As of 1-12-62, this well is classified as a water injection well & is now waiting on water injection line.

Started injecting as of ~~January~~ April 1962. (Mo. Prod. Report)

Scout Report sent out	☑
Noted in the NID File	☑
Location map pinned	☑
Approval or Disapproval Letter	☑
Date Completed, P. & A. or operations suspended	4-9-57
Pin changed on location map	☐
Affidavit and Record of A & P	☐
Water Shut-Off Test	☐
Gas-Oil Ratio Test	☐
Well Log Filed	☑

Started Injecting As of April, '62

FILE NOTATIONS

Entered in N I D File	✓	Checked by Chief	✓
Entered On S R Sheet	✓	Copy N I D to Field Office	✓
Location Map Pinned	✓	Approval Letter	✓
Card Indexed	✓	Disapproval Letter	
I W R for State or Fee Land			

COMPLETION DATA:

Date Well Completed 4-9-57

OW ✓ WW ____ TA ____

GW ____ OS ____ PA ____

Location Inspected ____

Bond released ____

State of Fee Land ____

LOGS FILED

Driller's Log 5-2-57

Electric Logs (No.) 5

E ✓ I ____ E-I ____ GR ____ GR-N ____ Micro ✓

Lat ✓ Mi-L ✓ Sonic ____ Others Radioactivity Log

Form OGCC-1

STATE OF UTAH
OIL AND GAS CONSERVATION COMMISSION
NOTICE OF INTENTION TO DRILL

OIL AND GAS CONSERVATION COMMISSION

January 10, 1957

In compliance with Rule C-4, notice is hereby given that it is our intention to commence the work of drilling Well No. Aneth 27-D4, which is located 660 ft. from XXX (S) line and 660 ft. from (E) XXX line of Sec. 27, Twp. 40-S, R. 24-E, Salt Lake (Meridian), Aneth (Field or Unit), San Juan (County), on or about 20th day of January, 1957.

LAND: Fee and Patented ( ) State ( ) Lease No.

Public Domain Lease No. Navajo 14-20-603-2056

Name of Owner of patent or lease The Pure Oil Co.) Sun Oil Co.) Jointly The Ohio Oil Co.)

Address The Pure Oil Company (Operator)
P. O. Box 1597
Billings, Montana

Is location a regular or exception to spacing rule? Regular. Has a surety bond been filed? Yes. With whom? Federal (State or Federal). Area in drilling unit 2560 Acres in Tract 164.

Elevation of ground above sea level is Will be furnished later. ft. All depth measurements taken from top of Kelly Bushing (Derrick Floor, Rotary Table or Kelley Bushing) which is Furnish later. ft. above ground.

Type of tools to be used Rotary. Proposed drilling depth 6,000 ft. Objective formation is Paradox Dolomite.

PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight Per Foot	Grade and Type	Amount Ft.	Amount In.	Top	Bottom	Cementing Depths
16" OD	65#	H-40	50	0	Cemented to surface.		
10-3/4" OD	40.5#	J-55	1100	0	Cemented to surface.		
5-1/2" OD	15.5#	J-55	5900	0			5900'.

AFFIDAVIT

I hereby certify under the penalty of perjury, that the information contained and statements herein made are to the best of my knowledge and belief, true, correct and complete.

Approved

Date 19

By

Title

By T. L. Warburton
T. L. Warburton
Division Chief Production Clerk
(Title or Position)
The Pure Oil Company
(Company or Operator)

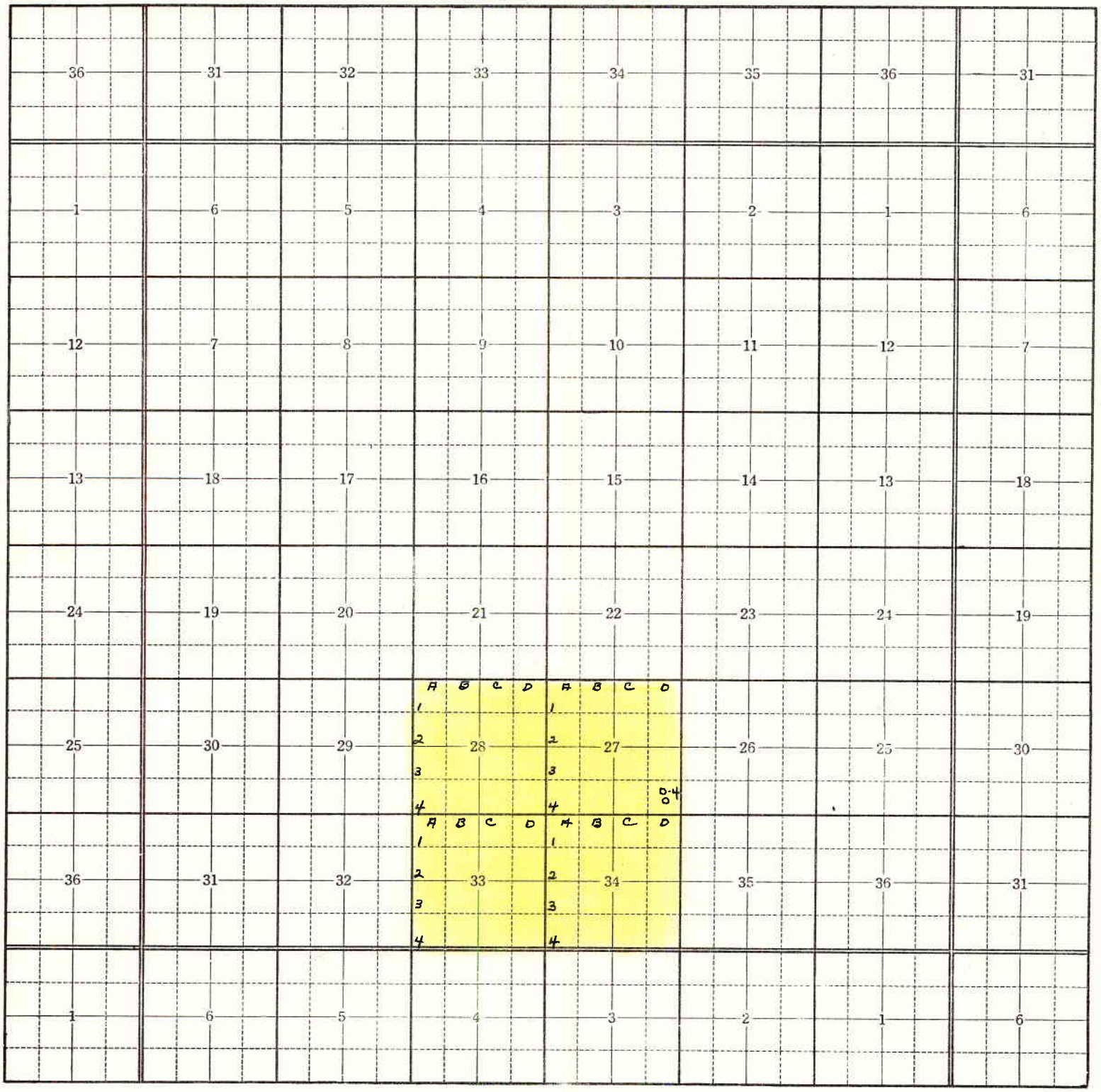
Address P. O. Box 1597
Billings, Montana

INSTRUCTIONS:

1. Complete this form in duplicate and mail both copies to the Oil and Gas Conservation Commission, Rm. 105, Capitol Building, Salt Lake City 14, Utah.
2. A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.
3. Any information required by this form that cannot be furnished at the time said form is submitted must be forwarded to the Commission as soon as available.
4. Use back of form for remarks.

Township 40 S, Range 24 E, County SAN JUAN, State UTAH

Island Township Plat



KINTZEL BLUE PRINT CO., CASPER, WYOMING

ANETH AREA

LOCATION ANETH 27D4 Tract 164

Form 21 P100—Poco—15M—[illegible]-43

THE PURE OIL COMPANY
LOCATION REPORT

Date January 10, 1957 A.F.E. No. 157

Division Rocky Mountain Producing District Aneth Lease Navajo 14-20-603-2056

Acres 2560.00 Lease No. 7064 Elevation _____ Well No. Aneth 27 D 4 (Serial No. _____)

Quadrangle C SE¼SE¼ Sec. 27 Twp. 40S Rge. 24E Blk. Dist. Twp. _____

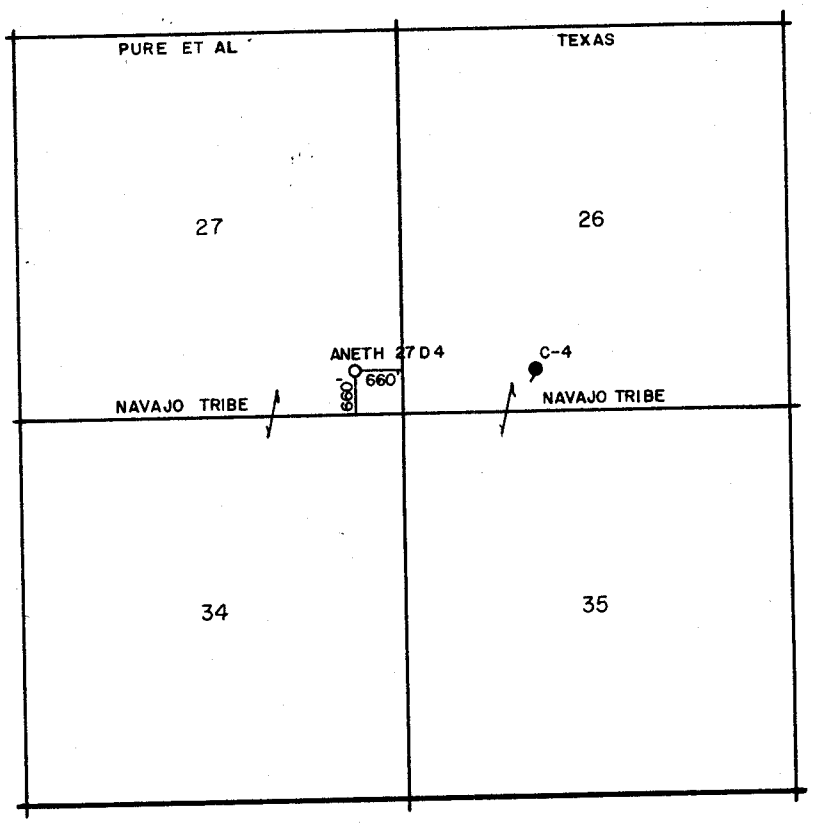
Survey Salt Lake Meridian County San Juan State Utah

Operator The Pure Oil Company Map _____

_____	Feet from North Line of Lease
_____	" " East " " "
_____	" " South " " "
_____	" " West " " "
4754	Feet from North Line of Section
660	" " East " " "
660	" " South " " "
4620	" " West " " "

LEGEND

- Location
- Gas Well
- Oil Well
- Gas – Distillate Well
- Dry Hole
- Dry Showing Oil
- Dry Showing Gas
- Abandoned Location
- Abandoned Gas Well
- Abandoned Oil Well
- Input Well



N

Scale 2" = 1 MILE

Remarks: _____

Submitted by _____ Civil Engineer

Approved by _____ Division Manager

Approved by _____ Vice-President – General Manager

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION
P. O. BOX 1597
BILLINGS, MONTANA

January 10, 1957

Mr. C. B. Feight, Secretary
Utah Oil & Gas Conservation Commission
Room 140
State Capitol Building
Salt Lake City, Utah

Dear Mr. Feight:

Enclosed, in duplicate, is Form OGCC-1, Notice of Intention to Drill Aneth Well No. 27-D-4, located C SE¼ SE¼ Section 27, T-40-S, R-24-E, San Juan County, Utah. This location is on Navajo Lease No. 14-20-603-2056, owned jointly by The Pure Oil Company, Sun Oil Company and Ohio Oil Company, with The Pure Oil Company as operator. Also enclosed are two copies of the Location Plat for the above mentioned well.

At a meeting between the partners, it was unanimously agreed that the Grid system of numbering would be adopted on wells in this field. To explain this system, we are enclosing a township plat for the Aneth Area, Tract 164, and for the Ismay Area, Tract 158. By referring to the attached plat, you will note this system employs the use of the letters A, B, C & D, running horizontally from west to east and the numbers 1, 2, 3 & 4 running vertically from north to south of the section. Please note the number 27-D-4 for the subject well identifies the well as being located in the SE¼ of the SE¼ of Section 27. We trust this system of numbering will meet with your approval.

If you have any questions regarding the proposed drilling of this well, we shall appreciate your calling the writer collect.

Yours very truly,

T. L. Warburton
Division Chief Production Clerk

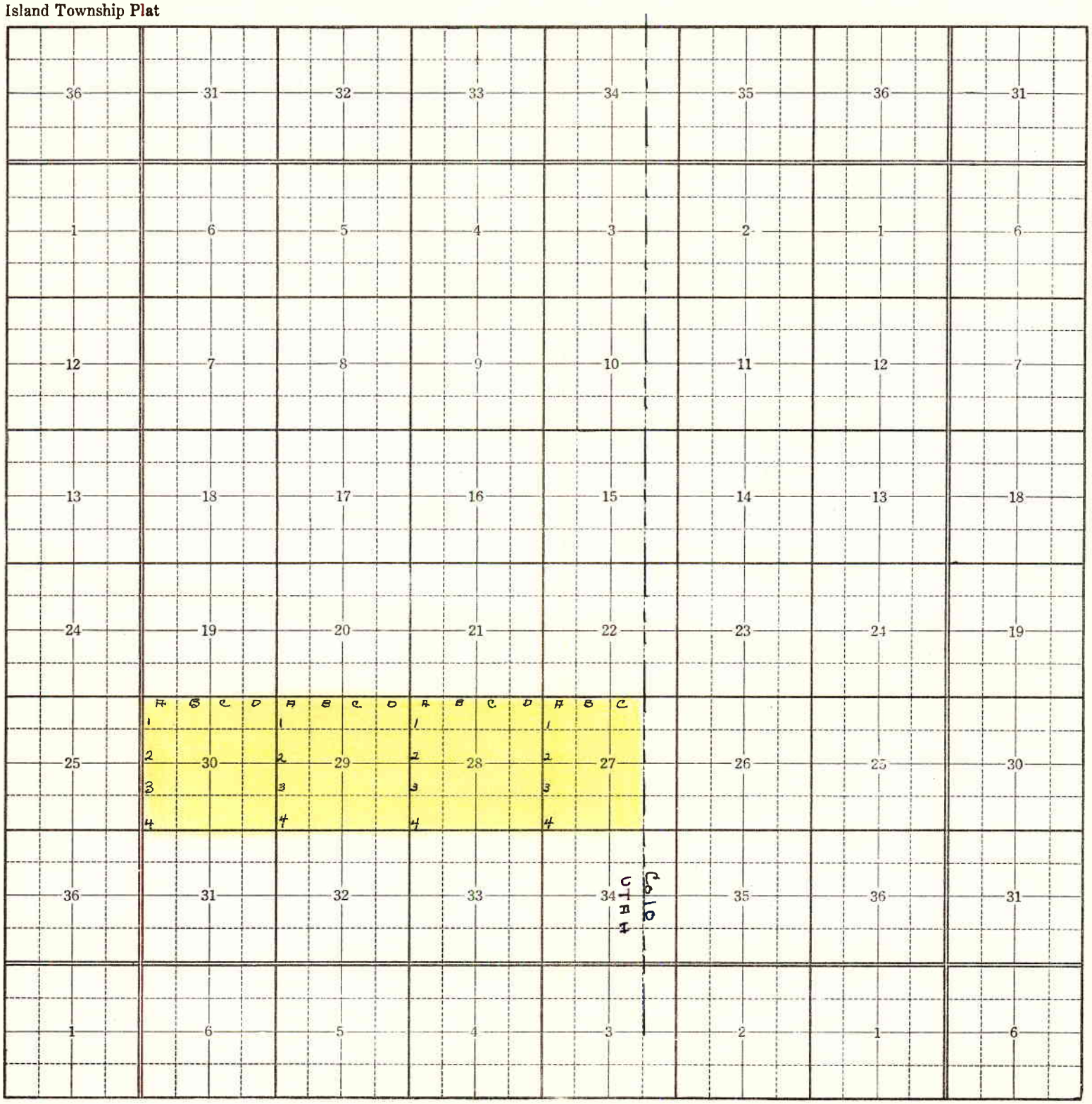
TLW:dk

Encls.

ALL QUOTATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
ALL AGREEMENTS CONTINGENT UPON STRIKES, FIRES, ACTS OF THE GOVERNMENT AND CARRIERS, AND ALL OTHER CAUSES BEYOND OUR CONTROL.

Township 40 S, Range 26 E, County SAN JUAN, State UTAH

Island Township Plat



KINTZEL BLUE PRINT CO., CASPER, WYOMING

ISMAY AREA
Tract 158

Form 24 P100—Poco—15M—11 3-43

THE PURE OIL COMPANY
LOCATION REPORT

Date January 10, 1957 A.F.E. No. 157

Division Rocky Mountain Producing District Aneth Lease Navajo 14-20-603-2056

Acres 2560.00 Lease No. 7064 Elevation _____ Well No. Aneth / 27 D 4 (Serial No. _____)

Quadrangle C SE¼SE¼ Sec. 27 Twp. 40S Rge. 24E Blk. Dist. Twp. _____

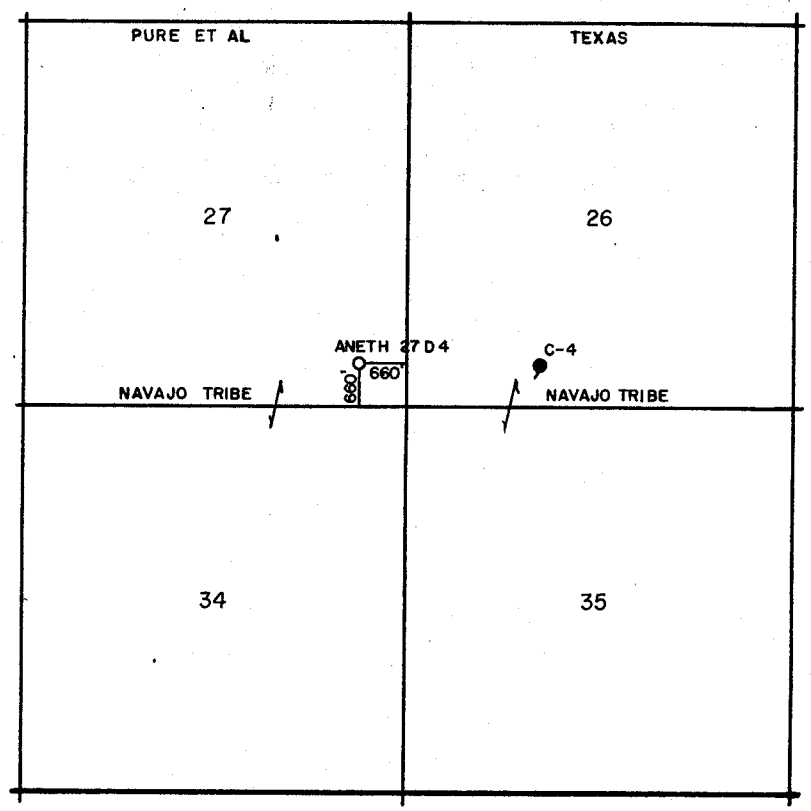
Survey Salt Lake Meridian County San Juan State Utah

Operator The Pure Oil Company Map _____

_____ Feet from North Line of Lease
_____ " " East " " "
_____ " " South " " "
_____ " " West " " "
4754 Feet from North Line of Section
660 " " East " " "
660 " " South " " "
4620 " " West " " "

LEGEND

- Location
- Gas Well
- Oil Well
- Gas – Distillate Well
- Dry Hole
- Dry Showing Oil
- Dry Showing Gas
- Abandoned Location
- Abandoned Gas Well
- Abandoned Oil Well
- Input Well



N

Scale 2" = 1 MILE

Remarks: _____

Submitted by _____ Civil Engineer

Approved by _____ Division Manager

Approved by _____ Vice-President – General Manager

January 11, 1957

The Pure Oil Company
P. O. Box 1597
Billings, Montana

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Aneth 27-B-4, which is to be located 660 feet from the south line and 660 feet from the east line of Section 27, Township 40 South, Range 24 East, SLBM, 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. FEIGHT
SECRETARY

CBF:cn

cc: Phil McGrath
USGS, Farmington,
New Mexico

ANETH PROSPECT

ANETH 27-D4

SE SE SE Sec. 27, T .40S., R. 24E.

660' FSL & 660' FEL

SAN JUAN COUNTY, UTAH

SPUDDED JANUARY 19, 1957

COMPLETED MARCH 25, 1957

SAMPLE ANALYSIS BY H. G. ALEXANDER

FORMATION TOPS

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	DATUM
Morrison	Spud	Spud	
Summerville	220		+4485
Entrada	340	325	+4583
Carmel	655	656	+4042
Navajo	820	810	+3898
Kayenta	1155	1163	+3545
Wingate	1240	1244	+3464
Chinle	1555	1574	+3134
Shinarump	2670	2670	+2038
De Chelly	2730	2740	+1968
Organ Rock	2866	2850	+1858
Hermosa	4643	4657	+ 73
Paradox "A"	5449	5445	- 733
Paradox "B"	5605	5598	- 886
Paradox "C"	5610	5608	- 896
Paradox "D"	5905	5903	-1093
Total Depth	5922	5922	-1112

50 - 60	Sandstone, buff and green, fine to course, sub-angular, calcareous, shaly, poorly cemented; some shale, green calcareous, silty.
60 - 70	Sandstone, buff, course grain, sub-angular, calcareous, shaly; trace shale, green, calcareous, silty.
70 - 80	As above.
80 - 90	Sandstone, gray, green, fine to medium, calcareous, shaly, subangular; trace sandstone, as above.
90 - 100	As above.
100 - 110	As above.
110 - 120	Sandstone, white to light gray, course grain, sub-angular to sub-rounded, calcareous, shaly; some shale, gray green, calcareous, silty.
120 - 130	As above; trace pyrite.
130 - 140	As above; trace green shale, micaceous.
140 - 150	Shale, green, micaceous, calcareous; siltstone, gray, calcareous, shaly.
150 - 160	As above; trace gypsum.
160 - 170	Shale, brown, calcareous, silty; some sandstone, fine grain, rounded, calcareous.
170 - 180	Shale, as above; some gypsum, mottled.
180 - 190	As above.
190 - 200	Sandstone, gray, fine to course, poorly sorted, sub-angular to sub-rounded, calcareous, shaly; some shale, as above.
200 - 210	Shale, chocolate brown, calcareous, silty; sandstone, buff, fine to medium, poorly sorted, sub-rounded, calcareous, shaly.
210 - 220	As above.
220 - 230	Sandstone, buff, fine to medium, poorly sorted, sub-rounded, calcareous; little shale, chocolate brown, silty, calcareous.
230 - 240	As above.
240 - 250	As above.

250 - 260 As above; trace shale, chocolate brown.

260 - 270 As above; trace shale, green, waxy.

270 - 280 As above.

280 - 290 As above; trace shale, chocolate brown, micaceous, calcareous; trace green shale.

290 - 300 As above.

300 - 310 Sandstone, buff to dark tan, fine grain, sub-rounded, calcareous, shaly; little shale, brown, micaceous, calcareous.

310 - 320 As above.

320 - 330 As above.

330 - 340 As above.

340 - 350 Sandstone, light brown, fine to course, sub-rounded, calcareous; trace sandstone, as above; trace shale, brown, as above.

350 - 360 Sandstone, light brown, fine to medium, sub-rounded, calcareous, slightly shaly; trace shale, brown, calcareous, micaceous.

360 - 370 As above.

370 - 380 As above.

380 - 390 As above.

390 - 400 As above.

400 - 410 Sandstone, light brown, fine to medium grain, sub-rounded, calcareous, slightly shaly.

