2-DPS/58-ALB	<input checked="" type="checkbox"/>
3-VLC	<input checked="" type="checkbox"/>
4-RJF	<input checked="" type="checkbox"/>
5-DEK	<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: **SEE ATTACHED**	API: <u>43037-15840</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

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

ENTITY REVIEW

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

BOND VERIFICATION (Fee wells only)

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 11-10-93 1993, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

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

FILING

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

COMMENTS

931006 BIA/B/m Approved 7-9-93.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

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

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

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

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

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

- 1) Ratherford Well # 1-W-44, 660' FSL/660' FEL, Sec. 01-T41S-R23E, Lease # 14-20-603-246A; 43-037-15840
- 2) Ratherford Well # 24-11, 510' FNL/810' FWL, Sec. 24-T41S-R23E, Lease # 14-20-603-247A; 43-037-15861
- 3) Ratherford Well # 5-W-43, 1400' FSL/990' FEL, Sec. 05-T41S-R24E, Lease # 14-20-603-368; 43-037-16392
- 4) Ratherford Well # 9-32, 1980' FNL/1980' FEL, Sec. 09-T41S-R24E, Lease # 14-20-603-4035; 43-037-16163
- 5) Ratherford Well # 9-W-41, 660' FNL/660' FEL, Sec. 09-T41S-R24E, Lease # 14-20-603-4035. 43-037-16399

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

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

Permits
SEP 25 2000

IN REPLY REFER TO:
070 3160

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

SEP 18 2000

Dear Mr. Del Pico:

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

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

Therefore, these wells are hereby approved for final abandonment.

Sincerely,

Rich Dembowski,
Petroleum Management Team Leader

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

- 5. Lease Serial No.
See Listing below
- 6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL
- 7. If Unit or CA/Agreement, Name and/or No.
Ratherford Unit
- 8. Well Name and No.
See Listing below
- 9. API Well No.
See Listing below
- 10. Field and Pool, or Exploratory Area
Greater Aneth
- 11. County or Parish, State
San Juan, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

- 1. Type of Well
 Oil Well Gas Well Other
- 2. Name of Operator
Mobil Producing TX & NM Inc.*
*Mobil Exploration & Producing US Inc as agent for MPTM
- 3a. Address
P.O. Box 4358, Houston, TX 77210-4358
- 3b. Phone No. (include area code)
713-431-1828
- 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
See Listing below

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

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

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

BOND RELEASE:

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

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

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)
Cathy Higginbotham

Title Staff Administrative Assistant

Signature

Cathy Higginbotham

Date 1/9/01

THIS SPACE FOR FEDERAL OR STATE OFFICIAL USE

Approved By

Title

Date

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

Office

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