410 - 420 As above.

420 - 430 Sandstone, as above; some sandstone, light gray, fine grain, calcareous, sub-rounded.

430 - 440 As above; trace shale, brown, calcareous.

440 - 450 As above.

450 - 460 As above.

460 - 470 Sandstone, light brown, fine grain to medium, sub-rounded, calcareous, shaly.

470 - 480 As above.

480 - 490 Sandstone, light brown, fine to course, sub-rounded, calcareous, slightly shaly; rounded, frosted, quartz grains.

490 - 500 As above.

500 - 510 Sandstone, light brown, fine to course grain, sub-rounded, calcareous; rounded, frosted, quartz grains.

510 - 520 Sandstone, orange, as above.

520 - 530 As above.

530 - 540 As above.

540 - 550 As above.

550 - 560 As above.

560 - 570 As above; trace bright green shale, micaceous, calcareous, silty.

570 - 580 As above; trace shale, bright green, as above.

580 - 590 Sandstone, light orange, fine to course grain, sub-rounded, calcareous; little shale, chocolate brown and bright green, silty, calcareous.

590 - 600 As above; trace shale, light gray, micaceous, waxy.

600 - 610 Sandstone, light orange, fine to course grain, sub-rounded, calcareous; trace shale, brown; shale, green; shale, gray; rounded frosted quartz grains.

610 - 620 As above.

620 - 630 As above.

630 - 640 As above.

640 - 650 Sandstone, as above; little siltstone, green, silty, calcareous.

650 - 660 Sandstone, light orange, fine to course, sub-rounded, calcareous; shale, brown, calcareous, silty, rotten; trace gray and green shale.

660 - 670 Shale, varicolored, calcareous, silty; little sandstone, as above.

670 - 680 Siltstone, red, brown, calcareous, micaceous; little shale, as above.

680 - 690 As above; trace shale, as above.

690 - 700 As above.

700 - 710 Siltstone, as above; some siltstone, light gray to white, calcareous; trace shale, varicolored.

710 - 720	Sandstone, white, fine grain, sub-rounded, calcareous; little siltstone, red, brown, calcareous, micaceous.
720 - 730	As above.
730 - 740	Shale, brown and green, calcareous, micaceous, silty; little sandstone, as above.
740 - 750	As above.
750 - 760	Shale, varicolored, silty, calcareous.
760 - 770	Sandstone, white, medium grain, sub-rounded, calcareous; little shale, as above.
770 - 780	Shale, as above; little sandstone, as above.
780 - 790	As above.
790 - 800	As above; trace sandstone.
800 - 810	Shale, varicolored, silty, calcareous.
810 - 820	As above.
820 - 830	Sandstone, light buff, fine grain, sub-rounded, calcareous; trace shale, as above.
830 - 840	Sandstone, as above.
840 - 850	Sandstone, as above.
850 - 860	As above.
860 - 870	As above.
870 - 880	As above.
880 - 890	As above.
890 - 900	As above.
900 - 910	As above; trace shale, brown, calcareous, silty.
910 - 920	Shale, brown and green, calcareous, slightly silty; sandstone, as above.
920 - 930	As above.
930 - 940	As above.

940 - 950	As above; trace shale, green, very sandy, course grain; disseminated pyrite.
950 - 960	Shale, brown, slightly silty, calcareous; some sandstone, buff, fine grain, sub-rounded, calcareous; trace shale, green.
960 - 970	As above; more green shale.
970 - 980	As above.
980 - 990	As above.
990 - 1000	As above.
1000 - 1010	As above.
1010 - 1020	As above; trace shale, purple.
1020 - 1030	As above.
1030 - 1040	As above; trace limestone, light gray, fine crystalline, dense.
1040 - 1050	As above.
1050 - 1060	As above.
1060 - 1070	Shale, brown, silty, calcareous; little shale, green, silty, calcareous; little sandstone, buff, fine grain, sub-rounded, calcareous.
1070 - 1080	As above.
1080 - 1090	As above.
1090 - 1100	As above.
1100 - 1110	Shale, brown, calcareous, slightly silty, some green mottled; little shale, green, silty, calcareous; trace sandstone, buff.
1110 - 1120	As above; trace sandstone, green, medium to course grain, angular, very shaly.
1120 - 1130	As above; trace sandstone, fine grain, brown, sub-rounded, calcareous.
1130 - 1140	As above.
1140 - 1150	As above.
1150 - 1160	Shale, brown, slightly silty, calcareous; sandstone, buff to brown, fine grain, sub-rounded, calcareous.
1160 - 1170	Sandstone, brown, medium grain, sub-rounded, calcareous; little shale, brown, as above; trace shale, bright red; trace shale, lavendar.

1170 - 1180 Sandstone, red, brown, medium grain, sub-angular, calcareous, shaly, micaceous; trace shale, bright red, calcareous.

1180 - 1190 As above.

1190 - 1200 As above.

1200 - 1210 As above.

1210 - 1220 Sandstone, pink, medium grain, sub-angular, micaceous, calcareous, shaly, medium hard.

1220 - 1230 As above.

1230 - 1240 Sandstone, as above; trace limestone, light gray, fine crystalline, dense, sandy; trace shale, gray, calcareous.

1240 - 1250 Siltstone, red, calcareous; little sandstone, as above.

1250 - 1260 Siltstone, red, calcareous; trace sandstone, pink, medium grain, sub-angular, calcareous.

1260 - 1270 As above.

1270 - 1280 As above.

1280 - 1290 As above.

1290 - 1300 Sandstone, red, brown, medium grain, sub-rounded, calcareous; some shale, brown, slightly silty, calcareous; trace siltstone, as above.

1300 - 1310 Shale, brown, slightly silty, calcareous; little sandstone, as above.

1310 - 1320 As above.

1320 - 1330 Sandstone, red, fine grain, rounded, calcareous; little shale, as above.

Spud 8:00 P.M. January 19, 1957
18" @ 47' (KB) w/50 sx.
Slope @ 540 0°
Slope @ 651 ½°
Slope @ 1180 1¼°

<u>Sample Tops</u>

Morrison	Spud
Summerville	220?
Entrada	540?
Carmel	655
Navajo	920
Kayenta	1155
Wingate	1240

Prep. to ream to 15".

1532 - 1540 Sandstone, red, fine grain, sub-rounded, calcareous; sandstone, white, medium to course, rounded, slightly dolomitic.

1540 - 1550 As above; more white sandstone.

1550 - 1560 As above.

1560 - 1570 As above.

1570 - 1580 As above.

1580 - 1590 Sandstone, red, fine grain, sub-rounded, slightly calcareous; little sandstone, white, medium to course, rounded, slightly dolomitic.

1590 - 1400 As above.

1400 - 1410 Sandstone, red, fine grain, sub-rounded, slightly calcareous, silty; trace sandstone, white, as above; trace sandstone, red, fine to course grain.

1410 - 1420 Sandstone, red, orange, fine to course grain, sub-angular to sub-rounded, slightly dolomitic, silty, poorly sorted.

1420 - 1430 As above.

1430 - 1440 As above.

1440 - 1450 As above.

1450 - 1460 As above.

1460 - 1470 As above.

1470 - 1480 As above.

1480 - 1490 Sandstone, red orange, fine to course, poorly sorted, sub-angular to sub-rounded, slightly dolomitic; white spots gypsum scattered thruout.

1490 - 1500 As above.

1500 - 1510 Sandstone, gray-green to white, fine to course grain, sub-angular, calcareous; some sandstone, as above.

1510 - 1520 As above.

1520 - 1530 Sandstone, gray-green to light gray, fine to course grain, poorly sorted, sub-angular, calcareous; trace pink sandstone; trace gray brown shale; trace green shale, very sandy.

1530 - 1540 As above.

1540 - 1550 Sandstone as above; trace shale, gray; trace shale, brown, silty.

1550 - 1560 Sandstone, as above; shale, brown, silty, calcareous; little limestone, light gray, fine crystalline, dense.

1560 - 1570 Siltstone, red orange, calcareous; trace sandstone, as above; trace shale as above.

1570 - 1580 As above.

1580 - 1590 As above.

1590 - 1600 As above.

1600 - 1610 As above.

1610 - 1620 As above.

1620 - 1630 As above.

1630 - 1640 Siltstone, red orange, calcareous; some gray mottled.

1640 - 1650 As above.

1650 - 1660 As above.

1660 - 1670 As above.

1670 - 1680 As above.

1680 - 1690 As above.

1690 - 1700 Siltstone, red orange, calcareous, some gray mottled. (Samples become very fine at this point. No large pieces going over shaker.)

1700 - 1710 As above.

1710 - 1720 As above.

1720 - 1730 As above.

1730 - 1740 As above.

1740 - 1750 As above.

1750 - 1760 As above.

1760 - 1770 As above.

1770 - 1780 As above.

1780 - 1790 Siltstone, red orange; some gray mottled, calcareous.

1790 - 1800 As above.

Mud-weight 9.5#, vis. 45, weight on bit 25,000#, pump pressure 450#.
Top Chinle @ 1555?

1800 - 1810 Siltstone, red, brown, calcareous; little siltstone, light gray, calcareous.

1810 - 1820 As above; gray siltstone, probably mottled, noticed above.

1820 - 1830 As above; trace siltstone, maroon, calcareous.

1830 - 1840 As above; trace gray, brown limestone, fine crystalline, dense.

1840 - 1850 As above; trace sandstone, light brown to pink, fine grain, poorly sorted, calcareous, shaly.

1850 - 1860 As above; trace limestone, red, brown, fine crystalline, dense.

1860 - 1870 As above; trace gypsum, white.

1870 - 1880 Siltstone, red, brown, calcareous; light gray mottled; little siltstone, brown, calcareous; trace gypsum.

1880 - 1890 As above.

1890 - 1900 As above.

1900 - 1910 As above.

1910 - 1920 As above.

1920 - 1930 As above; gypsum disseminated thruout.

1930 - 1940 As above; micaceous gypsum disseminated thruout.

1940 - 1950 As above; micaceous gypsum disseminated thruout.

1950 - 1960 Siltstone, red, brown, calcareous; some gray mottled, micaceous; gypsum disseminated thruout.

1960 - 1970 As above.

1970 - 1980 As above.

1980 - 1990 As above; trace limestone, light red, brown, fine crystalline, dense.

1990 - 2000 As above.

2000 - 2010 As above.

2010 - 2020 Siltstone, red, brown, calcareous; gypsum, disseminated throout. (Seems to be harder, cuttings much finer.)

2020 - 2030 Siltstone, red to pink, calcareous; gypsum crystals, some course, sub-rounded quartz grain. (Cuttings fine.)

2030 - 2040 Siltstone, as above; some shale, maroon, calcareous, some quartz grain.

2040 - 2050 As above.

2050 - 2060 As above.

2060 - 2070 As above.

2070 - 2080 Siltstone, red to pink, calcareous; trace gypsum, some gray mottled.

2080 - 2090 As above; trace pink limestone.

2090 - 2100 As above; some sub-rounded quartz grain.

2100 - 2110 Siltstone, red to pink, calcareous, shaly; trace gypsum; few sub-rounded quartz grain.

2110 - 2120 As above; trace brown shale, calcareous, slightly waxy.

2120 - 2130 As above; trace pink limestone.

2130 - 2140 As above; trace limestone, pink, fine crystalline.

2140 - 2150 As above.

2150 - 2160 As above.

2160 - 2170 As above.

2170 - 2180 As above.

2180 - 2190 Siltstone, red to pink, calcareous, shaly; trace gypsum; some sub-rounded quartz grain; some light gray mottled.

2190 - 2200 As above; trace limestone, pink, fine crystalline.

2200 - 2210 As above; little sandstone, pink, fine grain, rounded, calcareous.

2210 - 2220 As above; trace limestone, light pink, fine crystalline, dense.

2220 - 2230 Siltstone, as above; some siltstone, light gray, calcareous, salt and pepper; trace gypsum; trace limestone, light pink to light gray, fine crystalline.

2230 - 2240 As above.

2240 - 2250 As above; many sub-rounded, frosted, quartz grains.

2250 - 2260 Missing.

2260 - 2270 Shale, red to pink, calcareous, silty; some sandstone, pink, fine to course, calcareous; many rounded, frosted, quartz grains; trace gypsum.

2270 - 2280 As above.

2280 - 2290 Shale, red to pink, calcareous, silty; some light gray mottled; trace sandstone, as above; trace gypsum.

2290 - 2300 Shale, maroon and red, brown, silty, calcareous, slightly micaceous; some gray mottled; trace limestone, light gray to pink, fine crystalline; trace gypsum.

2300 - 2310 As above.

2310 - 2320 As above; no limestone.

2320 - 2330 As above; little limestone, light gray, fine crystalline, soft.

2330 - 2340 As above; trace limestone, as above.

2340 - 2350 Shale, maroon and red, brown; some gray mottled, silty, calcareous; trace gypsum; trace limestone, light gray, fine crystalline.

2350 - 2360 As above.

2360 - 2370 As above.

2370 - 2380 As above.

Pump pressure 600#, weight on bit 37,000#, mud-weight 9.7#, vis 36.
(Some of the siltstones logged from 1555 would be called silty shales by other geologists.)

2380 - 2390 Shale, red-brown, maroon and gray, calcareous, silty; trace limestone, fine crystalline; trace gypsum.

2390 - 2400 As above, no limestone.

2400 - 2410 As above; little limestone, light gray, fine crystalline.

2410 - 2420 As above.

2420 - 2430 As above.

2430 - 2440 As above.

2440 - 2450 As above; trace gray shale; trace limestone.

2450 - 2460 As above; trace limestone.

2460 - 2470 Shale, maroon and red brown, with gray mottled, calcareous, silty; trace brown siltstone, calcareous; trace gypsum.

2470 - 2480 VERY POOR SAMPLE. As above.

2480 - 2490 VERY POOR SAMPLE. As above; some rounded, frosted quartz grains, some angular.

2490 - 2500 Shale, as above; sandstone, fine to course grain, poorly cemented, angular to sub-rounded; much chert, orange, gray, brown.

2500 - 2510 Shale, gray, gray-green, lavendar, sandy, calcareous; sand grain, fine to course, angular to sub-rounded; much chert, orange, gray-brown .

2510 - 2520 Sandstone, white to light gray, slightly calcareous, fine to course, angular to sub-angular; trace chert; trace shale, as above.

2520 - 2530 As above; little shale, gray-green, calcareous.

2530 - 2540 Sandstone, light gray to white, fine to course grain, sub-angular, to sub-rounded, calcareous; some chert.

2540 - 2550 Shale, maroon, red-brown, gray-green, calcareous, slightly silty; little sandstone, as above; trace chert.

2550 - 2560 VERY POOR SAMPLE. Shale, purple, maroon, calcareous, slightly silty; trace chert; trace sandstone, as above.

2560 - 2570 VERY POOR SAMPLE. As above.

2570 - 2580 Shale, purple, red-brown, maroon, gray-green, calcareous, slightly silty; trace sandstone, gray to purple, medium grain, calcareous, sub-angular; trace chert.

2580 - 2590 As above.

2590 - 2600 As above; shale, predominantly purple.

2600 - 2610 As above.

2610 - 2620 Shale, purple, little red, gray-green, calcareous, slightly silty; trace orange chert.

2620 - 2630 As above; trace sandstone, white, medium grain, calcareous, sub-angular.

2630 - 2640 As above.

2640 - 2650 As above.

2650 - 2660 As above.

2660 - 2670 Shale, as above; trace sandstone, white to light gray, fine to very course grain, sub-angular, calcareous; trace chert.

2670 - 2680 Sandstone, light gray to white, fine to very course, sub-angular; trace chert; some shale, as above.

2680 - 2690 Conglomerate, light gray, calcareous, slightly rusty; some conglomerate, light green, shaly, calcareous.

2690 - 2700 As above. (Sample mostly caving?) Trace chert.

2700 - 2710 Sandstone, light gray, fine grain, sub-angular; much angular feldspar and biotite; some sandstone, gray-green, very fine grain, calcareous; trace brick red shale.

2710 - 2720 As above; little siltstone, brown, calcareous, micaceous.

2720 - 2730 As above; some siltstone, brown, calcareous, micaceous.

2730 - 2740 Sandstone, orange, brown, calcareous, fine grain, arkosic; many rounded, frosted, quartz grains, some very course.

2740 - 2750 As above.

2750 - 2760 Sandstone, orange, brown, calcareous, fine to course, arkosic, sub-angular, many caving.

2760 - 2770 As above.

2770 - 2780 As above, becoming fine to medium grain.

2780 - 2790 Sandstone, orange, brown, fine to course grain, arkosic, sub-angular to sub-rounded, shaly, many caving.

2790 - 2800 As above; some very course grain.

2800 - 2810 As above; some very course grain.

2810 - 2820 As above.

2820 - 2830 As above.

2830 - 2840 Sandstone, orange, brown, fine to course, sub-angular to sub-rounded, calcareous, micaceous, arkosic.

2840 - 2850 As above.

2850 - 2860 As above; siltstone, orange, brown, micaceous, calcareous, shaly.

2850 - 2870 Siltstone, orange, brown, micaceous, calcareous, shaly; trace sandstone, as above, many caving.

2870 - 2880 As above, becoming more shaly.

2880 - 2890 As above.

2890 - 2900 As above; some gray siltstone included.

2900 - 2910 As above; some gray siltstone included.

2910 - 2920 Siltstone, orange, brown, micaceous, calcareous, shaly; some gray siltstone,included; little shale, orange, brown, calcareous, silty.

2920 - 2930 As above; trace shale, red, brown.

2930 - 2940 As above; no shale, red, brown.

2940 - 2950 As above; no shale, red, brown.

2950 - 2960 Siltstone, as above; shale, gray-green and lavender, calcareous, soft.

2960 - 2970 As above.

2970 - 2980 As above.

2980 - 2990 Siltstone, orange, brown, calcareous, shaly, micaceous; gray siltstone included; little shale, lavender and green, calcareous.

2990 - 3000 As above.

<u>Weight on bit 30,000#, Pump Pressure 600#, mud weight 10#, vis 38.</u>

Top Shinarump 2670
Top De Chelly (Cencomine) 2730
Top Organ Rock 2858

3000 - 3010 Shale, maroon and green, silty, calcareous, micaceous; little siltstone, orange, brown, calcareous, micaceous.

3010 - 3020 Siltstone, as above; little shale, as above.

3020 - 3030 Siltstone, as above; shale, red, brown, micaceous, calcareous, slightly sandy.

3030 - 3040 As above.

3040 - 3050 Shale, red, brown, calcareous, sandy, micaceous; some siltstone, orange, brown, calcareous, micaceous, shaly.

3050 - 3060 As above.

3060 - 3070 Shale, red-brown, sandy, calcareous, micaceous; trace siltstone as above.

3070 - 3080 As above.

3080 - 3090 As above.

3090 - 3100 As above.

3100 - 3110 Shale, lavendar and green, calcareous, micaceous, slightly silty; little shale as above.

3110 - 3120 As above.

3120 - 3130 Shale, lavendar and green as above; shale, red-brown, calcareous, micaceous, silty; siltstone, orange-brown, calcareous, micaceous, shaly.

3130 - 3140 As above.

Weight on bit 30,000#, Pump pressure 650#, mud weight 9.9#, vis. 37.

3140 - 3150 Shale, lavendar, green, brown, orange, silty, calcareous.

3150 - 3160 As above.

3160 - 3170 Shale, red-brown; some lavendar, green, silty, calcareous.

3170 - 3180 As above.

3180 - 3190 Shale as above; trace gray-green sandstone, arkosic, calcareous.

3190 - 3200 As above; trace sandstone, as above.

3200 - 3210 As above; trace gypsum.

3210 - 3220 As above.

3220 - 3230 As above; little siltstone, red, calcareous, shaly.

3230 - 3240 Shale, lavendar; some red-brown, gray, green, calcareous, silty; trace siltstone as above.

3240 - 3250 As above.

3250 - 3260 As above.

3260 - 3270 As above.

3270 - 3280 As above.

3280 - 3290 As above.

3290 - 3300 Shale, lavendar; some red-brown, gray-green, calcareous, silty, micaceous; trace gypsum.

3300 - 3310 Shale as above; trace sandstone, gray, medium to course grain, sub-angular; arkose, feldspar and biotite, calcareous.

3310 - 3320 As above; little sandstone.

3320 - 3330 Shale, lavendar; some red-brown, gray, green, calcareous, silty, micaceous.

3330 - 3340 As above.

3340 - 3350 As above; more red-brown shale.

3350 - 3360 As above.

3360 - 3370 Shale, lavendar, red-brown, gray, green, calcareous, silty, micaceous; trace gypsum.

3370 - 3380 As above; trace red siltstone, calcareous, micaceous, shaly; no gypsum.

3380 - 3390 Siltstone, red, calcareous, micaceous, shaly; some shale as above.

3390 - 3400 Shale, lavendar, red-brown, gray, green, calcareous, silty, micaceous; trace siltstone as above; trace sandstone, gray, calcareous, arkosic.

3400 - 3410 As above.

3410 - 3420 As above.

3420 - 3430 Shale, as above; little sandstone, gray, medium to course grain, sub-angular, arkosic, calcareous.

3430 - 3440 As above.

3440 - 3450 Shale, red-brown, lavendar, gray, green, calcareous, silty, micaceous; trace sandstone, gray, medium to course, sub-angular, arkosic, calcareous.

3450 - 3460 As above.

3460 - 3470 As above.

3470 - 3480 Shale, lavendar; some red-brown, gray, green, calcareous, silty, micaceous; little siltstone, red, calcareous, shaly, micaceous.

3480 - 3490 As above.

3490 - 3500 Shale, red-brown, lavendar, gray, green, calcareous, silty, micaceous; trace anhydrite and gypsum.

3500 - 3510 As above; trace red siltstone.

3510- 3520 As above; trace sandstone, pink to gray, fine to medium grain, sub-angular, arkosic, calcareous.

3520 - 3530 Shale as above; little sandstone as above.

3530 - 3540 Shale, red-brown, lavendar, green, calcareous, silty, micaceous; trace sandstone as above.

3540 - 3550 As above.

3550 - 3560 As above; trace gypsum.

3560 - 3570 As above; trace gypsum; trace limestone, pink, fine crystalline.

3570 - 3580 As above; trace gypsum and angydrite.

3580 - 3590 As above; little anhydrite.

3590 - 3600 Shale, red, calcareous, silty, micaceous; much anhydrite disseminated thruout; some lavendar, gray, green shale, calcareous, silty, micaceous.

3600 - 3610 As above.

3610 - 3620 As above.

3620 - 3630 As above.

3630 - 3640 As above.

3640 - 3650 Shale, red-brown, silty, calcareous, micaceous; trace anhydrite; some shale, lavendar, gray, green, calcareous, micaceous.

3650 - 3660 As above.

3660 - 3670 As above.

3670 - 3680 As above; more lavendar, gray, green shale.

3680 - 3690 As above.

3690 - 3700 Shale, red-brown, calcareous, silty, very micaceous; some biotite; disseminated anhydrite; trace shale, lavendar, green, gray.

3700 - 3710 As above.

3710 - 3720 As above; trace limestone, pink, fine crystalline.

3720 - 3730 As above.

3730 - 3740 As above.

3740 - 3750 Shale, light red, brown, with gray mottled, calcareous, silty, micaceous.

3750 - 3760 As above.

3760 - 3770 As above; trace sandstone, gray, fine grain to course, sub-angular, arkosic, calcareous.

3770 - 3780 As above; trace gypsum.

3780 - 3790 Shale, light red, brown, some lavendar, gray, green, calcareous, silty, micaceous; little anhydrite and gypsum disseminated thruout.

3790 - 3800 As above.

3800 - 3810 As above; trace arkosic sandstone.

3810 - 3820 As above.

3820 - 3830 As above; trace sandstone, arkosic, fine to course grain, sub-angular, calcareous.

3830 - 3840 Shale, light red, some lavendar, gray-green, red-brown, calcareous, silty, micaceous; some sandstone, pink to red, fine to course grain, sub-angular, calcareous, very shaly, arkosic.

3840 - 3850 Shale as above; some sandstone, light to dark gray, fine to course grain, sub-angular, calcareous, arkosic.

3850 - 3860 Sandstone, fine to medium, gray to pink, sub-angular, calcareous, shaly, very arkosic; trace shale as above.

3860 - 3870 As above.

3870 - 3880 Sandstone as above and shale, red, brown, some gray, green, calcareous, silty, micaceous.

3880 - 3890 Shale as above; little sandstone, as above.

3890 - 3900 Siltstone, red-brown, calcareous, shaly; little sandstone, light gray, fine to course grain, sub-angular, calcareous, arkosic.

3900 - 3910 Shale, gray-green, calcareous, very sandy, slightly micaceous; trace siltstone as above; trace gypsum.

3910 - 3920 As above.

3920 - 3930 As above.

3930 - 3940 Shale, lavendar, calcareous, silty, micaceous; little shale as above; gypsum.

3940 - 3950 As above; trace shale, green as above.

3950 - 3960 As above.

3960 - 3970 As above.

3970 - 3980 As above; some shale, gray-green, calcareous, silty, micaceous.

3980 - 3990 Shale, lavendar and gray, calcareous, silty, micaceous; disseminated gypsum.

3990 - 4000 As above.

4000 - 4010 As above.

4010 - 4020 As above; trace brown shale, very micaceous, calcareous.

4020 - 4030 As above.

4030 - 4040 Sandstone, light gray to brown, fine to medium grain, sub-angular, calcareous, very micaceous, arkosic; some shale, as above.

4040 - 4050 Sandstone, light gray to brown, fine to medium grain, sub-angular, calcareous, very micaceous, arkosic; trace shale, lavendar and gray, micaceous, calcareous, silty.

4050 - 4060 Sandstone, as above; some shale, as above; trace anhydrite.

4060 - 4070 Shale, brown; little shale, maroon, gray, gray-green, calcareous, silty, very micaceous; trace gypsum.

4070 - 4080 As above.

4080 - 4090 Shale, as above; little limestone, medium gray, fine crystalline.

4090 - 4100 Shale, brown, red-brown, lavendar, gray, calcareous, silty, very micaceous ; disseminated anhydrite and gypsum.

4100 - 4110 As above.

4110 - 4120 As above.

4120 - 4130 As above.

<u>Weight on bit 35,000 to 40,000#, Pump pressure 600#, mud weight 9.9#, vis. 39.</u>
Slope @ 3820' 1°.

4130 - 4140 Shale, brown, red-brown, lavendar, gray, green, calcareous, silty, micaceous; disseminated anhydrite; trace course sandstone, arkosic, calcareous.

4140 - 4150 As above.

4150 - 4160 As above.

4160 - 4170 As above.

4170 - 4180 As above.

4180 - 4190 As above; trace gray dense limestone, fine crystalline.

4190 - 4200 As above.

4200 - 4210 As above.

4210 - 4220 Shale, brown and red-brown; little lavendar gray, green, calcareous, silty, micaceous; disseminated gypsum.

4220 - 4230 As above.

4230 - 4240 As above.

4240 - 4250 As above.

4250 - 4260 As above; trace limestone, medium gray, fine crystalline, dense.

4260 - 4270 As above.

4270 - 4280 As above.

4280 - 4290 Shale, red-brown, and brown; little gray, green, lavendar, calcareous, micaceous, silty; disseminated gypsum; trace limestone, buff, fine crystalline, dense.

4290 - 4300 As above; no limestone.

4300 - 4310 As above.

<u>Weight on bit 45,000#, Pump pressure 650#, RPM 120, Mud weight 9.7#, vis. 40.</u>

4310 - 4320 Shale, red-brown, brown, lavendar, gray, green, calcareous, silty, micaceous; some disseminated gypsum.

4320 - 4330 As above; trace limestone, gray, fine crystalline, slightly sandy.

4330 - 4340 As above.

4340 - 4350 As above; little sandstone, gray, brown, fine grain, calcareous.

4350 - 4360 Shale, as above; trace sandstone as above.

4360 - 4370 Shale, as above; little limestone, light gray, fine crystalline, soft, slightly sandy.

4370 - 4380 Shale, red-brown, brown, lavender, gray, green, calcareous, silty, micaceous; disseminated gypsum; trace limestone as above.

4380 - 4390 Shale, as above; little sandstone, fine to course grain, sub-angular, arkosic; biotite and feldspar, calcareous.

4390 - 4400 MISSING SAMPLE.

4400 - 4410 Shale, as above; trace sandstone as above.

4410 - 4420 Shale, as above.

4420 - 4430 As above.

4430 - 4440 As above.

4440 - 4450 As above.

Mud weight 10.1#, vis. 36.

4450 - 4460 Shale, brown, gray, green, red-brown, silty, calcareous, micaceous; trace limestone, gray, fine crystalline; little sandstone, gray to brown, medium grain, sub-angular, calcareous; trace gypsum.

4460 - 4470 Shale, as above; trace sandstone, as above; trace gypsum.

4470 - 4480 Shale, medium gray, calcareous, silty, micaceous; trace shale, as above.

4480 - 4490 As above.

4490 - 4500 As above; more shale, brown, green, red-brown.

4500 - 4510 Shale, gray as above; little sandstone, medium gray, fine to medium grain, sub-rounded, calcareous.

4510 - 4520 Shale, gray as above; trace gray, brown limestone, fine crystalline; trace sandstone as above.

4520 - 4530 Shale, gray, calcareous, silty, micaceous, and sandstone, medium gray, fine to medium grain, sub-rounded, calcareous.

4530 - 4540 Shale, as above; trace sandstone as above.

4540 - 4550 Shale, gray as above; little sandstone as above; trace shale, brown, calcareous, silty, micaceous.

Kelly washed out. Replaced with new one. Geolograph replaced with new one.

Mud weight 10#, vis. 34. Pump pressure 650#, Weight on bit 45,000#, RPM 120.

4550 - 4560 Sandstone, light gray, fine grain, sub-rounded, calcareous; trace shale, gray, calcareous, silty, slightly micaceous; trace limestone, medium gray, fine crystalline, sandy.

4560 - 4570 Sandstone as above, and shale, as above; trace limestone as above.

4570 - 4580 As above.

4580 - 4590 Shale, as above and limestone, gray, fine crystalline, sandy; trace sandstone, as above.

4590 - 4600 Shale, gray, calcareous, silty, slightly micaceous; little limestone, gray, fine crystalline, sandy; little sandstone, light gray, fine grain, sub-rounded, calcareous.

4600 - 4610 Limestone, as above and shale as above; trace sandstone as above.

4610 - 4620 As above.

4620 - 4630 Sandstone, light to medium gray, fine grain, sub-rounded, calcareous, slightly micaceous; shale, gray, calcareous, micaceous, silty; trace limestone, light gray, fine crystalline, dense, sandy.

4630 - 4640 Shale, as above; little sandstone, as above; trace limestone as above.

4640 - 4650 Limestone, light to medium gray, sandy, fine crystalline, dense; little shale, as above; trace sandstone, as above.

<u>Top Harrison 4645?</u>
<u>Converting to gypsum base mud</u>.

4650 - 4660 Limestone, light gray, fine crystalline, dense, sandy; little shale, gray, sandy, calcareous; trace sandstone, light gray, fine grain, calcareous.

4660 - 4670 As above.

4670 - 4680 Limestone, as above; little siltstone, light gray, calcareous, micaceous.

4680 - 4690 Limestone as above; little siltstone, as above.

4690 - 4700 Limestone, as above; little shale, gray, calcareous, silty, micaceous; trace siltstone, as above.

4700 - 4710 Shale, gray as above; little limestone, as above.

4710 - 4720 As above.

4720 - 4730 As above; trace limestone, as above.

4730 - 4740 Shale, as above, and siltstone, medium gray, calcareous, micaceous; limestone, light gray, fine crystalline, dense, sandy, some chalky.

4740 - 4750 As above.

4750 - 4760 As above.

4760 - 4770 Shale, lavender, calcareous, sandy; trace shale; limestone and siltstone, as above.

Samples from 4650 to 4770 are very poor. This section was drilled while converting to gypsum base mud with viscosity ranging from 29 to 32. Mud weight 9.0 - 9.3. Encountered water flow (fresh) @ 4650 after trip. Water is probably coming from up the hole, Chinle. Had trouble coming out of hole for bit #26 and probably removed filter cake in this section.

4770 - 4780 Shale, varicolored, calcareous, silty; trace limestone, light gray, fine crystalline, slightly sandy.

4780 - 4790 As above.

4790 - 4800 Limestone, light to medium gray, fine crystalline, slightly sandy; little shale, as above.

4800 - 4810 As above.

4810 - 4820 As above.

4820 - 4830 Shale, dark gray, calcareous, silty, micaceous; trace limestone, as above.

4830 - 4840 Shale, as above; some limestone, medium gray, fine crystalline, sandy.

4840 - 4850 As above.

4850 - 4860 Shale, medium gray, calcareous, silty, slightly micaceous; little sandstone, light gray, fine to course grain, sub-rounded, calcareous.

4860 - 4870 As above.

4870 - 4880 Shale, as above; trace sandstone, as above; trace limestone, light gray, fine crystalline, slightly sandy.

4880 - 4890 Shale, as above and limestone, as above; trace sandstone, as above.

4890 - 4900 Limestone, as above; little shale, dark gray, micaceous, calcareous; little sandstone, light gray, medium grain, calcareous, sub-rounded.

Mud weight 9.5#, vis. 34, weight on bit 45,000#, Pump pressure 400# RPM 65.

4900 - 4910 Limestone, light gray, fine crystalline, sandy; little sandstone, medium gray, fine to medium grain, sub-rounded, calcareous.

4910 - 4920 Sandstone, as above, and shale, medium to dark gray, calcareous, micaceous; trace limestone, as above.

4920 - 4930 Shale, as above; trace sandstone, as above; trace limestone, as above.

4930 - 4940 Shale, as above; some sandstone, light gray, fine grain, calcareous; trace limestone, as above.

4940 - 4950 Shale, as above; trace sandstone, as above; little limestone, light gray, fine crystalline, slightly sandy.

4950 - 4960 Shale, medium to dark gray, calcareous, micaceous; little limestone, medium gray, fine crystalline, slightly sandy; trace sandstone, light gray, fine grain, calcareous.

4960 - 4970 As above.

4970 - 4980 Shale, as above; some sandstone, light gray, fine to medium grain, sub-rounded, calcareous; trace limestone, as above.

4980 - 4990 Limestone, light gray to white, fine crystalline, sandy, some chalky; little sandstone, as above; trace shale, as above.

4990 - 5000 Limestone, as above; trace sandstone, as above.

5000 - 5010 Shale, medium gray to dark gray, calcareous, silty, micaceous; trace limestone, as above; trace sandstone, as above.

5010 - 5020 Sandstone, light gray, fine grain, calcareous; little shale, as above.

5020 - 5030 Limestone, light gray, fine crystalline, dense, sandy; little sandstone, as above; trace shale, as above.

5030 - 5040 Limestone, light to medium gray, fine crystalline, sandy; little shale, medium to dark gray, calcareous, silty, micaceous; trace sandstone, as above.

5040 - 5050 Shale, as above; little limestone, as above.

5050 - 5060 Limestone, light gray, fine crystalline, very sandy, slightly shaly; little shale, medium gray, calcareous, silty, micaceous.

5060 - 5070 As above.

Vis. 34, Mud weight 9.3#, Pump pressure 400#, Weight on bit 45,000#.

Samples have been poor in general. Have had trouble with water flow and lost circulation after each trip.

5070 - 5080 Limestone, light gray, fine crystalline, sandy; little shale, medium gray, calcareous, micaceous, silty; little sandstone, light gray, fine grain, sub-rounded, calcareous.

5080 - 5090 As above.

5090 - 5100 Shale, medium - dark gray, calcareous, silty, micaceous; trace limestone as above; trace sandstone as above.

5100 - 5110 As above.

5110 - 5120 Limestone, dark gray, fine crystalline, sandy to very sandy; some shale, dark gray to black, calcareous, micaceous, silty.

5120 - 5130 Limestone as above.

5130 - 5140 Shale, dark gray to black, calcareous, very sandy; little limestone as above.

5140 - 5150 As above.

5150 - 5160 Sandstone, light gray, fine grain, sub-rounded, calcareous, slightly shaly; trace shale, as above; trace limestone, as above.

5160 - 5170 Sandstone, as above and limestone, medium gray, fine to medium crystalline, sandy.

5170 - 5180 Limestone, as above; trace sandstone, as above; trace shale, dark gray, sandy, calcareous, micaceous.

5180 - 5190 Limestone, as above; some shale, as above.

Mud weight 9.5#, Vis. 54.
Pump pressure 400#, Weight on bit 45,000#, RPM 65.

5190 - 5200 Limestone, light to medium gray, very sandy, fine to medium crystalline; little shale, medium gray, calcareous, silty, slightly micaceous.

5200 - 5210 As above.

5210 - 5220 Shale, medium to dark gray, calcareous, silty; little limestone, as above.

5220 - 5230 Shale, as above, micaceous; trace limestone as above.

5230 - 5240 As above.

5240 - 5250 Shale, as above and limestone, light to medium gray, fine crystalline, slightly silty, dense.

5250 - 5260 Sandstone, light gray, fine grain, calcareous; some limestone, as above; trace shale, as above.

5260 - 5270 Sandstone, as above; trace limestone, as above; trace shale, as above.

5270 - 5280 Limestone, light to medium gray, fine crystalline, sandy; trace sandstone, as above; trace shale, as above.

5280 - 5290 As above.

5290 - 5300 As above; more light gray limestone.

5300 - 5310 As above.

5310 - 5320 Limestone, as above and shale, dark gray to black, calcareous, micaceous.

5320 - 5330 Shale, as above and limestone, as above, very sandy.

5330 - 5340 Limestone, as above; some shale, as above.

Mud weight 9.4#, Vis. 44, 8.6% water loss.
Weight on bit 50,000#, Pump pressure 500#, RPM 65.

5340 - 5350 Limestone, light to medium gray, fine crystalline, sandy; trace shale, dark gray, calcareous, silty, micaceous; trace sandstone, light gray, fine grain, calcareous.

5350 - 5360 As above.

5360 - 5370 As above; some limestone, light gray, very sandy.

5370 - 5380 Limestone, as above; some shale, dark gray, calcareous, micaceous, slightly silty.

5380 - 5390 Limestone, as above; little shale, dark gray, calcareous, micaceous (caving?).

5390 - 5400 Limestone, white to medium gray, fine crystalline to medium crystalline, sandy, some chalky.

5400 - 5405 Limestone, light gray, fine to medium grain, sandy; some shale, dark gray, micaceous, calcareous, silty.

5405 - 5410 Limestone, as above and shale, as above.

5410 - 5415 As above.

5415 - 5420 As above; little dark gray to black shale, calcareous, micaceous.

5420 - 5425 Limestone, light gray to gray-brown, fine to medium crystalline, sandy, and shale, dark gray to gray, black, micaceous, calcareous.

5425 - 5430 As above; little shale, black, micaceous, calcareous.

5430 - 5435 Limestone, light gray to medium gray, fine to medium crystalline; some limestone, as above; little shale, dark gray to black, calcareous, micaceous.

5435 - 5440 Limestone, dark gray, fine crystalline; little limestone, as above.

Core # 1, 5440 - 69.3, Cut 29', Rec. 29.3'.

5440 - 5441 Shale, black, dolomitic; little anhydrite, slightly micaceous, verticle fracture filled with dolomite; limestone, slightly fossiliferous.

5441 - 5442 Shale, as above; no fracture, slightly fossiliferous.

5442 - 5443 As above.

5443 - 5444 As above with granular texture.

5444- 5445 As above, very fossiliferous, fossils replaced with calcite.

5445 - 5446 As above, very fossiliferous, fossils replaced with calcite.

5446 - 5447 As above, very fossiliferous.

5447 - 5448 As above, very fossiliferous.

5448 - 5449 Limestone, medium gray-brown, fine crystalline, argillaceous, anhydritic. Looks gradational with above.

5449 - 5450 Limestone, very medium gray-black, fine crystalline, very argillaceous, anhydritic; thin shale particles, black, dolomitic, waxy.

5450 - 5451 Limestone, medium gray, fine crystalline, very dense, slightly argillaceous, slightly anhydritic.

5451 - 5452 As above; styolite filled with black shale.

5452 - 5453 Limestone, light gray, fine crystalline, anhydritic, pinpoint vugs filled with calcite.

5453 - 5454 Limestone, anhydritic, light gray, fine crystalline, slightly anhydritic, with excellent pinpoint porosity, good permeability, slight fluorescence, black salt water.

5454 - 5455 As above.

5455 - 5456 Limestone, gray, fine crystalline, very dense, slightly anhydritic, slightly argillaceous; shale inclusions.

5456 - 5457 Limestone, light gray, fine crystalline, very dense, very slightly sandy, anhydritic, very hard.

5457 - 5458 As above.

5458 - 5459 As above.

5459 - 5460 As above.

5460 - 5461 Limestone, dark gray, fine crystalline, very dense, anhydritic, argillaceous.

5461 - 5462 Limestone, light gray, fine crystalline, very dense, anhydritic, very hard.

5462 - 5463 As above.

5463 - 5464 As above.

5464 - 5465 As above.

5465 - 5466 As above.

5466 - 5467 As above.

5467 - 5468 As above.

5468 - 5469 As above.
Limestone, medium gray, fine crystalline, very dense, becoming very argillaceous.

Pump pressure 1,000#, Weight on bit 12,000#, RPM 36. Pump clutch went out. Had to pull core.
Top Paradox @ 5429'.

Core # 2, 5469.5 - 82.7, Rec. 11.5'

5469 - 5470 Limestone, light gray, fine crystalline, very clean, slightly fossiliferous; vein calcite.

5470 -5471 As above.

5471 - 5472 As above; shale filled stylolite.

5472 - 5473 As above.

5473 - 5474 As above; black shale inclusions.

5474 - 5475 Limestone, fine to medium crystalline, light gray; trace free calcite.

5475 - 5476 As above; shale inclusions.

5476 - 5477 As above.

5477 - 5478 8" very porous reef-structure limestone, very light gray; vein anhydrite.
No Show.
6" limestone as above.

5478 - 5479 Limestone, medium gray, very fine to medium grain, part shaly.

5479 - 5480 Limestone, as above, shaly; styolites filled with black shale.

5480 - 5481 As above.

5481 - 5485 MISSING SAMPLE.

5485 - 5486 Drilled to condition hole.
Limestone, as above.

Core # 3, 5486 - 94.5, Rec. 7.5'

5486 - 5487 Limestone, medium gray, fine crystalline, shaly; shale particles.

5487 - 5488 Limestone, as above, fossiliferous, brachiopod.
Limestone, as above, not shaly.

5488 - 5489 As above, slightly fossiliferous.

5489 - 5491 As above; shale partings, fossiliferous.

5491 - 5492 As above.

5492 - 5493 As above.

5493 - 5494.5 MISSING SAMPLE.

Core # 4, 5496 - 5532

5494.5 - 5499 MISSING SAMPLE.

5499 - 5500 Limestone, light gary, fine to medium crystalline, dense; little disseminated anhydrite, fossiliferous (brachiopod). N o Show.

5500 - 5501 Limestone as above; shale inclusions.

5501 - 5502 As above.

5502 - 5503 As above.

5503 - 5504 As above; shale inclusions.

5504 - 5505 Limestone, medium gray, medium crystalline, dense; little disseminated anhydrite.

5505 - 5506 As above.

5506 - 5507 As above.

5507 - 5508 As above; some gypsum crystals.

5508 - 5509 As above; shale inclusions.

5509 - 5510 As above.

5510 - 5511 Limestone, medium gray, fine to medium crystalline; some disseminated gypsum.

5511 - 5512 Limestone, as above with good pinpoint porosity and vugs; light gray calcite crystals and calcite thruout. Bleeding oil and gas with salt water?, good odor, fluorescence and cut fluorescence.

5512 - 5513 Limestone, as above; 35 - 40% calcite, good stain odor, fluorescence and cut fluorescence, bleeding oil and gas.

5513 - 5514 As above; fossils with some dead oil in vugs.

5514 - 5515 As above; less calcite.

5515 - 5516 As above.

5516 - 5517 As above.

5517 - 5518 As above; less porosity.

5518 - 5519 As above; good porosity.

5519 - 5520 As above; dead oil in some vugs.

5520 - 5521 As above; becoming tighter.

5521 - 5522 As above; light gray calcite crystals.

5522 - 5523 Limestone, medium gray, fine crystalline, dense, scattered fluorescence; shale inclusions.

5523 - 5524 Limestone, dark gray to black, fine crystalline, dense; thin shale partings. No show.

5524 - 5525 Limestone, medium gray to dark gray-black, fine crystalline, dense. No show.

5525 - 5526 As above.

5526 - 5527 Limestone, dark gray to black, fine crystalline, very dense, argillaceous. No show.

5527 - 5528 Limestone, as above; .5' chert, black, bedded; some calcareous fossils.

5528 - 5529 Limestone, dark gray to gray-black, fine crystalline, dense, slightly argillaceous.

5529 - 5532 MISSING SAMPLE.

Weight on bit 15,000#, RPM 60, Pump pressure 800#
Mud weight 9.7#, Vis. 41. Drilled from 5494.5 to 5496.

Core # 5, 5532 - 5563

5532 - 5533 Limestone, medium to dark gray, fine crystalline, dense, slightly argillaceous, slightly fossiliferous; anhydrite.

5533 - 5534 As above; brachiopods replaced with calcite; black shale partings.

5534 - 5535 Limestone, dark gray, very fine crystalline, very dense, slightly argillaceous, few anhydrite crystals.

5535 - 5536 As above; thin black shale partings, fossiliferous.

5536 - 5537 As above.

5537 - 5538 As above.

5538 - 5539 As above.

5539 - 5540 As above.

5540 - 5541 As above; thin shale partings.

5541 - 5542 As above.

5542 - 5543 Limestone, dark gray, very fine crystalline, very dense, looks micaceous but is anhydritic, argillaceous.

5543 - 5544 As above.

5544 - 5545 As above.

5545 - 5546 As above.

5546 - 5547 As above.

5547 - 5548 As above.

5548 - 5549 Limestone, dark gray to black, very fine crystalline, very dense, anhydritic, argillaceous.

5549 - 5550 As above.

5550 - 5551 As above.

5551 - 5552 Dolomite, black, very fine crystalline, very dense, anhydritic, argillaceous.

5552 - 5553 Limestone, dark gray to black, very fine crystalline, very dense, anhydritic, argillaceous.

5553 - 5554 As above.

5554 - 5555 As above, limestone, fossiliferous.

5555 - 5556 As above, fossiliferous.

5556 - 5557 As above; black shale inclusions.

5557 - 5558 Limestone, medium to dark gray, very fine to micro crystalline, argillaceous, slightly anhydritic.

5558 - 5559 As above; black shale streaks.

5559 - 5560 Limestone, medium gray, fine crystalline, dense; chert nodules, black, and some black chert disseminated thruout.

5560 - 5561 Limestone, medium gray, fine crystalline, dense, slightly dolomitic, some dull yellow fluorescence, no cut.

5561 - 5562 As above.

5562 - 5563 Limestone, medium gray, fine crystalline, very dense; some dull yellow fluorescence, no cut. May be mineral fluorescence.

<u>DST # 1, 5500 - 5563.</u> Open 1' 45", weak blow air immediately increased to strong after 5 min. Continued thruout. Gas to surface after tool shut in. Rec. 210'. 120' slight oil cut mud, 90' heavy gas cut and slightly oil cut mud. IFP 0, FFP 125, SIP 330/30".

<u>Core # 6, 5563 - 5608</u>

5563 - 5564 Limestone, medium gray, fine crystalline, dense, slightly dolomitic, slightly anhydritic. No show.

5564 - 5565 As above.

5565 - 5566 As above.

5566 - 5567 As above.

5567 - 5568 As above; stylolite filled with black shale.

5568 - 5569 As above.

5569 - 5570 Limestone, medium gray, fine crystalline, some course crystals; calcite hard, slightly anhydritic, slightly fossiliferous. No show.

5570 - 5571 As above.

5571 - 5572 As above.

5572 - 5573 As above; stylolite filled with black shale.

5573 - 5574 As above.

5574 - 5575 As above.

5575 - 5576 As above.

5576 - 5577 Limestone, medium gray, fine crystalline; vugs filled with anhydrite, no porosity, fossiliferous, matrix, very dense, Reef Breccia?

5577 - 5578 As above.

5578 - 5579 As above; some dead oil intercalated with anhydrite in vugs.

5579 - 5580 Limestone as above; vugs not completely filled with anhydrite, dead oil in vugs, spotted fluorescence in vugs and matrix cut fluorescence.

5580 - 5581 As above; more vugular porosity, Reef Breccia, stain, fluorescence and cut fluorescence, good odor, fossiliferous.

5581 - 5582 As above; fossil, coral.

5582 - 5583 As above; less porosity.

5583 - 5584 As above; good vugular porosity, some matrix has no fluorescence.

5584 - 5585 As above.

5585 - 5586 Limestone, Reef Breccia, medium gray, matrix very dense; vug partings filled with anhydrite, fossiliferous, stain, fluorescence, cut fluorescence in vugs.

5586 - 5587 As above; less porosity, stain and fluorescence.

5587 - 5588 As above; good fluorescence, stain and cut fluorescence, some fluorescence in matrix.

5588 - 5589 Dolomite, gray-brown, very fine crystalline sucrose; some fluorescent earthy, anhydrite crystals.

5589 - 5590 Dolomite, gray, brown, very fine crystalline, earthy with crystalline anhydrite inclusions up to 1" in diameter. No show. No porosity.

5590 - 5591 As above.

5591 - 5592 As above.

5592 - 5593 As above; some disseminated black shale.

5593 - 5594 Dolomite, gray-brown, fine crystalline, dense, earthy with crystalline anhydrite inclusions; disseminated black shale. No show.

5594 - 5595 As above.

5595 - 5596 As above.

5596 - 5597 As above.

5597 - 5598 As above, fossiliferous; fossils replaced with anhydrite.

5598 - 5599 As above; fossils replaced with anhydrite.

5599 - 5600 Limestone, medium gray, fine crystalline, anhydritic, dense. No show.

5600 - 5601 As above; becoming shaly.

5601 - 5602 As above; becoming more shaly.

5602 - 5603 Limestone, very dark gray, very fine crystalline, very shaly, anhydritic.

5603 - 5604 Shale, black, dolomitic, fossiliferous, anhydritic.

5604 - 5605 As above, anhydritic.

5605 - 5606 As above.

5606 - 5608 MISSING SAMPLE.

DST # 2, 5575 - 5608. Open 2 hours, weak blow air immediately and continuing thruout. Recovered 335'; 65' slight oil and gas cut mud; 90' slight oil and gas cut watery mud; 180' slight oil and gas cut muddy water. FP 0 - 300, SIP 1465/30", still climbing, IHH 2865, FHH 2830.

5608 - 5610 Black shale, dolomitic.

Core # 7, 5610 - 5644, Rec. 23.2'

5610 - 5611 Limestone, dark gray to black, fine crystalline, very argillaceous; some anhydrite, very fossiliferous, fossils replaced with anhydrite. No show.

5611 - 5612 Limestone, dark gray, fine crystalline, argillaceous, fossiliferous; some anhydrite. No show.

5612 - 5613 As above.

5613 - 5614 As above, very argillaceous.

5614 - 5615 As above, very fine crystalline.

5615 - 5616 Limestone, medium gray, fine crystalline, dense, slightly anhydritic. No show.

5616 - 5617 As above.

5617 - 5618 Upper .5' as above, lower .5' as below.

5618 - 5619 Limestone, brown, fine crystalline, oolitic, very good porosity, odor, stain, fluorescence and cut fluorescence. Bleeding oil and gas.

5619 - 5620 As above.

5620 - 5621 As above.

5621 - 5622 As above.

5622 - 5623 As above.

5623 - 5624 As above.

5624 - 5625 As above.

5625 - 5626 As above.

5626 - 5627 As above.

5627 - 5628 As above.

5628 - 5629 Limestone, brown, earthy with fewer vugs and oolites, very good saturation, odor, fluorescence and cut fluorescence. Bleeding oil and gas.

5629 - 5630 As above; some hydrocarbon residue.

5630 - 5631 As above, becoming more dense with less saturation, fluorescence and cut fluorescence.

5631 - 5642 <u>MISSING SAMPLE</u>.

5642 - 5643 Limestone, medium gray, fine crystalline, dense. No show.

5643 - 5644 As above.

<u>DST # 3, 5616 - 5644</u>. Open 2 hours, good blow immediately, increased to strong in 1 minute, gas to surface in 9", making 97 MCF in 60 minutes. Recovered 120' oil, highly gas cut and mud cut. Attempted to reverse out fluid from pipe and tool plugged. Pulled 9 stands, 810', and pipe unloaded free oil and gas. Pumped fluid in pipe into annulus and came out of hole. Estimated 10 - 20 barrels of oil came around when circulation was regained. FFP 120# - 345#, SIP 1970/30", IHH 2935#, FHH 2855#.

Core # 8, 5644 - 5675, Rec. 31'

5644 - 5645 Limestone, medium gray, fine crystalline, dense; little anhydrite. No show.

5645 - 5646 As above; black shale inclusions.

5646 - 5647 As above.

5647 - 5648 As above; black shale inclusions.

5648 - 5649 As above; black shale inclusions and fractures filled with crystalline anhydrite.

5649 - 5650 Limestone, gray-brown, fine crystalline, some vugs, spotted, saturated and fluorescent, good odor and cut fluorescence. Bleeding oil and gas.

5650 - 5651 As above.

5651 - 5652 Limestone, as above with good saturation, fluorescence, cut fluorescence, odor. Bleeding oil and gas. Porosity is in pinpoint vugs and possibly intercrystalline.

5652 - 5653 As above; spotted fluorescence and saturation.

5653 - 5654 As above; spotted fluorescence.

5654 - 5655 Limestone, gray-brown, fine crystalline, dense, with verticle hairline fractures. Bleeding oil and good fluorescence in fractures; black shale partings.

5655 - 5656 Limestone, as above, with few vugs, good saturation, fluorescence and cut fluorescence, odor, slight bleeding oil and gas.

5656 - 5657 Limestone, as above, some good vug porosity and hairline fractures, some anhydrite in vugs. Part of core is dense with no saturation or fluorescence and porosity.

5657 - 5658 Limestone, medium gray, fine crystalline, with vugs completely filled with anhydrite, no fluorescence or stain, no porosity.

5658 - 5659 Limestone, as above, no vugs, no stain or fluorescence, tight.

5659 - 5660 As above; styolite filled with black shale, fluorescence in styolite; some anhydrite crystalline.

5660 - 5661 Limestone, gray-brown, fine crystalline, with few vugs and verticle fractures, vugs and fractures have fluorescence, fair odor. Bleeding oil and gas.

5661 - 5662 As above, with spotted fluorescence thruout. Good odor, bleeding oil and gas.

5862 - 5863 Limestone, gray-brown, very fine crystalline, dense, earthy, no show, very fossiliferous, fusulinids.

5863 - 5864 As above, some good spotted fluorescence and stain, very fossiliferous, good odor.

5864 - 5865 As above, porosity if present is very angular with fluorescence and stain, as above.

5865 - 5866 As above.

5866 - 5867 As above, good saturation and fluorescence and odor.

5867 - 5868 As above.

5868 - 5869 As above, spotted saturation and fluorescence.

5869 - 5870 As above.

5870 - 5871 As above, good saturation and fluorescence, large anhydrite inclusions.

5871 - 5872 Shale, black, dolomitic, anhydritic.

5872 - 5873 Shale, black, dolomitic, anhydritic.

5873 - 5874 Limestone, medium gray, fine crystalline, some pinpoint porosity. No show.

5874 - 5875 Limestone, medium gray, fine crystalline, no porosity. No show.

<u>DST # 4, 5844 - 5875.</u> Open 4 hours, weak blow air immediately increased to fair after 1 hour and continued thruout. Recovered 1580' gas, 180' highly gas cut and slightly oil cut mud. FFP 35-75#, SIP 410/30", HH 2830-2815#.

<u>Core # 9, 5875 - 5702</u>

5875 - 5876 Limestone, medium gray, fine crystalline, dense; black shale inclusions, waxy. No show.

5876 - 5877 Limestone, light gray, fine crystalline, vuggy, some intercrystalline porosity, little spotted fluorescence, chip appears wet and earthy.

5877 - 5878 Limestone, as above with some vugs, bleeding oil and salt water, spotted fluorescence.

5878 - 5879 As above, good bleeding of oil and salt water, spotted fluorescence and stain.

5879 - 5880 As above, good bleeding of oil and gas and salt water, spotted fluorescence and stain, some good vugular porosity.

5680 - 5681 As above, very spotted fluorescence, bleeding salt water; stylolite filled with black shale.

5681 - 5682 Limestone, medium gray-brown, fine crystalline, dense, no shows; stylolites, few vugs not connected.

5682 - 5683 Limestone, medium gray, fine crystalline; shale inclusions, spotted fluorescence, some vugs. Core looks wet.

5683 - 5684 As above.

5684 - 5685 As above.

5685 - 5686 Limestone, fine to medium crystalline, gray-brown, tight. No show.

5686 - 5687 As above.

5687 - 5688 As above; black shale and anhydrite inclusions.

5688 - 5689 As above; anhydrite inclusions.

5689 - 5690 As above; shale, black and anhydrite inclusions.

5690 - 5691 Limestone, medium gray, fine crystalline, few vugs, scattered fluorescence and stain, odor, fair.

5691 - 5692 Limestone, as above, few vugs, no fluorescence and stain, slight odor.

5692 - 5693 Limestone, as above, few vugs, very scattered fluorescence and stain, dead oil.

5693 - 5694 Limestone, medium gray, fine crystalline, some large vugs, black oil, spotted fluorescence and stain, looks wet, good odor, fossiliferous.

5694 - 5695 As above but more dense, fewer vugs, matrix has little to no fluorescence.

5695 - 5696 Limestone, medium gray, fine crystalline, dense; stylolites filled with black hydrocarbon residue; few vugs filled with anhydrite.

5696 - 5697 As above; spotted stain and fluorescence.

5697 - 5698 Limestone, light gray, fine crystalline with pinpoint porosity, little spotted fluorescence and stain. Looks wet, tastes salty, fossiliferous, rugose corals.

5698 - 5699 As above, very fossiliferous, rugose corals. Good porosity in vugs and corals. Good stain and fluorescence in vugs and corals, good odor.

5699 - 5700 As above, Reef Breccia? Some anhydrite crystals in vugs.

5700 - 5701 As above with excellent porosity in corals, excellent stain and fluorescence in corals. Reef Breccia.

5701 - 5702 Upper .5' as above, lower .5' limestone, gray, fine crystalline, dense; black shale inclusions.

Lower 5' of core looks like it should give up fluid.

DST # 5, 5675 - 5702. Open 2 hours, weak blow air immediately and died in 90 minutes. Recovered 60' very slightly gas cut mud. Shut in 0 after 15 minutes then began rapid rise still rising at end of test. FFP 0 - 0, SIP 110/30", HH 2920 - 2935.

Core # 10, 5702 - 5735, Recovered 32.5'

5702 - 5703 Limestone, light gray, fine crystalline, dense, tight, fossiliferous; trace anhydrite; black shale inclusions.

5703 - 5704 As above; black shale inclusions.

5704 - 5705 As above; some anhydrite crystalline.

5705 - 5706 As above.

5706 - 5707 As above.

5707 - 5708 As above; some crystalline anhydrite.

5708 - 5709 As above; black shale inclusions; trace disseminated pyrite.

5709 - 5710 As above.

5710 - 5711 As above; black shale inclusions.

5711 - 5712 Limestone, medium gray, fine crystalline, sucrose, fossiliferous, with spotted stain and fluorescence, some pinpoint porosity.

5712 - 5713 Limestone as above, with few more vugs, bleeding oil and gas, scattered fluorescence and stain in vugs, matrix very dense.

5713 - 5714 Limestone, medium gray, fine crystalline, sucrose, very vuggy fossiliferous, vugs lined with dead oil, spotted fluorescence and stain.

5714 - 5715 As above with scattered fluorescence and stain in vugs, dead oil in vugs.

5715 - 5716 As above, becoming more dense with less stain and fluorescence.

5716 - 5717 Limestone, gray-brown, fine crystalline, dense, fossiliferous, fusilinids.

5717 - 5718 Limestone, gray-brown, fine crystalline, earthy, fossiliferous, fusilinids, some porosity crystals.

5718 - 5719 As above; some pinpoint porosity, scattered fluorescence and stain.

5719 - 5720 As above; good stain and fluorescence.

5720 - 5721 As above; spotted stain and fluorescence.

5721 - 5722 As above; very fossiliferous, good saturation, stain and fluorescence.

5722 - 5723 As above; fair spotted stain and fluorescence.

5723 - 5724 As above; fair spotted stain and fluorescence.

5724 - 5725 As above; good stain and fluorescence.

5725 - 5726 As above; No show; Tastes salty.

5726 - 5727 As above; spotted stain and fluorescence, tastes salty.

5727 - 5728 As above; no show; tastes salty.

5728 - 5729 As above; spotted fluorescence and stain, tastes salty.

5729 - 5730 As above, no show, salty.

5730 - 5731 As above, no show, salty.

5731 - 5732 As above, no show, salty.

5732 - 5733 Limestone, gray-brown, fine crystalline, earthy, very fossiliferous, fusilinids, very little porosity, no show.

5733 - 5734 As above, no show.

5734 - 5735 As above, no show.

<u>DST # 8, 5705 - 5735</u>, Open 1 hour, weak blow air decreasing to zero @ 1 hour. Recovered 150' watery mud, slightly gas cut. 300' muddy salt water. FFP 0 - 150#, SIP 1650/1', HH 2955 - 2955.

<u>Core # 11, 5735 - 5787, Recovered 37'</u>

5735 - 5736 Limestone, gray-brown, fine crystalline, sucrosic, earthy, good pinpoint and vuggy porosity, good stain, odor and fluorescence; some vugs anhydrite filled, soft.

5736 - 5737 As above.

5737 - 5738 As above, with finer porosity.

5738 - 5739 As above, with very good pinpoint and vuggy porosity.

5739 - 5740 Limestone, gray-brown, fine crystalline, sucrosic, few vugs, tight, no show.

5740 - 5741 As above, with vugs up to 1" in diameter.

5741 - 5742 Limestone, gray-brown, fine crystalline, sucrosic, few vugs, good pinpoint porosity, good stain, odor, fluorescence, with some dead oil.

5742 - 5743 As above.

5743 - 5744 Limestone, dark gray-brown, fine grain, sucrosic, no porosity, looks stained but no fluorescence, vugs up to ¼" in diameter.

5744 - 5745 As above, lighter in color.

5745 - 5759 MISSING SAMPLE?

5759 - 5760 Limestone, fine crystalline, medium gray, Reef Breccia; some course crystal anhydrite in vugs, spotted fluorescence and stain, bleeding salt water, vugs up to ¼" in diameter, fossiliferous.

5760 - 5761 As above, more brecciated stain in matrix.

5761 - 5762 As above, very spotted fluorescence and stain, bleeding salt water.

5762 - 5763 As above, fair spotted fluorescence and stain, bleeding salt water.

5763 - 5764 As above, fair spotted fluorescence and stain, bleeding salt water.

5764 - 5765 As above, with most vugs filled with anhydrite, fair spotted fluorescence and stain, bleeding salt water.

5765 - 5766 Limestone, medium gray, fine crystalline, Reef Breccia; vug partings filled with anhydrite, fair spotted fluorescence and stain, bleeding salt water.

5766 - 5767 As above; very spotted stain and fluorescence.

5767 - 5768 As above, with less porosity; more anhydrite, no fluorescence.

5768 - 5769 As above, no fluorescence.

5769 - 5770 Limestone, medium grey, fine to medium crystalline, few vugs, no show, tight, fossiliferous; little anhydrite.

5770 - 5771 As above; shale partings.

5771 - 5772 As above; some disseminated shale.

5772 - 5773 As above; shale filled stylolite.

5773 - 5774 As above.

5774 - 5775 Limestone, medium gray, fine crystalline, dense; some anhydrite, no show.

5775 - 5776 Limestone, as above; large blebs of crystalline anhydrite, no show.

5776 - 5777 As above, very dense; blebs anhydrite, fossiliferous.

5777 - 5778 As above.

5778 - 5779 As above.

5779 - 5780 As above, very fossiliferous; fossils replaced with anhydrite.

5780 - 5781 As above; much crystalline anhydrite.

5781 - 5782 Limestone, dark gray, fine crystalline, dense, brecciated; matrix anhydrite, crystalline; some pyrite.

5782 - 5783 As above; no pyrite.

5783 - 5784 As above.

5784 - 5785 As above.

5785 - 5786 As above; black shale inclusions.

5786 - 5787 As above.

Barrel jammed.

Core # 12, 5787 - 5822, recovered 34'

5787 - 5788 Limestone, dark gray, fine crystalline, dense; much crystalline anhydrite, no show.

5788 - 5789 As above; some scattered bleeding and very spotted fluorescence.

5789 - 5790 As above; verticle fractures filled with anhydrite. No show.

5790 - 5791 As above; few vugs, very spotted fluorescence and stain in vugs, some dead oil.

5791 - 5792 As above; few vugs, as above, spotted fluorescence and stain in vugs, very tight in general.

5792 - 5793 Limestone, dark gray, fine crystalline, very dense; anhydrite inclusions; no pyrite. No show.

5793 - 5794 As above; verticle fractures filled with anhydrite.

5794 - 5795 Limestone, medium gray, fine crystalline, dense, argillaceous; black shale inclusions.

5795 - 5796 As above.

5796 - 5797 As above; black shale inclusions.

5797 - 5798 Limestone, dark gray-brown, fine crystalline, very argillaceous; black shale disseminated thruout.

5798 - 5799 As above; crystalline anhydrite thruout.

5799 - 5800 As above; 1" streak smoky chert.

5800 - 5801 As above; no chert.

5801 - 5802 As above; no anhydrite.

5802 - 5803 Limestone, dark gray-black, very argillaceous; flecks anhydrite.

5803 - 5804 Shale, black, dolomitic; flecks anhydrite.

5804 - 5805 As above.

5805 - 5806 As above.

5806 - 5807 As above.

5807 - 5808 As above.

5808 - 5809 As above.

5809 - 5810 As above.

5810 - 5811 As above.

5811 - 5812 As above.

5812 - 5813 As above.

5813 - 5814 As above.

5814 - 5815 As above.

5815 - 5816 As above.

5816 - 5817 As above.

5817 - 5818 Shale, black, dolomitic; flecks anhydrite.

5818 - 5819 As above.

5819 - 5820 As above.

5820 - 5821 As above.

5821 - 5822 MISSING SAMPLE.

DST # 7, 5735 - 5822. Open 1 hour, strong blow immediately decreasing to weak in 10" and continued to end of test. Recovered 1620' fluid. 450' highly oil and gas cut muddy salt water, 450' oil and gas cut muddy salt water, 720' slightly gas and oil cut salt water. FFP 205-812#, SIP 1862/1', HH 2990 - 2980.

TD 5822'. Completed drilling @ 2:25 A.M.

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Tract 164
Allottee Tribal
Lease No. 14-20-603-2056

Noted
CA
2-18-57

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)

February 6, 1957

Well No. Aneth 27-D4 is located 660 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 27

C. SE¼ SE¼ Sec. 27 (¼ Sec. and Sec. No.) 40-S (Twp.) 24-E (Range) Salt Lake (Meridian)

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

The elevation of the ~~derrick floor~~ ground above sea level is 4699 ft.
KB elevation is 4710 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)

January 20, 1957

Set two joints of 16" OD 65# 8-R SS H-40 Range 2 casing at 47', cemented to surface with 50 sx. cement.

January 29, 1957

Set 36 joints 10-3/4" OD 40.5# SS J-55 Range 2 casing at 1182', cemented to surface with 1000 sx. cement.

January 31, 1957

Tested casing with 1000# for 30 minutes, held ok.

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

Company The Pure Oil Company

Address P. O. Box 1597
Billings, Montana

By T. L. Warburton
Title Division Chief Production Clerk

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

ANETH NO. 27D4 March 11, 1957

DRILL STEM TESTS

February 28, 1957

Johnston Drill Stem Test No. 1 from 5500' to 5563', 3/4" choke on bottom, 1/4" choke on top, 63' of anchor, Packer set at 5500'. Tool open 1-3/4 hours, Shut in 1/2 hour. Small blow in 5 gallons bucket of water at start, increased to fair blow throughout test. Gas to surface as tool closed. Recovered 210' total fluid, 120' slightly oil cut mud and 90' gas and oil cut mud, very little oil. Pressures: IF -0-, FF 110, 30 minutes Shut In 360, IH 2850, FH 2880.

March 2, 1957

Johnston Drill Stem Test No. 2 from 5578' to 5608'. Tool open 2 hours, very light blow throughout test, no gas to surface. Recovered 335' fluid, 65' slightly oil and gas cut mud, 90' slightly oil and gas cut watery mud, 180' slightly oil and gas cut muddy water. Pressures: IF -0-, FF 300, Shut in 1465, Hyd. 2830.

March 3, 1957

Johnston Drill Stem Test No. 3 from 5614' to 5644'. Tool open 2 hours, shut in 30 minutes. Air blow at start. Gas to surface in 9 minutes. Estimated 97 MCF. Reversed circulation because of darkness. After pulling 9 stands, started blowing oil and gas. Flowed estimated 10 barrels oil and quit. Recovered 120' mud cut oil, very highly gas cut, below circulating sub. Pressures: IF 125, FF 350, Shut In 2040, Hyd. 2900.

March 5, 1957

Johnston Drill Stem Test No. 4 from 5644' to 5675'. Tool open 4 hours at 6:15 a.m., Shut in 30 minutes. Very light blow, increased in one hour. No gas to surface. Recovered 180' highly oil and gas cut mud. Pressures: IH 2830, IF 35, FF 75, FH 2817, Shut in 410.

March 6, 1957

Johnston Drill Stem Test No. 5 from 5675' to 5702', 27' perforated anchor. Tool open 2 hours, shut in 1/2 hour. Very small blow at start. Blow stopped after 1-1/2 hours. No gas to surface. Recovered 60' very slightly gas cut mud. Pressures: IH 2920, IF -0-, FH 2935, Shut in 110 and increasing.

March 7, 1957

Johnston Drill Stem Test No. 6 from 5702' to 5735'. Tool open one hour, Shut in one hour. Light blow at start, died in one hour. Recovered 130' muddy salt water and 300' salt water. Pressures: IH 2935, IF -0-, FF 225, FH 2935, Shut In 2080.

March 9, 1957

Johnston Drill Stem Test No. 7 from 5735' to 5822', 87' of anchor. 3/4" choke on bottom, 1" choke on top. Tool open one hour, Shut in one hour. Good blow for 10 minutes, decreased to zero in one hour. Recovered 1620' total fluid, 900' gas and oil cut muddy water, 720' salt water. Pressures: IH 2990, IF 205, FF 812, Shut In 1862, FH 2930.

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Tract 14
Allottee Tribal
Lease No. 14-20-603-2056

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)

March 11, 1957

Well No. Aneth 27b is located 660 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 27

C. SE¼ SE¼ Sec. 27 (¼ Sec. and Sec. No.) 40-S (Twp.) 24-E (Range) Salt Lake (Meridian)

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

The elevation of the ~~derrick floor~~ ground above sea level is 4699 ft.
KB elevation is 4715'.

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)

SEE ATTACHED SHEET.

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

Company The Pure Oil Company

Address P. O. Box 1597
Billings, Montana

By T. L. Warburton
Title Division Chief Production Clerk

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Tract 164
Allottee Tribal
Lease No. 14-20-603-2056

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)

March 18, 1957

Well No. Aneth 27D4 is located 660 ft. from ~~N~~ S line and 660 ft. from E ~~W~~ line of sec. 27

C. SE¼ SE¼ Sec. 27 (¼ Sec. and Sec. No.) 40-S (Twp.) 24-E (Range) Salt Lake (Meridian)

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

The elevation of the ~~derrick floor~~ ground above sea level is 4699 ft.
KB elevation is 4710 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)

5,822' Total Depth

March 11, 1957

Set 183 joints 5-1/2" OD 15.50# 8-R J-55 Range 2 casing at 5,803', cemented with 500 sacks Regular cement.

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

Company The Pure Oil Company

Address P. O. Box 1597
Billings, Montana

By T. L. Warburton
T. L. Warburton
Title Division Chief Production Clerk

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

PERFORATING AND ACIDIZING

ANETH 27D4

March 25, 1957

WELEX PERFORATED 5-1/2" OD CASING 3-13-57 FROM 5735' TO 5754' WITH FOUR JET SHOTS PER FOOT. SWABBED DOWN TO 4500', UNABLE TO LOWER FLUID LEVEL. SWABBED SALT WATER WITH TRACE OF OIL AND LITTLE GAS. SET RETAINER AT 5724' AND SQUEEZED 100 SACKS CEMENT THROUGH PERFORATIONS.

WELEX PERFORATED 5-1/2" OD CASING 3-15-57 FROM 5663' TO 5773' WITH FOUR SHOTS PER FOOT. SWABBED DOWN TO 5630'. SWABBING MUD, SLIGHTLY OIL AND GAS CUT. SHUT DOWN FOR DARKNESS. MARCH 16, 1957, OVERNIGHT FILL-UP, 200' OIL CUT MUD - 12 HOUR PERIOD. ACID JOB NO. 1, 3-16-57, DOWELL PUMPED 500 GALLONS MUD ACID THROUGH PERFORATIONS 5663' TO 5773'. ACID HIT FORMATION WITH 500 POUNDS PRESSURE, MAXIMUM PRESSURE 2900 POUNDS, PRESSURE BROKE TO 1900 POUNDS, FINAL PRESSURE 2100 POUNDS. SWABBED DOWN TO 5630' AND SHUT DOWN FOR DARKNESS. MARCH 17, 1957, OVERNIGHT FILL-UP 400' OF OIL AND ACID WATER.

WELEX PERFORATED 5-1/2" OD CASING 3-17-57 FROM 5614' TO 5653' WITH FOUR SHOTS PER FOOT. SWABBED DRY. ACID JOB NO. 2, 3-19-57, DOWELL ACIDIZED THROUGH PERFORATIONS FROM 5614' TO 5653' AND 5663' TO 5673' WITH 500 GALLONS MUD ACID. BROKE FORMATION WITH 2000 POUNDS PRESSURE, MAXIMUM PRESSURE 2500 POUNDS, MINIMUM PRESSURE 2400 POUNDS. SWABBED DOWN TO 3000' AND WELL STARTED FLOWING 3-19-57. ON 24 HOUR TEST ENDING AT 6:00 AM 3-21-57, WELL PRODUCED 196 BARRELS OIL.

ACID JOB NO. 3, 3-21-57, DOWELL ACIDIZED THROUGH PERFORATIONS 5614' TO 5653' AND 5663' TO 5673' WITH 3000 GALLONS REGULAR ACID. ACID ON VACUUM UNTIL DISPLACEMENT OIL REACHED FORMATION. AFTER OIL REACHED FORMATION, PRESSURE INCREASED TO 1400 POUNDS. OPENED WELL AT 12:00 NOON. FROM 12:00 NOON TO 1:00 AM, WELL PRODUCED 321 BARRELS OIL, FLOW GRADUALLY DECREASING, AND WELL DIED AT 1:00 AM 3-22-57. WELL SHUT IN 8:00 AM 3-22-57 TO 2:00 PM 3-23-57 DISMANTLING RIG. WELL OPENED AT 2:00 PM 3-23-57, SHUT IN PRESSURE 250 POUNDS. FLOWED 108 BARRELS OIL FROM 2:00 PM TO 5:00 PM, AVERAGE 36 BARRELS PER HOUR, FLOWING PRESSURE 75 TO 100 POUNDS. WELL SHUT IN AT 5:00 PM.

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Tract 16h
Allottee Tribal
Lease No. 14-20-603-2056

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 Perforating and 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			

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

March 25, 19 57

Well No. Aneth 27h is located 660 ft. from [N/S] line and 660 ft. from [E/W] line of sec. 27

G. SE¼ SE¼ Sec. 27 (¼ Sec. and Sec. No.) 40-S (Twp.) 24-E (Range) Salt Lake (Meridian)

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

The elevation of the ground above sea level is 4699 ft.
KB elevation is 4710'.

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)

SEE ATTACHED SHEET. 5822' TOTAL DEPTH.

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

Company The Pure Oil Company

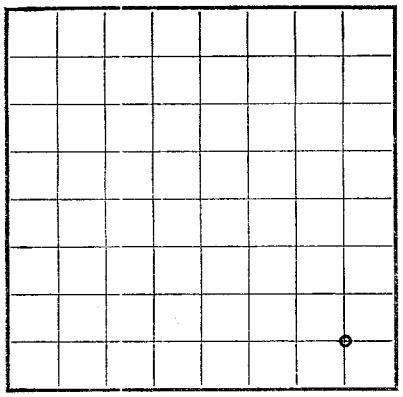
Address P. O. Box 1597
Billings, Montana

By T. L. Warburton
Title Division Chief Production Clerk

Form 9-330

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

U. S. LAND OFFICE Navajo Indian Agency
SERIAL NUMBER 14-20-603-2056
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Pure Oil Company Address P.O. Box 1597 - Billings, Montana

Lessor or Tract Tract 164 Field Aneth District State Utah

Well No. ~~27D4~~ Aneth Sec. 27 T. 40S R. 24E Meridian Salt Lake County San Juan

Location 660 ft. {N. / ~~S~~} of S Line and 660 ft. {~~E~~ / W.} of E Line of SE¼ SE¼ Elevation 4710' KB 4699' Gr. (Derrick floor relative to sea level)

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

Signed T. L. Warburton

Date April 30, 1957 Title ~~Division Chief Production Clerk~~

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

Commenced drilling January 19, 1957 Finished drilling March 9, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ____ to ____ No. 4, from ____ to ____

No. 2, from ____ to ____ No. 5, from ____ to ____

No. 3, from ____ to ____ No. 6, from ____ to ____

IMPORTANT WATER SANDS

No. 1, from ____ to ____ No. 3, from ____ to ____

No. 2, from ____ to ____ No. 4, from ____ to ____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
16"	65#	8-R	NSS	34'	Coupling				Cemented to surface.
10-3/4"	40.5#	8-R	NSS	1178'	Float				Cemented to surface.
5-1/2"	15.50#	8-R	NSS	5869'	Float		5614' 5663'	5653' 5673'	Production from Paradox Dolomite

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
16"	47'	50 sacks	Halliburton		
10-3/4"	1182'	1000 sacks	Halliburton		
5-1/2"	5803'	500 sacks	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material ____ Size ____

FOLD | MARK

16"	47'	50 sacks	Halliburton		
10-3/4"	1182'	1000 sacks	Halliburton		
5-1/2"	5803'	500 sacks	Halliburton		

FOLD | MARK

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 Zero feet to 5822 feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

..... 19..., Put to producing April 9, 1957

The production for the first 24 hours was 895 barrels of fluid of which 100 % was oil; ..... % emulsion; ..... % water, and ..... % sediment. Gravity, °Bé. 39.8

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

....., Driller ....., Driller

....., Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
-0-	50	50	Sandstone
50	280	230	Sandy shale
280	818	538	Shale
818	1163	345	Navajo sand
1163	1332	169	Sandy shale
1332	1453	121	Sand & shale
1453	1858	405	Red sandy shale
1858	2146	288	Sandy shale
2146	2420	274	Red sandy shale
2420	2707	287	Siltstone & shale
2707	3172	465	Sandy shale
3172	3414	242	Silty shale
3414	3800	386	Shale
3800	4156	356	Shale & anhydrite
4156	4581	425	Shale
4581	4676	95	Lime & shale
4676	4932	256	Lime
4932	5093	161	Limestone & shale
5093	5440	347	Lime
5440	5469	29	Core No. 1 - see reverse side.
5469	5483	14	Core No. 2 - "
5483	5486	3	Limestone
5486	5494	8	Core No. 3 - "
5494	5496	2	Limestone

FROM— TO— TOTAL FEET FORMATION

[OVER]

16—43094-4

FORMATION RECORD—Continued

MAY 2 1957

11' - No recovery.
2' - Dense gray limestone.

Core No. 8 - 5644' to 5675', Cut 31', Rec. 31'.
4' - Limestone, dense, tight.
3' - Limestone, vuggy, bleeding oil and gas.
4½' - Limestone, with fractures, bleeding oil and gas.
2' - Limestone, some vugs, bleeding oil and gas.
2½' - Limestone, dense, tight.
2' - Limestone with few vugs and fractures bleeding oil and gas.
9½' - Limestone, earthy, stain, good odor, no bleeding.
2½' - Black shale.
1' - Limestone, gray, tight.

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.

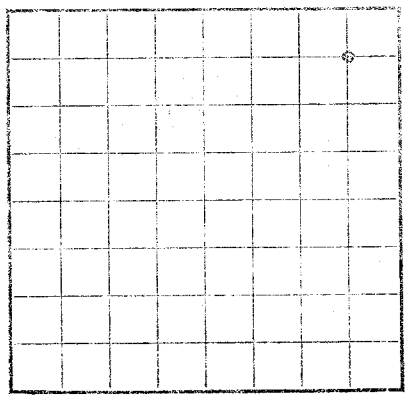
Core No. 9 - 5675' to 5702', Cut 27', Rec. 27'.
1' - Dense limestone, no show.
4' - Limestone, vuggy, spotted, bleeding oil and gas.
4' - Dense limestone, very slight bleeding oil and gas.
8' - Dense, limestone with shale partings, no show.
9½' - Limestone, vugs, slight bleeding oil and gas.
½' - Dense limestone.

Core No. 10 - 5702' to 5735', Cut 33', Rec. 33'.
10½' - Limestone, dense, with shale partings, slightly bleeding oil and gas from 5706' to 5708'.
3½' - Limestone, gray, vuggy, fair bleeding oil and gas, spotted fluorescence and stain.
1½' - Limestone, dense, tight.
17½' - Limestone, earthy, good odor, very fossiliferous, no bleeding, looks stained, good fluorescence, soft.

Core No. 11 - 5735' to 5787', Cut 52', Rec. 37'.
10' - Limestone, vugs, good odor.
15' - Missing.
10' - Limestone, vugty, spotted fluorescence, bleeding salt water.
10' - Limestone, porous, bleeding salt water.
7' - Dense limestone, some anhydrite.

Core No. 12 - 5787' to 5822' Cut 35', Rec. 34'.
6' - Limestone, gray, vuggy, porous, bleeding oil.
10' - Limestone, dense, no show.
18' - Black shale.

LOCATE WELL CORRECTLY



IMPORTANT MARKERS

Navajo	810'	(+3899')
Wingate	1244'	(+3465')
Chinle	1574'	(+3135')
Shinarump	2670'	(+2039')
Hermosa	4646'	(- 63')
Paradox	5445'	(- 736')

FORM 9-330

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
5496	5532	36	Core No. 4 - see below.
5532	5563	31	Core No. 5 "
5563	5608	45	Core No. 6 - "
5608	5610	2	Limestone
5610	5644	34	Core No. 7 - "
5644	5675	31	Core No. 8 - "
5675	5702	27	Core No. 9 - "
5702	5735	33	Core No. 10 - "
5735	5787	52	Core No. 11 - "
5787	5822	35	Core No. 12 - "
		5822	TOTAL DEPTH
		5724	PLUG BACK TOTAL DEPTH

Core No. 1 - 5440' to 5469', Cut 29', Rec. 29'.
8' - Shale, black dolomite.
21' - Limestone, gray shaly, no show. Hard & tight.

Core No. 2 - 5469' to 5483', Cut 14', Rec. 11½'.
11½' - Limestone, argillaceous with shale. No show.

Core No. 3 - 5486' to 5494', Cut 8', Rec. 7½'.
7½' - Limestone, medium grained, fairly Xlyn, very tight, slightly shaly, no show.

Core No. 4 - 5496' to 5532', Cut 36', Rec. 29'.
12' - Limestone, gray, dense, hard with occasional shale inclusions.
11' - Limestone, gray with anhydrite inclusions. Good pin point porosity and vugs up to 1/8" in diameter, bleeding oil and gas, good fluorescence in cut.
6' - Limestone, gray, dense, hard with occasional shale inclusions1

Core No. 5 - 5532' to 5563', Cut 31', Rec. 31'.
31' - Hard, tight lime, no show.

Core No. 6 - 5563' to 5608', Cut 45', Rec. 43'.
16' - Dense limestone.
3' - Vuggy limestone, oil show in vugs and matrix.
1' - Dense limestone.
6' - Vuggy limestone, oil show in vugs and matrix.
10' - Dolomite, no porosity.
4' - Dense limestone.
3' - Black shale.

Core No. 7 - 5610' to 5644', Cut 34', Rec. 23'.
7' - Limestone, dense, with anhydrite.
14' - Oolitic limestone, bleeding oil and gas, good saturation, good odor.
11' - No recovery.
2' - Dense gray limestone.

Core No. 8 - 5644' to 5675', Cut 31', Rec. 31'.
4' - Limestone, dense, tight.
3' - Limestone, vuggy, bleeding oil and gas.
4½' - Limestone, with fractures, bleeding oil and gas.
2' - Limestone, some vugs, bleeding oil and gas.
2½' - Limestone, dense, tight.

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION
P. O. BOX 1597
BILLINGS, MONTANA

April 30, 1957

Mr. Cleon B. Feight
Secretary
Oil and Gas Conservation Commission
Salt Lake City 14, Utah

Dear Mr. Feight:

Enclosed are the following reports and records pertaining to the completion of Pure-Sun-Ohio Aneth No. 27-D4, Navajo Contract No. 14-20-603-2056, located in the SE$\frac{1}{4}$ SE$\frac{1}{4}$ of Section 27, T-40-S, R-24-E, San Juan County, Utah.

One copy of Form 9-330 - Log of Oil or Gas Well. (U.S.G.S)

One copy of Schlumberger Microlaterolog.

One copy of Schlumberger Micro Log.

One copy of Schlumberger Laterolog.

One copy of Schlumberger Electrical Log.

One copy of Lane-Wells Radioactivity Log.

One copy of Geological Sample Log.

If you require any additional information on this well, we shall appreciate hearing from you.

Yours very truly,

T. L. Warburton
Division Chief Production Clerk

TLW:dk
Encls. 7

ALL QUOTATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
ALL AGREEMENTS CONTINGENT UPON STRIKES, FIRES, ACTS OF THE GOVERNMENT AND CARRIERS, AND ALL OTHER CAUSES BEYOND OUR CONTROL.

May 6, 1957

The Pure Oil Company
P. O. Box 1597
Billings, Montana

Attention: T. L. Warburton, Division Chief Production Clerk

Gentlemen:

This is to acknowledge receipt of the following reports for Well No. Pure-Sun-Ohio-Aneth 27-D4:

Form 9-330 - Log of Oil or Gas Well

Schlumberger Microlaterolog

Schlumberger Micro Log

Schlumberger Laterolog.

Schlumberger Electrical Log

Lane-Wells Radioactivity Log

Geological Sample Log

Thank you very much.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

GLEON B. FEIGHT
SECRETARY

GBF:en

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

Indian Agency Navajo

Allottee

Lease No. 14-20-603-2056

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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	X
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)

February 23, 19 62

Aneth Unit

Well No. 4427 is located 660 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 27

SE¼ of Sec. 27 (¼ Sec. and Sec. No.) 40-S (Twp.) 24-E (Range) SLM (Meridian)

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

The elevation of the derrick floor above sea level is 4710 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)

Moved in pulling unit and commenced workover 1-11-62. Set packer at 5526' and treated perforations from 5614' to 5653' and 5663' to 5673' with 500 gallons of NELST acid and 5000 gallons of emulsified acid. After completing treatment, pulled packer from 5526'. Ran 2-7/8" plastic lined tubing with Baker Injection Packer and set packer at 5534'. Put inhibitor behind packer and tested with 1000# pressure, packer tested OK. Completed workover and shut well in 1-12-62. This well is now classified as a water injection well and is shut in waiting on water injection line.

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

Company TEXACO Inc.

Address P. O. Box 810

Farmington, N. M.

By [signature]

Title District Superintendent

Form 9-331 b
(April 1952)

Copy H.L.C.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R359.4.

Indian Agency NAVAJO

Allottee

Lease No. 14-20-603-2056

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	X
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)

December 28, 1962

Aneth Unit

Well No. H427 is located 660 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 27

SE ¼ of Sec. 27 (¼ Sec. and Sec. No.) 40-S (Twp.) 24-E (Range) SLM (Meridian)

Aneth (Field) San Juan v (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 4710 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)

Commenced workover 10-8-62.

Reason for workover was to increase injectivity by opening additional zone in Subzone II.

Ran perforating gun through tubing and perforated 5-1/2" casing from 5694' to 5702' with two jet shots per foot. Put well back on injection and tested several days to see if new perforated zone would take water without treating. After determining that well would not take water in a satisfactory manner, treated all perforations through tubing with 2000 gallons of retarded acid with stabilizing agent added. Treating pressure 3700 to 3200 PSI with an injection rate of 2.4 barrels per minute. Five minute shut-in pressure 3000 PSI. Put well back on injection and on

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

Company TEXACO Inc.

Address Box 810

Farmington

By O P Eam

Title Dist. Supt.

test ending 11-1-62, injected 411 barrels of water into well in 24 hours.

JAN 14 1963

6.33.2 (w)

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-2056

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

1. OIL WELL ☐ GAS WELL ☐ OTHER: Water Injection

7. UNIT AGREEMENT NAME: Aneth Unit

2. NAME OF OPERATOR: Texaco Inc - Prod. Dept. - Rocky Mtn

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: Box 810, Farmington, N.M. 87401

9. WELL NO.: H-427

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 660 ft. f/So. + 660 ft. f/E. Line

10. FIELD AND POOL, OR WILDCAT: Aneth Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 27, 40S-24E, SLM

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4710 DF

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

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

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

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

10/71 - Backflowed approx. 75 BW & acidized w/ 750 gal. reg. acid w/ L-41, Displaced w/ 880 gal. injection water via tbg.

	PSI MAX	PSI MIN	RATE BPM	ISIP	10 MIN	Inj. Test (BWPD) Before	Inj. Test (BWPD) After
Acid	2600	1400	3	2700	2400	100 @ 2400	450 @ 2100
Flush	2950	2600	3				

Treated w/ 25 gal. biocide

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

SIGNED L. L. Eaton /ms TITLE District Superintendent DATE 2-15-72

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

USGS(3) OGCC(2) Navajo Tribe - Superior Oil Co - NNB - GLE - WLW
FARM SLC Window Rock Cortez

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)

FORM NO. DOGM-UIC-1

IN THE MATTER OF THE APPLICATION OF
Texaco Inc.
ADDRESS P. O. Box EE
Cortez, Colorado ZIP 81321
INDIVIDUAL ___ PARTNERSHIP ___ CORPORATION XX
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE Aneth Unit H427 WELL
SEC. 27 TWP. 40S RANGE 24E
San Juan COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL ☒
DISPOSAL WELL ☐

APPLICATION

Comes now the applicant and shows the Division the following:
1. That Rule 1-5 (b) 6 authorizes administrative approval of enhanced recovery injections or disposal operations.
2. That the applicant submits the following information.

Lease Name: Aneth Unit	Well No.: H427	Field: Aneth	County: San Juan
Location of Enhanced Recovery Injection or Disposal Well: SE¼ SE¼	Sec. 27	Twp. 40S	Rge. 24E
New Well To Be Drilled: Yes ☐ No XX	Old Well To Be Converted: Yes ☐ No ☒	Casing Test: Yes ☒ No ☐ Date 1-29-77	
Depth-Base Lowest Known Fresh Water Within ½ Mile: 1180'	Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile: YES XX NO ☐	State What: Oil & Gas	
Location of Injection Source(s): Aneth Unit Producing Wells & San Juan River	Geologic Name(s) and Depth of Source(s): Desert Creek & Ismay +/- 5600'		
Geologic Name of Injection Zone: Paradox: Desert Creek	Depth of Injection Interval: 5614 to 5702		
a. Top of the Perforated Interval: 5614'	b. Base of Fresh Water: 1180'	c. Intervening Thickness (a minus b): 4434'	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? (YES) NO			
Lithology of Intervening Zones: Sandstone, limestone & anhydrite w/intermittent shale layers			
Injection Rates and Pressures: Maximum 2,000 B/D; 2,500 PSI			

The Names and Addresses of Those To Whom Copies of This Application and Attachments Have Been Sent

The Navajo Tribe
Box 146
Window Rock, Arizona 86515

State of Colorado)
County of Montezuma)

Alvin R. Mary Field Supt.
Applicant

Before me, the undersigned authority, on this day personally appeared Alvin R. Mary 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.

Subscribed and sworn to before me this 16th day of Dec, 19 83

SEAL

My commission expires 10/23/87

Joe D. Roybal
Notary Public in and for Colorado
728 N. Beech, Cortez, Co. 81321

(OVER)

FORM DOGM-UIC-1 (continued)

INSTRUCTIONS

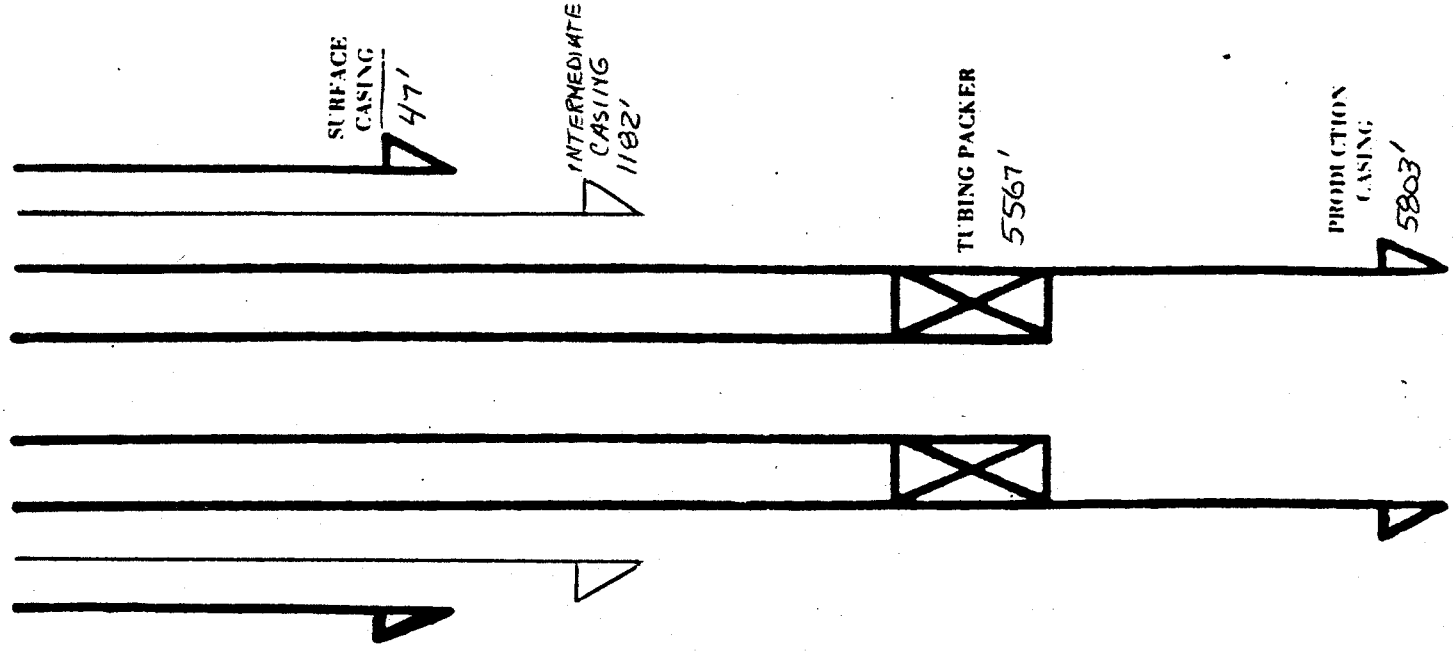
1. Attach qualitative and quantitative analysis of fresh water from 2 or more producing wells within 1 mile of injection well showing location of wells and date samples were taken, or statement as to why samples were not submitted.
2. Attach qualitative and quantitative analysis of representative sample of water to be injected.
3. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within ½ mile, together and with name of operator.
4. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division.)
5. Attach Electric or Radioactivity Log of Subject well (if released).
6. 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.
7. The original and 6 copies of application, and one complete set of attachments shall be mailed to the Division.
8. Deliver 1 copy of application to landowner on whose land injection well is located and to each operator of a producing leasehold within ½ mile of injection well.
9. Affidavit of mailing or delivery shall be filed not later than five days after the application is filed.
10. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county in which the well is located. The Division shall file proof of publication before the application is approved. The notice shall include 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 will be approved administratively.
11. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed September 1st, each year.
12. 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.
13. If there is less intervening thickness required by Rule I-5 (b) 4 attach sworn evidence and data.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	16"	47'	NA	NA	–
Intermediate	10¾"	1182'	NA	NA	–
Production	5½"	5803'	500	NA	–
Tubing	2⅜"	5567'	Name - Type - Depth of Tubing Packer: Baker - Loc-Set - 5567'		

Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval	Depth - Base of Inj. Interval
5822'	Desert Creek	5614'	5702'

SKETCH - SUBSURFACE FACILITY



FORM DOGM-UIC-2
(Rule I-5 (b) 2

PLEASE TYPE OR USE BLACK INK ONLY

(To be filed within 30 days after drilling is completed) 14-20-603-2056 COUNTY LEASE NO.

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

API NO

640 Acres

Locate Well Correctly and Outline Lease

COUNTY San Juan SEC. 27 TWP. 40S RGE. 24E
COMPANY OPERATING Texaco Inc.
OFFICE ADDRESS P O Box EE
TOWN Cortez STATE ZIP Colo 81321
FARM NAME Aneth Unit WELL NO. H427
DRILLING STARTED 1-19 1957 DRILLING FINISHED 3-9 1957
DATE OF FIRST PRODUCTION 4-9-57 COMPLETED 4-9-57
WELL LOCATED C X SE ¼ SE ¼
660 FT. FROM SL OF X SEC. & 4620 FT. FROM WL OF X SEC.
ELEVATION [redacted] 4710'KB GROUND 4699'

TYPE COMPLETION
Single Zone Desert Creek Order No.
Multiple Zone Order No.
Comingled Order No.
LOCATION EXCEPTION Order No. Penalty

OIL OR GAS ZONES

Name	From	To	Name	From	To
Desert Creek	5610	5806			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt	Grade	Feet	Psi	Sax	Fillup	Top
16"	NA	NA	47'	NA	NA	–	NA
10¾"	NA	NA	1182	NA	NA	–	NA
5½"	15.5#/ft	J	5803	NA	500	–	NA

TOTAL DEPTH 5822'

PACKERS SET DEPTH 5567'KB

COMPLETION & TEST DATA BY PRODUCING FORMATION

	1	2	3
FORMATION	Desert Creek	~~Ismay~~	
SPACING & SPACING ORDER NO.	40 acre	40 acre	
CLASSIFICATION (Oil; Gas; Dry; Inj. Well)	Oil	Inj	
PERFORATED	5614-53, 5663-73	(10-8-62) 5694-5702	
INTERVALS			
ACIDIZED?	Acidized w/1000 gal mud acid and 3000 gal 15% XFW	Acidized w/2000 gal retarded acid	
FRACTURE TREATED?	No		

INITIAL TEST DATA

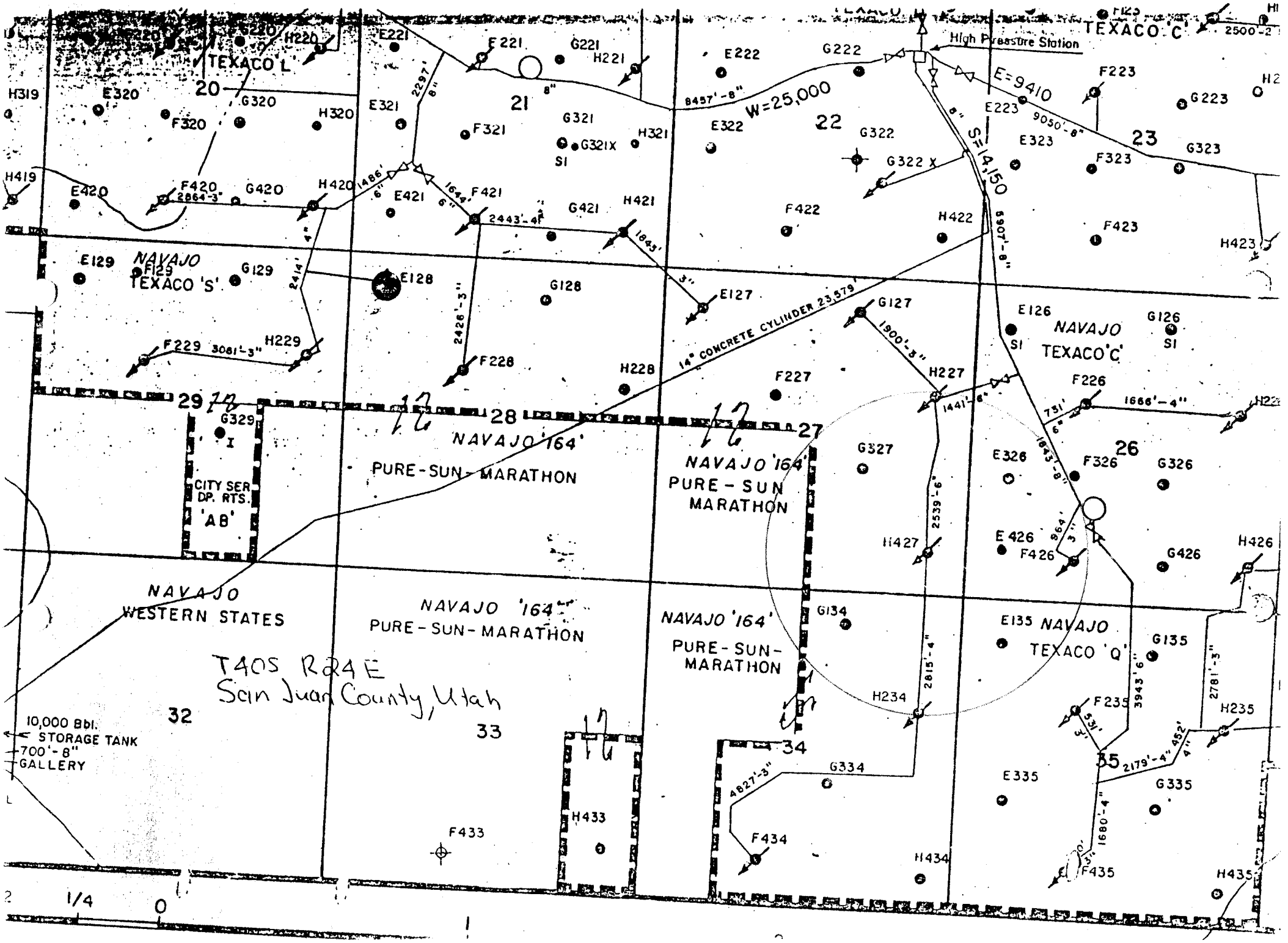
		(Treat & Inj thru all Perfs)	
Date	4-9-57	11-1-62	
Oil, bbl./day	900	–	
Oil Gravity	39.8	–	
Gas, Cu. Ft./day	643,200 CF	– CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	720	–	
Water-Bbl./day	0	411 BWIPD	
Pumping or Flowing	Flowing	Injecting	
CHOKE SIZE	1"	N/A	
FLOW TUBING PRESSURE	150#	NA	

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

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

Telephone 1-303-565-8401 John R Mann Field Supt.
Name and title of representative of company

State of Colorado
County of Montezuma
Subscribed and sworn before me this 16th day of December, 19 83.
Joe D. Roybal
My Commission expires 10/25/87
728 N. Beech, Cortez, Co. 81321


TEXACO 'L'
TEXACO 'C'
High Pressure Station
E=9410
W=25,000
S=14,150
NAVAJO
TEXACO 'S'
NAVAJO
TEXACO 'C'
14" CONCRETE CYLINDER 23,579'
NAVAJO '164'
PURE-SUN-MARATHON
CITY SER DP. RTS. 'AB'
NAVAJO
WESTERN STATES
NAVAJO
TEXACO 'Q'
T40S R24E
San Juan County, Utah
10,000 Bbl. STORAGE TANK
700'-8" GALLERY
20
21
22
23
26
27
28
29
32
33
34
35

FORM S-4510 78

TEXACO

☐ INSTRUCTIONS · CANCELS LETTER(S) OF _____ SIGNED BY _____

☐ PERMANENT ☐ ROUTINE ☐ TEMPORARY

(LOCATION) (DATE) 19__

Subject: Water Analysis from Navajo Aquifer

Aneth Unit H415
Location - SE¼ - SE¼ Sec 15, T40S, R24E
Sample Date - 1-17-59
Depth: Navajo Aquifer
Temp - 67° F
Ph - 8.7
Total Dissolved Solids - 2573 ppm

SiO_2 - 16 ppm	$CO_3^{=}$ - 130 ppm
Ca^{+} - 7 ppm	HCO_3^{-} - 156 ppm
Mg^{++} - 28 ppm	$SO_4^{=}$ - 599 ppm
Na^{+} - 76 ppm	Cl^{-} - 757 ppm

Aneth Unit G422
Location - SW¼ - SE¼ Sec 22, T40S, R24E
Sample Date - 1-18-59
Depth - Navajo Aquifer
Temp - 67°F
Ph - 9.2
Total Dissolved Solids - 2823 ppm

SiO_2 - 17 ppm	$CO_3^{=}$ - 925 ppm
Ca^{+} - 6 ppm	HCO_3^{-} - 912 ppm
Mg^{++} - 8 ppm	$SO_4^{=}$ - 265 ppm
Na^{+} - 915 ppm	Cl^{-} - 271 ppm

* Note: these numbers were obtained from Texaco Files in the Denver Division offices.

If letter requires reply prepare in triplicate, forwarding original and duplicate, and retain copy.

P.O. Box 2100
Denver, Colo.
80201

By _____

NL Treating Chemicals/NL Industries, Inc.

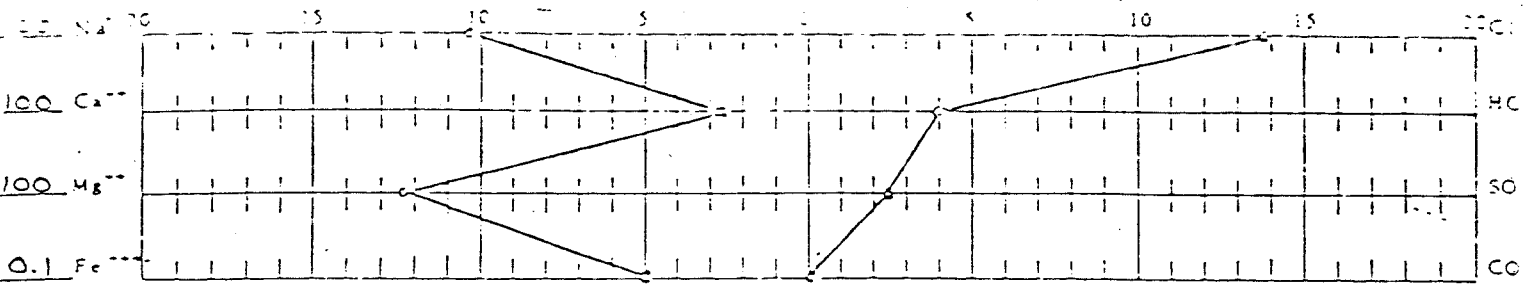
P.O. Box 1675, Houston, Texas 77001

WATER ANALYSIS REPORT

SHEET NUMBER			
COMPANY: TEXACO, INCORPORATED			DATE: 5 APRIL [illegible]
FIELD: ANETH	COUNTY OR PARISH: SAN JUAN		STATE: UTAH
LEASE OR UNIT: ANETH	WELL NAME OR NO.: INJECTION WATER	WATER SOURCE (FORMATION):	
DEPTH, FT. / BHT, F	SAMPLE SOURCE: PLANT	TEMP, F / WATER, BBL/DAY	OIL, BBL/DAY / GAS, MCF/DAY
DATE SAMPLED: 6 APRIL 1982	TYPE OF WATER: ☐ PRODUCED ☒ SUPPLY ☒ WATERFLOOD		☐ SALT WATER [illegible]

WATER ANALYSIS PATTERN

(NUMBER BESIDE ION SYMBOL INDICATES me/l SCALE UNIT)



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	392.0	
Calcium, Ca^{++}	268.0	5360.0
Magnesium, Mg^{++}	124.0	1519.0
Iron (Total) Fe^{+++}	0.5	10.0
Barium, Ba^{++}	—	0.0
Sodium, Na^{+} (calc.)	1035.1	23807.3
ANIONS		
Chloride, Cl^{-}	1360.3	48200.0
Sulfate, $SO_4^{=}$	24.5	1175.0
Carbonate, $CO_3^{=}$	0.0	0.0
Bicarbonate, HCO_3^{-}	4.0	244.0
Hydroxyl, OH^{-}	0.0	0.0
Sulfide, $S^{=}$	18.8	300.0

DISSOLVED GASES

Hydrogen Sulfide, H_2S	337.5	mg/l
Carbon Dioxide, CO_2	185.0	mg/l
Oxygen, O_2	1.0	mg/l

PHYSICAL PROPERTIES

pH	6.65	
Eh (Redox Potential)	N.D.	MV
Specific Gravity	N.D.	
Turbidity, JTU Units	N.D.	
Total Dissolved Solids (calc.)	81385.3	mg/l
Stability Index @ 77 F	-0.39	
@ 140 F	+1.32	
$CaSO_4$ Solubility @ 77 F	306.6	me/l
@ 176 F	306.8	me/l
Max. $CaSO_4$ Possible (calc.)	24.5	me/l
Max. $BaSO_4$ Possible (calc.)	1.0	mg/l
Residual Hydrocarbons	N.D.	ppm

SUSPENDED SOLIDS (QUALITATIVE)

Iron Sulfide ☐ Iron Oxide ☐ Calcium Carbonate ☐ Acid Insoluble ☐

*NOTE: me/l and mg/l are com used interchangeably for epm an respectively. Where epm and pp used, corrections should be ma specific gravity.

REMARKS AND RECOMMENDATIONS:

WATER SHOWS A TENDENCY TOWARD SCALING; PRIMARILY CALCIUM CARBONATE

NL ENGINEER	DIST. NO.	ADDRESS	OFFICE PHONE	HOME PHONE
MARK BROTHERS	12	FARMINGTON, N.M.	505-325-5701	505-325

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

* * * * * * * * *

Operator: Texaco Well No. Aneth Unit #427

County: San Juan T 40S R 24E Sec. 27 API# 43-037-16333

New Well ___ Conversion ___ Disposal Well ___ Enhanced Recovery Well ✓

	YES	NO
UIC Forms Completed	✓	
Plat including Surface Owners, Leaseholders, and wells of available record	✓	
Schematic Diagram	✓	
Fracture Information	✓	
Pressure and Rate Control	✓	
Adequate Geologic Information	✓	
Fluid Source	Desert Creek - Injection	
Analysis of Injection Fluid	Yes ✓ No ___	TDS 81385
Analysis of Water in Formation to be injected into	Yes ✓ No ___	TDS 81385
Known USDW in area	Navajo	Depth 1180
Number of wells in area of review	8 Prod. 5	P&A 0
	Water 0	Inj. 3
Aquifer Exemption	Yes ___ NA ✓	
Mechanical Integrity Test	Yes ___ No ✓	
	Date ___	Type ___

Comments: _____

Reviewed by: CMJ

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

June 12, 1987

CERTIFIED RETURN RECEIPT REQUESTED
P001 861 910

Texaco, Incorporated
Post Office Box EE
Cortez, Colorado 81321

Attn: A.A. Kleier

Gentlemen:

RE: Mechanical Integrity of Injection Wells in the Ismay-Flodine Park and Aneth Units

Recent field work and monthly reports have revealed probable tubing, packer and/or casing leaks in several injection wells located in the subject units. The following wells appear to have excessive casing pressure:

ANETH UNIT	ISMAY-FLODINE PARK UNIT
B-312	T-121
C-124	T-316
E-413	T-327
F-222	V-220
F-422	T-120
G-120	
G-136	
H-222	
H-227	
H-410	
H-427 40S 24E Sec 27	
F-423	

Please submit written notice of Texaco's efforts to maintain proper mechanical integrity in these wells, include an evaluation of existing conditions, and future plans and schedules for corrective actions.

Thank you for your continued cooperation. If you have any questions regarding this request or the operation of Class II injection wells in Utah, please call.

Sincerely,

Gil Hunt
UIC Manager

mfp
0134U/77

H-427 40S 24E Sec 27

Texaco

RECEIVED
JUL 06 1987
DIVISION OF
OIL, GAS & MINING

TEXACO INC.
P. O. BOX EE
Cortez, CO. 81321
June 30, 1987

Mr. Gil Hunt
UIC Manager
State of Utah Natural Resources
355 W. North Temple Suite 350
Salt Lake City, Utah 84180

Dear Mr. Hunt,

In response to your attached letter dated June 12, 1987, Texaco is aware that some of our injection wells at our Aneth Unit and our Ismay Flodine Park Unit have revealed probable tubing and/or packer leaks. Texaco does not feel that casing leaks have developed since the casing and tubing pressure are the same. The casing pressure would be substantially less if a casing leak were present.

Texaco is presently attempting to perform 3 to 4 UIC repairs per month depending on manpower and budget. A well with a suspected casing leak is immediately shut in to prevent any possible environmental contamination. Our plans for the remainder of 1987 are to continue to repair several wells per month until all wells experiencing annulus pressure are repaired. Please note that Aneth Unit F222, H222 and H410 were worked on and repaired in June 1987. The IFPU V220 should be corrected to U220.

Texaco realizes the importance of maintaining the integrity of our injection wells. We will continue to work toward eliminating all wells with mechanical problems and attempt to identify on going failures in a timely manner. Texaco appreciates your cooperation regarding this matter and will continue to work closely with your department in correcting any inadequacies.

Please contact the Cortez office if you have any question regarding this matter.

Sincerely,

Alan A. Kleier

Alan A. Kleier

Attachment

cc: LAA
file

Utah Division of Oil, Gas, and Mining
Casing - Bradenhead Test

Operator: TEXACO INC.

Field/Unit: GREATER ANETH

Well: H-427

Township: 40S Range: 24E Sect:27

API: 43-037-16333

Welltype: INJW Max Pressure: 2500

Lease type: INDIAN

Surface Owner: NAVAJO

Last MIT Date: 01/29/77

Witness: F Test Date: 9-20-87

CASING STRING	SIZE	SET AT	PRESSURE	OBSERVATIONS
Surface:	16	47	0	
Intermediate:	103/4	1182		
Production:	5 1/2	5803	0	
Other:		0		
Tubing:	2 3/8		2240	Rate @ 100/Day
Packer:		5567		

Recommendations:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- LCR/GIL	✓
2- DTS/DTS	✓
3- VLC	✓
4- RJF	✓
5- RWM	✓
6- LCR	✓

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

☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator XXX Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-1-91)

(TEXACO EXPLORATION AND PRODUCTION INC.)

TO (new operator) TEXACO E & P INC.
(address) 3300 NORTH BUTLER
FARMINGTON, NM 87401
BRENT HELQUIST
phone (505) 325-4397
account no. N 5700 (6-5-91)

FROM (former operator) TEXACO INC.
(address) 3300 NORTH BUTLER
FARMINGTON, NM 87401
FRANK
phone (505) 325-4397
account no. N 0980

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

Name:	API:	Entity:	Sec Twp Rng	Lease Type:
(SEE ATTACHED)				

OPERATOR CHANGE DOCUMENTATION

Lcr 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (5-28-91)

N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).

Lcr 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: #114097.

Lcr 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.

Lcr 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (6-11-91)

Lcr 6. Cardex file has been updated for each well listed above.

Lcr 7. Well file labels have been updated for each well listed above. (will update when filing)

Lcr 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.

Lcr 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.

– OVER –

OR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

Y REVIEW

. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

) VERIFICATION (Fee wells only)

1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. #K0290791-4 80,000-Ins. Co. of N. America rec. 2-11-91.

2. A copy of this form has been placed in the new and former operators' bond files.

3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___. #m157448 80,000-Ins. Co. of N. America

SE INTEREST OWNER NOTIFICATION RESPONSIBILITY

1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

2. Copies of documents have been sent to State Lands for changes involving State leases. 6-27-91

MING

1. All attachments to this form have been microfilmed. Date: July 15 1991.

ING

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.

MENTS

910606 Bfm/Farmington N.M. - Duane Spencer (505) 327-5344 will follow up & call back.
910607 Bfm/Farmington - Approved 4-2-91 "Company Merger" Includes Aneth Unit and Ismay Flodine Unit.
910607 St. Lands approved 4-15-91 "Merger".

1/34-35

ACCT NUM	COMPANY NAME	FLD NUM	FIELD NAME	TOWN SHIP	RANGE	SEC	QTR QTR	API NUMBER	PROD ZONE	WELL STATUS	ENTITY	WELL NAME
N0980	TEXACO INC	365	GREATER ANETH	S400	E240	24	NWSE	4303716111	PRDX	WIW	99990	NAVAJO TRIBE C-15 (ANETH
				S400	E240	24	SESE	4303716331	PRDX	WIW	99990	NAVAJO TRIBE C-28 (ANETH
				S400	E240	24	SENE	4303716315	DSCR	PA	99998	NAVAJO TRIBE C-26 (ANETH
				S400	E240	25	SENE	4303716124	PRDX	WIW	99990	NAVAJO TRIBE C-11 (ANETH
				S400	E240	25	SESW	4303716301	PRDX	WIW	99990	NAVAJO TRIBE C-32 (ANETH
				S400	E240	25	SESE	4303716129	PRDX	WIW	99990	NAVAJO TRIBE C-24 (ANETH
				S400	E240	25	NWNW	4303716053	PRDX	WIW	99990	NAVAJO TRIBE C-14 (ANETH
				S400	E240	25	NWSW	4303716070	PRDX	WIW	99990	NAVAJO TRIBE C-21 (ANETH
				S400	E240	25	NWNE	4303716095	HRMS	WIW	99990	NAVAJO TRIBE C-6 (ANETH G
				S400	E240	26	SENW	4303716290	PRDX	WIW	99990	NAVAJO TRIBE C-23 (ANETH
				S400	E240	26	SESW	4303716302	PRDX	WIW	99990	NAVAJO TRIBE C-4 (ANETH F
				S400	E240	26	NWNW	4303716054	PRDX	WIW	99990	NAVAJO TRIBE C-29 (ANETH
				S400	E240	26	NWNE	4303730372	DSCR	WIW	99990	ANETH G-126X
				S400	E240	26	SESE	4303716332	PRDX	WIW	99990	NAVAJO TRIBE C-31 (ANETH
				S400	E240	26	NWSE	4303716113	PRDX	WIW	99990	NAVAJO TRIBE C-27 (ANETH
				S400	E240	26	SENE	4303716316	PRDX	WIW	99990	NAVAJO TRIBE C-19 (ANETH
				S400	E240	27	SESE	4303716333	PRDX	WIW	99990	ANETH 27-D-4 (ANETH H-427
				S400	E240	27	NWNW	4303716782	PRDX	WIW	99990	ANETH 27-A-1 (ANETH E-127
				S400	E240	27	SENE	4303716317	PRDX	WIW	99990	ANETH 27-D2 (ANETH H-227)
				S400	E240	27	NWNE	4303716307	PRDX	WIW	99990	ANETH 27-C-1 (ANETH G-127
				S400	E240	28	SENE	4303716228	PRDX	WIW	99990	ANETH H-228
				S400	E240	28	SENW	4303716291	PRDX	WIW	99990	ANETH A-28-B-2 (ANETH F-2
		380	ISMAY	S400	E260	16	NESW	4303716462	PRDX	WIW	99990	STATE WOOLLEY #4 (T-316)
				S400	E260	17	NENW	4303716456	ISMY	WIW	99990	NAVAJO TRIBE J-23 (T-117)
				S400	E260	17	NESW	4303716463	HRMS	WIW	99990	NAVAJO TRIBE J-10 (T-317)
				S400	E260	17	NENE	4303716188	HRMS	WIW	99990	NAVAJO TRIBE J-5 (V-117)
				S400	E260	17	NESE	4303716192	HRMS	WIW	99990	NAVAJO TRIBE J-2 (V-317)
				S400	E260	18	NENW	4303716457	ISMY	WIW	99990	NAVAJO TRIBE K-3 (T-118)
				S400	E260	19	NENW	4303716458	ISMY	WIW	99990	NAVAJO TRIBE K-9 (T-119)
				S400	E260	21	NENE	4303716191	ISMY	WIW	99990	NAVAJO TRIBE J-7 (V-121)
				S400	E260	21	NENW	4303716460	HRMS	WIW	99990	NAVAJO TRIBE J-4 (T-121)
				S400	E260	21	SWSE	4303711267	ISMY	WIW	99990	NAVAJO TRIBE J-24 (U-421)
				S400	E260	21	NESE	4303716194	ISMY	WIW	99990	NAVAJO TRIBE J-19 (V-321)
				S400	E260	22	NENW	4303716461	ISMY	PA	99998	NAVAJO TRIBE J-20 (T-122)
				S400	E260	27	NENW	4303716232	PRDX	PA	99998	EAST ANETH 27-B1 (T-127)
				S400	E260	27	NESW	4303716233	PRDX	WIW	99990	EAST ANETH 27-B3 (T-327)
				S400	E260	28	NENE	4303716466	PRDX	PA	99998	EAST ANETH 28-D1 (V-128)
		365	GREATER ANETH	S400	E230	12	NWSE	4303730112	DSCR	WIW	99990	ANETH UNIT C-312
				S400	E230	12	NESW	4303716272	DSCR	WIW	99990	BURTON 23-12 (ANETH B312)
				S400	E230	12	NWNE	4303716274	DSCR	WIW	99990	BURTON 31-12 (ANETH C-112
				S400	E230	13	NWSW	4303730299	DSCR	WIW	99990	ANETH UNIT A-313
				S400	E230	13	SENW	4303715825	IS-DC	WIW	99990	BURTON 22-13 (ANETH B-213
				S400	E230	13	NWNW	4303730119	DSCR	WIW	99990	ANETH UNIT A-113
				S400	E230	13	NWNE	4303715827	IS-DC	WIW	99990	BURTON 31-13 (ANETH C-113
				S400	E230	13	NWSE	4303715828	PRDX	WIW	99990	BURTON 33-13 (ANETH C-313
				S400	E230	13	SESW	4303730297	DSCR	WIW	99990	ANETH B-413
				S400	E230	13	SESE	4303716279	PRDX	WIW	99990	BURTON 44-13 (ANETH D-413

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
MAY 28 1991
DIVISION OF
OIL GAS & MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: See Attached Listing

Field or Unit name: _____ API no. _____

Well location: QQ ____ section ___ township ___ range ___ county _____

Effective Date of Transfer: 6-1-91

CURRENT OPERATOR

Transfer approved by:

Name R. S. Lane
Company Texaco Inc.
Signature R S Lane
Address P. O. Box 3109
Title Attorney-in-Fact
Midland, TX 79702
Date _____
Phone (915) 688-4100

Comments: Correspondence Address: Texaco Inc.
3300 North Butler
Farmington, NM 87401
(505) 325-4397

NEW OPERATOR

Transfer approved by:

Name R. S. Lane
Company Texaco Exploration and Production Inc.
Signature R S Lane
Address P. O. Box 3109
Title Attorney-in-Fact
Midland, TX 79702
Date _____
Phone (915) 688-4100

Comments: Correspondence Address: Texaco Exploration and Production Inc.
3300 North Butler
Farmington, NM 87401
(505) 325-4397

(State use only)
Transfer approved by Gil Hunt Title UIC MANAGER
Approval Date 6-26-91

(3/89)

Texaco Exploration and Production Inc
Midland Producing Division
P O Box 3109
Midland TX 79702-3109

RECEIVED
MAY 28 1991
DIVISION OF
OIL GAS & MINING

May 22, 1991

Division of Oil, Gas, and Mining
Attn: Ms. Lisha Romero
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Gentlemen:

This is to advise that as a part of a reorganization of Texaco Inc., a Delaware corporation, the name of Texaco Producing Inc., a Delaware corporation and wholly owned subsidiary of Texaco Inc., has been changed to Texaco Exploration and Production Inc. Further, Texaco Exploration and Production Inc. will succeed to the rights, titles, interests and obligations of Texaco Inc.

This means that Texaco Exploration and Production Inc. will be the operator for all the oil and gas properties that were operated by Texaco Inc. and Texaco Producing Inc. We plan to abbreviate the name as Texaco E & P Inc. for purposes of submitting production reports, etc., via computer, and we suggest that for consistency you use that abbreviation also.

We have enclosed a Sundry Notice with a list of the wells which Texaco operates in Utah. Also attached is UIC Form 5 for transfer of injection authority. Please note that Texaco has two Divisions which operate wells in Utah. One is located in Denver, Colorado, and the other is in Midland, Texas. We have enclosed separate Sundry Notices and lists of wells for each Division. If you have questions concerning the Denver-operated wells, please call Roger Hadley at (303) 793-4833. If you have questions concerning the Midland-operated wells, please call Ken Miller at (915) 688-4834.

Please change any of your other records as necessary to reflect this change.

Yours very truly,

R S Lane

R. S. Lane
Assistant Division Manager

RKH/KMM-CC

Attachments

Form OGC-1b

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: Texaco Exploration and Production Inc.

3. ADDRESS OF OPERATOR: P.O. Box 46510, Denver, CO 80201

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

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

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

12. COUNTY OR PARISH | 13. STATE

14. PERMIT NO. | 15. ELEVATIONS (Show whether DF, RT, GR, etc.)

RECEIVED MAY 2 8 1991 DIVISION OF 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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Transfer of Owner/Operator			☐
(Other) Transfer of Plugging Bond			X	(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.)*

Texaco Inc. has assigned all its ownership rights in the subject well. As of January 1, 1991, Texaco Inc. is no longer the Operator of subject well. The New Operator Texaco Exploration and Production Inc. hereby accepts operating responsibility and liability under its good and sufficient bond or other security accepted by the Commission for proper plugging and surface restoration of the subject well.

Former Operator:

TEXACO INC.

Signed: [signature]
Attorney-In-Fact
for Texaco Inc.

Date: 3/1/91

New Operator:

Texaco Exploration and Production Inc.

Signed: [signature]

Title: Division Manager

Date: 3/1/91

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

SIGNED [signature] TITLE Division Manager DATE 3/1/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9

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

6. Lease Designation and Serial Number

7. Indian Allottee or Tribe Name

8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT— for such proposals

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other (specify)

9. Well Name and Number

2. Name of Operator
Texaco Exploration and Production Inc.

10. API Well Number

3. Address of Operator
3300 North Butler, Farmington, NM 87401

4. Telephone Number
(505) 325-4397

11. Field and Pool, or Wildcat

5. Location of Well
Footage :
QQ, Sec, T., R., M. : See Attached
County :
State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- [ ] Abandonment
- [ ] Casing Repair
- [ ] Change of Plans
- [ ] Conversion to Injection
- [ ] Fracture Treat
- [ ] Multiple Completion
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Recompletion
- [ ] Shoot or Acidize
- [ ] Vent or Flare
- [ ] Water Shut-Off
- [X] Other Transfer of Plugging Bond

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- [ ] Abandonment *
- [ ] Casing Repair
- [ ] Change of Plans
- [ ] Conversion to Injection
- [ ] Fracture Treat
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Shoot or Acidize
- [ ] Vent or Flare
- [ ] Water Shut-Off
- [X] Other Change of Operator/Operator Name

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This submittal is for a change of operator (name change) for all of the attached wells. The new operator, Texaco Exploration and Production Inc., hereby accepts operating responsibility and liability under its good and sufficient bond or other security accepted by the Department for proper plugging and surface restoration of the attached wells. All contact personnel, office addresses and phone numbers will remain the same.

FORMER OPERATOR: TEXACO INC.

SIGNED: R H Lane
Attorney-in-Fact

DATE: _____

NEW OPERATOR: TEXACO EXPLORATION AND PRODUCTION INC.

SIGNED: R H Lane
Assistant Division Manager

DATE: _____

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

Name & Signature _____ Title Asst. Div. Manager Date _____

(State Use Only)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) — Designation of Agent

Operator Name Change — X — **Merger**

The operator of the well(s) listed below has changed, effective: **05-01-2002**

FROM: (Old Operator):	**TO:** (New Operator):
TEXACO EXPLORATION & PRODUCTION INC	CHEVRON USA INC
Address: 3300 NORTH BUTLER, STE 100	Address: P O BOX 36366
FARMINGTON, NM 87401	HOUSTON,TX 79702
Phone: 1-(505)-325-4397	Phone: 1-(915)-687-2000
Account No. N5700	Account No. N0210

CA No. **Unit:** **ANETH**

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
ANETH 27-D2 (ANETH H-227)	27-40S-24E	43-037-16317	99990	INDIAN	WIW	A
ANETH 27-B2 (ANETH F-227)	27-40S-24E	43-037-16223	7000	INDIAN	WIW	I
ANETH 27-C-1 (ANETH G-127)	27-40S-24E	43-037-16307	99990	INDIAN	WIW	A
ANETH 27-D-4 (ANETH H-427)	27-40S-24E	43-037-16333	99990	INDIAN	WIW	A
ANETH 27-A-1 (ANETH E-127)	27-40S-24E	43-037-16782	99990	INDIAN	WIW	A
ANETH 28-C-1 (ANETH G-128)	28-40S-24E	43-037-16224	7000	INDIAN	WIW	A
ANETH 28-A-1 (ANETH E-128)	28-40S-24E	43-037-16222	7000	INDIAN	WIW	A
ANETH H-228	28-40S-24E	43-037-16228	99990	INDIAN	WIW	A
NAVAJO TRIBE S-2 (ANETH E-129)	29-40S-24E	43-037-16055	99990	INDIAN	WIW	A
NAVAJO TRIBE S-1 (ANETH G-129)	29-40S-24E	43-037-16097	99990	INDIAN	WIW	A
NAVAJO TRIBE S-4 (ANETH F-229)	29-40S-24E	43-037-16292	99990	INDIAN	WIW	I
NAVAJO TRIBE S-3 (ANETH H-229)	29-40S-24E	43-037-16318	99990	INDIAN	WIW	A
ANETH 34-B-4 (ANETH F-434)	34-40S-24E	43-037-16303	99990	INDIAN	WIW	A
ANETH 34-D-2 (ANETH H-234)	34-40S-24E	43-037-16319	99990	INDIAN	WIW	I
NAVAJO TRIBE Q-4 (ANETH H-235)	35-40S-24E	43-037-16320	99990	INDIAN	WIW	A
NAVAJO TRIBE Q-5 (ANETH F-235)	35-40S-24E	43-037-16293	99990	INDIAN	WIW	A
NAVAJO TRIBE Q-8 (ANETH F-435)	35-40S-24E	43-037-16304	99990	INDIAN	WIW	A
NAVAJO 4 (ANETH E-136)	36-40S-24E	43-037-15485	99990	INDIAN	WIW	A
NAV TRB 2-A (G-136)	36-40S-24E	43-037-15486	7000	INDIAN	WIW	A
NAVAJO 1 (ANETH H-236)	36-40S-24E	43-037-15487	99990	INDIAN	WIW	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-2-10) Sundry or legal documentation was received from the **FORMER** operator on: 05/06/2002
2. (R649-2-10) Sundry or legal documentation was received from the **NEW** operator on: 04/12/2002
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 10/16/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 564408-0143
5. If **NO**, the operator was contacted contacted on: N/A

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 10/11/2002

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 10/11/2002

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 10/21/2002

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 10/25/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 10/25/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

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

FEDERAL WELL(S) BOND VERIFICATION:

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

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 8975810026

FEE WELL(S) BOND VERIFICATION:

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

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

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS: Chevron USA Inc merged with Texaco Exploration & Production Inc to form ChevronTexaco Inc although all the Utah operations will be operated by Chevron USA Inc.

Chevron

Chevron U.S.A. Production Company
Mid-Continent Business Unit
P.O. Box 36366
Houston, TX 77236
Phone 713 754 2000

April 9, 2002

RECEIVED
APR 12 2002
DIVISION OF
OIL, GAS AND MINING

Mr. John Baza,
Associate Director of Oil and Gas
Utah Department of Natural Resources
Division of Oil, Gas & Mining
1594 W. North Temple St., Suite 1210
Salt Lake City, UT 84114-5801

Dear Mr. Baza:

As you may recall from our meeting last year, we planned to combine the assets of Chevron U.S.A. Inc. ("CUSA"), by merger, and Texaco Exploration and Production Inc. ("TEPI"), by assignment, into a new entity which we referred to as "Newco LP". Along the way, additional information came to light and it was decided that this proposed corporate restructure would not be preferable. Therefore, CUSA and TEPI have continued to operate as separate entities.

We are now planning a simpler restructuring process where TEPI will assign most of its assets/operatorship to CUSA effective May 1, 2002. We plan to use the existing CUSA bonds/letters of credit, operator identification numbers, etc., for the TEPI assets that will be assigned.

A task force of Land, Regulatory and Environmental Compliance personnel are finishing the work that was begun last year to assign TEPI's assets—using the same forms and procedures as before. We have "new faces" in this task force due to reassignments and departures. In some cases, it may be worthwhile to visit you and your staff in person where new people are involved or if we need to review/clarify your forms and procedures. Otherwise, we will endeavor to complete the work to assign TEPI's assets/operatorship to CUSA and deliver the requisite materials to you in a timely manner.

During discussions last year, our focus was on Land, Regulatory and Environmental matters. The Finance organization also desires to join in this effort. For State Tax, Royalty and Regulatory reporting purposes (applicable to production from May 2002 through December 2002), we intend to generate two reports and two payments.

However, the reporting company name and identification number will be CUSA's. Beginning with January 2003 production and thereafter, we will issue only one CUSA report and payment. We trust this plan meets with your approval. Any questions or comments should be directed to Rick Dunlavy (telephone 713/752-7411, rickdunlavy@chevrontexaco.com).

We appreciate the cooperation and guidance you provided us in the past, and we look forward to bringing these efforts to a conclusion.

Respectfully submitted,

Don R. Sellars

Don R. Sellars
Sr. Environmental Specialist

Chevron U.S.A. Inc.
Permian Business Unit
Aneth Operations
San Juan County, Utah

Name / Operatorship Change
Texaco Exploration and Production Inc.
to
Chevron U.S.A. Inc.
Injection Wells

Account Number	Section	Township	Range	API Number	Well Name	Lease Type	Well Status Main	Well Type Main
N5700	11	400S	230E	4303716034	MESA 1 (ANETH C411)	1	I	WI
N5700	12	400S	230E	4303716272	BURTON 23-12 (ANETH B312)	1	A	WI
N5700	12	400S	230E	4303716274	BURTON 31-12 (ANETH C-112)	1	I	WI
N5700	12	400S	230E	4303716278	BURTON 42-12 (ANETH D212)	1	A	WI
N5700	12	400S	230E	4303730049	ANETH UNIT D-412	1	A	WI
N5700	12	400S	230E	4303730112	ANETH UNIT C-312	1	A	WI
N5700	13	400S	230E	4303715825	BURTON 22-13 (ANETH B-213)	1	A	WI
N5700	13	400S	230E	4303715827	BURTON 31-13 (ANETH C-113)	1	A	WI
N5700	13	400S	230E	4303715828	BURTON 33-13 (ANETH C-313)	1	A	WI
N5700	13	400S	230E	4303715830	BURTON 42-13 (D213)	1	A	WI
N5700	13	400S	230E	4303716279	BURTON 44-13 (ANETH D-413)	1	A	WI
N5700	13	400S	230E	4303730119	ANETH UNIT A-113	1	A	WI
N5700	13	400S	230E	4303730174	ANETH UNIT D113	1	A	WI
N5700	13	400S	230E	4303730297	ANETH B-413	1	A	WI
N5700	13	400S	230E	4303730299	ANETH UNIT A-313	1	A	WI
N5700	14	400S	230E	4303716032	ARROWHEAD 6 (ANETH B-114)	1	A	WI
N5700	14	400S	230E	4303716033	ARROWHEAD 3 (ANETH C-214)	1	A	WI
N5700	14	400S	230E	4303716035	ARROWHEAD 5 (ANETH C-414)	1	A	WI
N5700	14	400S	230E	4303716038	ARROWHEAD 4 (ANETH D-314)	1	A	WI
N5700	14	400S	230E	4303716273	ARROWHEAD 2 (ANETH B-314)	1	A	WI
N5700	14	400S	230E	4303716277	ARROWHEAD 1 (ANETH D-114)	1	A	WI
N5700	23	400S	230E	4303716271	A W RICE 2 (ANETH B-123)	1	A	WI
N5700	23	400S	230E	4303716276	A W RICE 3 (ANETH C-223)	1	A	WI
N5700	24	400S	230E	4303716270	FEDERAL A-1 (ANETH A-124)	1	A	WI
N5700	24	400S	230E	4303716275	FEDERAL 1 (ANETH C-124)	1	A	WI
N5700	07	400S	240E	4303715412	W ISMY FED 3 (ANETH E307)	1	A	WI
N5700	07	400S	240E	4303715415	W ISMAY FED 2 (ANETH F-407)	1	A	WI
N5700	07	400S	240E	4303716100	NAVAJO FED 6-1 (ANETH G-307)	1	A	WI
N5700	07	400S	240E	4303716118	NAVAJO FED 7-1 (ANETH H-207)	1	I	WI
N5700	07	400S	240E	4303716283	GULF-AZTEC FED 7 (ANETH E-207)	1	A	WI
N5700	07	400S	240E	4303716322	NAVAJO TRIBE FED 5-1 (ANETH H-407)	2	A	WI

Chevron U.S.A. Inc.
Permian Business Unit
Aneth Operations
San Juan County, Utah

Name / Operatorship Change
Texaco Exploration and Production Inc.
to
Chevron U.S.A. Inc.
Injection Wells

Account Number	Section	Township	Range	API Number	Well Name	Lease Type	Well Status Main	Well Type Main
N5700	07	400S	240E	4303730175	ANETH U E407	1	A	WI
N5700	08	400S	240E	4303716060	NAVAJO TRIBE E-15 (ANETH E-308)	2	A	WI
N5700	08	400S	240E	4303716076	NAVAJO FED 8-1 (ANETH F-208)	2	A	WI
N5700	08	400S	240E	4303716101	NAVAJO TRIBE L-6 (ANETH G-308)	2	A	WI
N5700	08	400S	240E	4303716119	NAVAJO TRIBE E-16 (ANETH H-208)	2	A	WI
N5700	08	400S	240E	4303716284	NAVAJO FED 9-1 (ANETH E-208)	2	A	WI
N5700	08	400S	240E	4303716298	NAVAJO TRIBE E-13 (ANETH F-408)	2	A	WI
N5700	08	400S	240E	4303716323	NAVAJO TRIBE L-3 (ANETH H-408)	2	A	WI
N5700	09	400S	240E	4303716061	NAVAJO TRIBE E-14 (ANETH E-309)	2	A	WI
N5700	09	400S	240E	4303716082	NAVAJO TRIBE E-4 (ANETH F-409)	2	A	WI
N5700	10	400S	240E	4303716125	NAVAJO TRIBE E-7 (ANETH H-410)	2	I	WI
N5700	11	400S	240E	4303715940	ANETH UNIT E-411	2	A	WI
N5700	11	400S	240E	4303715944	NAVAJO A-10/34-11 (ANETH G-411)	2	A	WI
N5700	11	400S	240E	4303716295	NAVAJO A-12/23-11 (ANETH F-311)	2	A	WI
N5700	13	400S	240E	4303715938	NAV TRIBE A-13 (ANETH E-213)	2	A	WI
N5700	13	400S	240E	4303715941	NAVAJO A-4 (ANETH E-413)	2	A	WI
N5700	14	400S	240E	4303715939	NAVAJO A-6 (ANETH E-214)	2	A	WI
N5700	14	400S	240E	4303715942	ANETH F-314	2	A	WI
N5700	14	400S	240E	4303715943	NAVAJO A-7/32-14 (ANETH G-214)	2	A	WI
N5700	14	400S	240E	4303715945	NAVAJO A-1/34-14 (ANETH G-414)	2	A	WI
N5700	14	400S	240E	4303716310	NAVAJO A-9/41-14 (ANETH H-114)	2	A	WI
N5700	14	400S	240E	4303716421	ANETH UNIT E414	2	A	WI
N5700	14	400S	240E	4303716422	ANETH UNIT F-114	2	A	WI
N5700	14	400S	240E	4303731381	ANETH UNIT H314X	2	I	WI
N5700	15	400S	240E	4303716116	ANETH G-415	2	A	WI
N5700	15	400S	240E	4303716296	NAVAJO TRIBAL E-8 (ANETH F-315)	2	A	WI
N5700	15	400S	240E	4303730213	ANETH E-315	2	A	WI
N5700	15	400S	240E	4303730312	ANETH H-315	2	A	WI
N5700	16	400S	240E	4303715832	STATE THREE 11-16 (ANETH E-116)	3	A	WI
N5700	16	400S	240E	4303716285	ST THREE 21-16 (ANETH F-116)	3	A	WI
N5700	16	400S	240E	4303716297	ST THREE 23-16 (ANETH F-316)	3	A	WI

Chevron U.S.A. Inc.
Permian Business Unit
Aneth Operations
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Name / Operatorship Change
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Chevron U.S.A. Inc.
Injection Wells

Account Number	Section	Township	Range	API Number	Well Name	Lease Type	Well Status Main	Well Type Main
N5700	16	400S	240E	4303716312	STATE THREE 42-16 (ANETH H-216)	3	A	WI
N5700	16	400S	240E	4303720230	ANETH H-416	3	A	WI
N5700	16	400S	240E	4303730094	ANETH E-316	3	A	WI
N5700	16	400S	240E	4303730107	ANETH G-316	3	A	WI
N5700	16	400S	240E	4303730333	ANETH F-416	3	A	WI
N5700	16	400S	240E	4303730344	ANETH G-116	3	A	WI
N5700	17	400S	240E	4303716049	ANETH UNIT E-117	2	A	WI
N5700	17	400S	240E	4303716062	NAVAJO TRIBAL G-7 (ANETH E317)	2	A	WI
N5700	17	400S	240E	4303716089	NAVAJO TRIBAL G-3 (ANETH G-117)	2	A	WI
N5700	17	400S	240E	4303716103	NAVAJO TRIBAL 1-X-G (ANETH G-317)	2	A	WI
N5700	17	400S	240E	4303716286	NAVAJO TRIBAL G-8 (ANETH F-217)	2	A	WI
N5700	17	400S	240E	4303716299	NAVAJO TRIBAL G-6 (ANETH F-417)	2	A	WI
N5700	17	400S	240E	4303716313	NAV TRIBAL L-4 (ANETH H-217)	2	A	WI
N5700	17	400S	240E	4303716326	NAVAJO TRIBAL L-1 (ANETH H-417)	2	A	WI
N5700	18	400S	240E	4303715083	NAVAJO TRIBAL FED U 3	2	A	WI
N5700	18	400S	240E	4303715413	ANETH U E-118 (W ISMY FED 1)	1	A	WI
N5700	18	400S	240E	4303716063	NAVAJO TRIBAL 4 (ANETH E-318)	1	A	WI
N5700	18	400S	240E	4303716090	NAVAJO TRIBE 2 (ANETH G-118)	2	A	WI
N5700	18	400S	240E	4303716104	NAVAJO TRIBE G-4 (ANETH G-318)	2	A	WI
N5700	18	400S	240E	4303716120	NAVAJO TRIBAL G-5 (ANETH H-218)	2	A	WI
N5700	18	400S	240E	4303716287	NAVAJO FED U 1 (ANETH F-218)	2	A	WI
N5700	18	400S	240E	4303716327	NAVAJO TRIBAL G-2 (ANETH H-418)	2	A	WI
N5700	18	400S	240E	4303730137	ANETH U E218	1	A	WI
N5700	18	400S	240E	4303730155	ANETH U F118	1	A	WI
N5700	19	400S	240E	4303716077	NAVAJO TRIBE D-26 (ANETH F-219)	2	A	WI
N5700	19	400S	240E	4303716091	NAVAJO TRIBE D-16 (ANETH G-119)	2	A	WI
N5700	19	400S	240E	4303716121	NAVAJO TRIBE D-3 (ANETH H-219)	2	A	WI
N5700	19	400S	240E	4303716280	NAVAJO FED U B-1 (ANETH E-119)	2	A	WI
N5700	19	400S	240E	4303716309	NAVAJO TRIBE D-25 (ANETH G-319)	2	A	WI
N5700	19	400S	240E	4303716328	NAVAJO TRIBE D-27 (ANETH H-419)	2	A	WI
N5700	20	400S	240E	4303716050	NAVAJO TRIBE D-10 (ANETH E-120)	2	A	WI

Chevron U.S.A. Inc.
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Name / Operatorship Change
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Injection Wells

Account Number	Section	Township	Range	API Number	Well Name	Lease Type	Well Status Main	Well Type Main
N5700	20	400S	240E	4303716065	NAVAJO TRIBE D-17 (ANETH E-320)	2	A	WI
N5700	20	400S	240E	4303716092	NAVAJO TRIBE L-5 (ANETH G-120)	2	A	WI
N5700	20	400S	240E	4303716105	NAVAJO TRIBE D-12 (ANETH G-320)	2	A	WI
N5700	20	400S	240E	4303716288	NAVAJO TRIBE D-8 (ANETH F-220)	2	A	WI
N5700	20	400S	240E	4303716300	NAVAJO TRIBE D-20 (ANETH F-420)	2	A	WI
N5700	20	400S	240E	4303716314	NAVAJO TRIBE L-2 (ANETH H-220)	2	A	WI
N5700	20	400S	240E	4303716329	NAVAJO TRIBE D-13 (ANETH H-420)	2	A	WI
N5700	21	400S	240E	4303716051	NAVAJO TRIBE D-4 (ANETH E-121)	2	A	WI
N5700	21	400S	240E	4303716066	NAVAJO TRIBE D-14 (ANETH E-321)	2	A	WI
N5700	21	400S	240E	4303716078	NAVAJO TRIBE D-6 (ANETH F-221)	2	A	WI
N5700	21	400S	240E	4303716084	NAVAJO TRIBE D-21 (ANETH F-421)	2	A	WI
N5700	21	400S	240E	4303716122	NAVAJO TRIBE D-7 (ANETH H-221)	2	A	WI
N5700	21	400S	240E	4303716330	NAVAJO TRIBE D-24 (ANETH H-421)	2	A	WI
N5700	21	400S	240E	4303730095	ANETH G-321X	2	A	WI
N5700	21	400S	240E	4303730335	ANETH G-121X	2	A	WI
N5700	22	400S	240E	4303716067	NAVAJO TRIBE D-19 (ANETH E-322)	2	A	WI
N5700	22	400S	240E	4303716085	NAVAJO TRIBE D-23 (ANETH F-422)	2	A	WI
N5700	22	400S	240E	4303716117	NAVAJO TRIBE D-2 (ANETH H-122)	2	A	WI
N5700	22	400S	240E	4303716127	NAVAJO TRIBE D-22 (ANETH H-422)	2	I	WI
N5700	22	400S	240E	4303720231	ANETH G-322X	2	A	WI
N5700	22	400S	240E	4303730215	ANETH E-122	2	A	WI
N5700	22	400S	240E	4303730242	ANETH H-222	2	A	WI
N5700	22	400S	240E	4303730373	ANETH F-222	2	A	WI
N5700	22	400S	240E	4303730425	ANETH G-122	2	A	WI
N5700	23	400S	240E	4303716068	NAVAJO TRIBE C-12 (ANETH E-323)	2	A	WI
N5700	23	400S	240E	4303716079	NAVAJO TRIBE C-7 (ANETH F-223)	2	A	WI
N5700	23	400S	240E	4303716086	NAVAJO TRIBE C-17 (ANETH F-423)	2	A	WI
N5700	23	400S	240E	4303716123	NAVAJO TRIBE C-8 (ANETH H-223)	2	A	WI
N5700	23	400S	240E	4303716128	NAVAJO TRIBE C-3 (ANETH H-423)	2	A	WI
N5700	23	400S	240E	4303716306	NAVAJO TRIBE C-1 (ANETH G-123)	2	A	WI
N5700	23	400S	240E	4303730235	ANETH F-123	2	A	WI

Chevron U.S.A. Inc.
Permian Business Unit
Aneth Operations
San Juan County, Utah

Name / Operatorship Change
Texaco Exploration and Production Inc.
to
Chevron U.S.A. Inc.
Injection Wells

Account Number	Section	Township	Range	API Number	Well Name	Lease Type	Well Status Main	Well Type Main
N5700	24	400S	240E	4303716069	NAVAJO TRIBE C-10 (ANETH E-324)	2	A	WI
N5700	24	400S	240E	4303716087	NAVAJO TRIBE C-13 (ANETH F-424)	2	A	WI
N5700	24	400S	240E	4303716111	NAVAJO TRIBE C-15 (ANETH G-324)	2	A	WI
N5700	24	400S	240E	4303716289	NAVAJO TRIBE C-16 (ANETH F-224)	2	A	WI
N5700	24	400S	240E	4303716331	NAVAJO TRIBE C-28 (ANETH H-424)	2	A	WI
N5700	25	400S	240E	4303716070	NAVAJO TRIBE C-21 (ANETH E-325)	2	A	WI
N5700	25	400S	240E	4303716080	NAVAJO TRIBE C-20 (F225)	2	A	WI
N5700	25	400S	240E	4303716095	ANETH UNIT G125	2	A	WI
N5700	25	400S	240E	4303716124	NAVAJO TRIBE C-11 (ANETH H-225)	2	A	WI
N5700	25	400S	240E	4303716129	NAVAJO TRIBE C-24 (ANETH H-425)	2	A	WI
N5700	25	400S	240E	4303716301	NAVAJO TRIBE C-32 (ANETH F-425)	2	A	WI
N5700	26	400S	240E	4303716054	NAVAJO TRIBE C-29 (ANETH E-126)	2	A	WI
N5700	26	400S	240E	4303716071	NAVAJO TRIBE C-30 (ANETH E-326)	2	A	WI
N5700	26	400S	240E	4303716113	NAVAJO TRIBE C-27 (ANETH G-326)	2	A	WI
N5700	26	400S	240E	4303716290	NAVAJO TRIBE C-23 (ANETH F-226)	2	A	WI
N5700	26	400S	240E	4303716302	NAVAJO TRIBE C-4 (ANETH F-426)	2	A	WI
N5700	26	400S	240E	4303716316	NAVAJO TRIBE C-19 (ANETH H-226)	2	A	WI
N5700	26	400S	240E	4303716332	NAVAJO TRIBE C-31 (ANETH H-426)	2	A	WI
N5700	26	400S	240E	4303730372	ANETH G-126X	2	A	WI
N5700	27	400S	240E	4303716223	ANETH 27-B2 (ANETH F-227)	2	I	WI
N5700	27	400S	240E	4303716307	ANETH 27-C-1 (ANETH G-127)	2	A	WI
N5700	27	400S	240E	4303716317	ANETH 27-D2 (ANETH H-227)	2	A	WI
N5700	27	400S	240E	4303716333	ANETH 27-D-4 (ANETH H-427)	2	A	WI
N5700	27	400S	240E	4303716782	ANETH 27-A-1 (ANETH E-127)	2	A	WI
N5700	28	400S	240E	4303716222	ANETH 28-A-1 (ANETH E-128)	2	A	WI
N5700	28	400S	240E	4303716224	ANETH 28-C-1 (ANETH G-128)	2	A	WI
N5700	28	400S	240E	4303716228	ANETH H-228	2	A	WI
N5700	29	400S	240E	4303716055	NAVAJO TRIBE S-2 (ANETH E-129)	2	A	WI
N5700	29	400S	240E	4303716097	NAVAJO TRIBE S-1 (ANETH G-129)	2	A	WI
N5700	29	400S	240E	4303716292	NAVAJO TRIBE S-4 (ANETH F-229)	2	I	WI
N5700	29	400S	240E	4303716318	NAVAJO TRIBE S-3 (ANETH H-229)	2	A	WI

Chevron U.S.A. Inc.
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Name / Operatorship Change
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Injection Wells

Account Number	Section	Township	Range	API Number	Well Name	Lease Type	Well Status Main	Well Type Main
N5700	34	400S	240E	4303716303	ANETH 34-B-4 (ANETH F-434)	2	A	WI
N5700	34	400S	240E	4303716319	ANETH 34-D2 (ANETH H-234)	2	I	WI
N5700	35	400S	240E	4303716293	NAVAJO TRIBE Q-5 (ANETH F-235)	2	A	WI
N5700	35	400S	240E	4303716304	NAVAJO TRIBE Q-8 (ANETH F-435)	2	A	WI
N5700	35	400S	240E	4303716320	NAVAJO TRIBE Q-4 (ANETH H-235)	2	A	WI
N5700	36	400S	240E	4303715485	NAVAJO 4 (ANETH E-136)	2	A	WI
N5700	36	400S	240E	4303715486	NAV TRB 2-A (G136)	2	A	WI
N5700	36	400S	240E	4303715487	NAVAJO 1 (ANETH H-236)	2	A	WI
N5700	36	400S	240E	4303716294	NAVAJO 3 (ANETH F-236)	2	A	WI
N5700	19	400S	250E	4303716140	ANETH UNIT L-419	2	A	WI
N5700	29	400S	250E	4303716131	NAVAJO TRIBE F-8 (ANETH J-129)	2	A	WI
N5700	30	400S	250E	4303716132	NAVAJO TRIBE F-9 (ANETH J-130)	2	A	WI
N5700	30	400S	250E	4303716134	NAVAJO TRIBE F-5 (ANETH J-330)	2	A	WI
N5700	30	400S	250E	4303716135	NAVAJO TRIBE F-2 (ANETH K-230)	2	A	WI
N5700	30	400S	250E	4303716137	NAVAJO TRIBE F-7 (ANETH K-430)	2	A	WI
N5700	30	400S	250E	4303716139	NAVAJO TRIBE F-6 (ANETH L-330)	2	A	WI
N5700	30	400S	250E	4303716141	NAVAJO TRIBE F-10 (ANETH M-230)	2	A	WI
N5700	30	400S	250E	4303716337	NAVAJO TRIBE F-11 (ANETH M-430)	2	A	WI
N5700	31	400S	250E	4303715946	NAVAJO TRIBE C11-31 (J131)	2	A	WI
N5700	31	400S	250E	4303716335	NAVAJO TRIBE C-22-31 (ANETH K-231)	2	A	WI

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Orangeville & Huntington, Emery County, Utah (See Attached Well List)	API Number
Location of Well Footage : See attached well locations County : Emery QQ, Section, Township, Range: State : UTAH	Field or Unit Name See Attached Well List Lease Designation and Number See Attached Well List

EFFECTIVE DATE OF TRANSFER: 5/1/2002

CURRENT OPERATOR

Company: Texaco Exploration and Production Inc
Address: 3300 North Butler, Suite 100
city Farmington state NM zip 87401
Phone: (505) 325-4397
Comments:

Name: Allen S. Robinson
Signature: Allen S. Robinson
Title: Attorney-In-Fact
Date: April 30, 2002

NEW OPERATOR

Company: Chevron U.S.A. Inc.
Address: P.O. Box 36366
city Houston state TX zip 79702
Phone: (915) 687-2000
Comments:

Name: J. Scott Purdy
Signature:
Title: Attorney-In-Fact
Date: May 1, 2002

(This space for State use only)

Transfer approved by: G. Hunt
Title: Tech Services Manager

Approval Date: 10/21/02

Comments:

RECEIVED
MAY 06 2002
DIVISION OF
OIL, GAS AND MINING

(5/2000)

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached List of Wells

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: BLM & State of Utah

7. UNIT or CA AGREEMENT NAME: Orangeville & Huntington

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Operator Name Change

8. WELL NAME and NUMBER: See Attached List of Wells

2. NAME OF OPERATOR: Chevron U.S.A. Inc.

9. API NUMBER:

3. ADDRESS OF OPERATOR: P.O. Box 36366 CITY Houston STATE TX ZIP 77236 PHONE NUMBER: (281) 561-3443

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attached List of Wells

COUNTY: Emery

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

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

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

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

Effective May 1, 2002, Chevron U.S.A. Inc. is the new operator of the attached list of subject wells and leases that were previously operated by Texaco Exploration and Production Inc. The subject wells are located North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following surety bonds:

STATE OF UTAH Bond #: 103521627-0016 in the amount of $80,000. (This bond will replace United Pacific Insurance Company bond number U89-75-80-0059. We respectfully request this bond be released and returned.)

BLM Nationwide Bond#: U89-75-81-0034 in the amount of $300,000.

Key Contacts:

Ron Wirth - Operations Supervisor - 435 748-5395 x1

Texaco Exploration & Production Inc.

J. S. Purdy, Attorney-In-Fact

RECEIVED
MAY 06 2002
DIVISION OF
OIL, GAS AND MINING

NAME (PLEASE PRINT) Allen S. Robinson TITLE Attorney-In-Fact

SIGNATURE Allen S. Robinson DATE April 30, 2002

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

THE NAVAJO NATION

MINERALS DEPARTMENT
Post Office Box 1910
Window Rock, Arizona 86515
Phone: (928) 871-6587 • Fax: (928) 871-7095

KELSEY A. BEGAYE
PRESIDENT

TAYLOR McKENZIE, M.D.
VICE PRESIDENT

October 11, 2002

Mr. Don Sellars
Regulatory Specialist
ChevronTexaco
11111 S. Wilcrest
Houston, Texas 77099

Subject: Navajo Nation Assignment of Oil & Gas Lease

Dear Mr. Sellars:

Attached are fourteen (14) approved Navajo Nation Assignment of Oil and Gas Lease applications for assignment of interest from Texaco Exploration & Production, Inc. to Chevron U.S.A., Inc. (Chevron) for the following leases:

1)	I-149-IND-8834	6)	I-149-IND-8839	11)	14-20-603-4035
2)	I-149-IND-8835	7)	14-20-603-2057	12)	14-20-603-4037
3)	I-149-IND-8836	8)	14-20-603-2059	13)	14-20-603-5043-A
4)	I-149-IND-8838	9)	14-20-603-4030-A	14)	14-20-603-5446
5)	I-149-IND-8839-A	10)	14-20-603-4032		

If you have any questions, please call me or Mr. Brad Nesemeier at (928) 871-6587.

Sincerely,

Akhtar Zaman

Akhtar Zaman, Director
Minerals Department

Attachments
AZ/GLB/eab

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

X Change of Operator (Well Sold) Designation of Agent/Operator

Operator Name Change Merger

The operator of the well(s) listed below has changed, effective: **12/1/2004**

FROM: (Old Operator):	**TO:** (New Operator):
N0210-Chevron USA, Inc.	N2700-Resolute Natural Resources Company
PO Box 4791	1675 Broadway, Suite 1950
Houston, TX 77210-4791	Denver, CO 80202
Phone: 1-(713) 752-7431	Phone: 1-(303) 534-4600

CA No. **Unit:** **ANETH**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO TRIBE FED 5-1 (ANETH H-407)	07	400S	240E	4303716322	99990	Indian	WI	A
NAVAJO TRIBE L-3 (ANETH H-408)	08	400S	240E	4303716323	99990	Indian	WI	A
ANETH UNIT E414	14	400S	240E	4303716421	99990	Indian	WI	A
ANETH UNIT F-114	14	400S	240E	4303716422	7000	Indian	WI	A
NAV TRIBAL L-4 (ANETH H-217)	17	400S	240E	4303716313	99990	Indian	WI	A
NAVAJO TRIBAL L-1 (ANETH H-417)	17	400S	240E	4303716326	99990	Indian	WI	A
NAVAJO TRIBAL G-2 (ANETH H-418)	18	400S	240E	4303716327	99990	Indian	WI	A
NAVAJO TRIBE D-25 (ANETH G-319)	19	400S	240E	4303716309	99990	Indian	WI	A
NAVAJO TRIBE D-27 (ANETH H-419)	19	400S	240E	4303716328	99990	Indian	WI	A
NAVAJO TRIBE L-2 (ANETH H-220)	20	400S	240E	4303716314	99990	Indian	WI	A
NAVAJO TRIBE D-13 (ANETH H-420)	20	400S	240E	4303716329	99990	Indian	WI	A
NAVAJO TRIBE D-24 (ANETH H-421)	21	400S	240E	4303716330	99990	Indian	WI	A
NAVAJO TRIBE C-28 (ANETH H-424)	24	400S	240E	4303716331	99990	Indian	WI	A
NAVAJO TRIBE C-19 (ANETH H-226)	26	400S	240E	4303716316	99990	Indian	WI	A
NAVAJO TRIBE C-31 (ANETH H-426)	26	400S	240E	4303716332	99990	Indian	WI	A
ANETH 27-D2 (ANETH H-227)	27	400S	240E	4303716317	99990	Indian	WI	A
ANETH 27-D-4 (ANETH H-427)	27	400S	240E	4303716333	99990	Indian	WI	A
NAVAJO TRIBE S-3 (ANETH H-229)	29	400S	240E	4303716318	99990	Indian	WI	A
ANETH 34-D2 (ANETH H-234)	34	400S	240E	4303716319	99990	Indian	WI	I
NAVAJO TRIBE Q-4 (ANETH H-235)	35	400S	240E	4303716320	99990	Indian	WI	A
NAVAJO TRIBE F-11 (ANETH M-430)	30	400S	250E	4303716337	99990	Indian	WI	A
NAVAJO TRIBE C-22-31 (ANETH K-231)	31	400S	250E	4303716335	99990	Indian	WI	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 12/22/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 12/13/2004
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 11/22/2004
4. Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
5. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: _____ requested

6b. Inspections of LA PA state/fee well sites complete on: 12/20/2004

22

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA not yet

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: _____

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 12/29/2004
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 12/29/2004
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: separate list
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: B001263

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: B001264

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number B001262

2. The **FORMER** operator has requested a release of liability from their bond on: not yet
The Division sent response by letter on: _____

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NUMBER: See Attachment

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT or CA AGREEMENT NAME: Aneth Unit

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER Injection wells

8. WELL NAME and NUMBER: See Attachment

2. NAME OF OPERATOR: Resolute Natural Resources Company N2700

9. API NUMBER: See Attach

3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 534-4600

10. FIELD AND POOL, OR WILDCAT: Desert Creek

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attachment COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

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

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

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

As of December 1, 2004, Chevron U.S.A. Inc. resigned as Operator of the Aneth Unit. The successor operator is Resolute Natural Resources Company.

NAME (PLEASE PRINT) Janet Pasque TITLE Vice President

SIGNATURE Janet Pasque DATE 11/30/04

(This space for State use only)

APPROVED 12/29/2004
EL
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(5/2000) (See Instructions on Reverse Side)

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NUMBER: See attached exhibit.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT or CA AGREEMENT NAME: Aneth Unit

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER See attached exhibit.

8. WELL NAME and NUMBER: See attached exhibit.

2. NAME OF OPERATOR: Resolute Natural Resources Company

9. API NUMBER: See attached exhibit.

3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (303) 534-4600

10. FIELD AND POOL, OR WILDCAT: Aneth

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
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Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Change of operator
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

As of December 1, 2004, Chevron U.S.A. Inc. resigned as operator of the Aneth Unit. Resolute Natural Resources Company has been elected the successor operator.

RECEIVED
DEC 22 2004
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Chevron U.S.A. Inc. N0210 TITLE A. E. Wacker, Attorney-in-Fact

SIGNATURE A. E. Wacker DATE 12/20/2004

(This space for State use only)

APPROVED 12/29/2004
ER
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

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

EFFECTIVE DATE OF TRANSFER: 12/1/2004

CURRENT OPERATOR

N0210

Company: Chevron U.S.A. Inc.
Address: 1111 Bagby St.
city Houston state TX zip 77002
Phone: (713) 752-6000
Comments:

Name: A. E. Wacker
Signature: A. E. Wacker
Title: Attorney-in-Fact
Date: 12/20/2004

RECEIVED
DEC 22 2004
DIV. OF OIL, GAS & MINING

NEW OPERATOR

N2700

Company: Resolute Natural Resources Company
Address: 1675 Broadway, Suite 1950
city Denver state CO zip 80202
Phone: (303) 534-4600 xt
Comments:

Name: Janet Pappas xt
Signature: Janet Pappas
Title: Vice President
Date: 12/21/04

(This space for State use only)

Transfer approved by: David J. Mason
Title: UIC Geologist
Approval Date: 12-29-04

Comments: Transfer of Authority to Inject into the Aneth C214 and Aneth B14 contigent on this office receiving a corrective action plan for each well. ~~Both wells~~ Aneth 214 failed 5 year test on 10/13/2004 Operator would not conduct scheduled 5 year test on Aneth B14. (considered a failure).

NUM	API_NUM	Q1	Q2	SEC	TWSP	RNG	LEGAL	Lease	Status 12/1/04	NNEPA Well List	USEPA Well List	UIC Program
H222	4303730242	SE	NW	22	40S	24E		I-149-IND-8836	Active	**H222**	**H222**	Navajo Nation
F418	4303715083	SE	SW	18	T40S	R24E	650' FSL/1825' FWL	I-149-IND-8835	Active	**F418**	**F418**	Navajo Nation
E307	4303715412	NW	SW	7	T40S	R24E	1980' FSL/660' FWL	SL-067807	Active	**E307**	**E307**	Navajo Nation
E118	4303715413	NW	NW	18	T40S	R24E	660' FNL/660' FWL	SL-067807	Active	**E118**	**E118**	Navajo Nation
F407	4303715415	SE	SW	7	T40S	R24E	660' FSL/1980' FWL	SL-067807	Active	**F407**	**F407**	Navajo Nation
E136	4303715485	NW	NW	36	T40S	R24E	660' FNL/660' FWL	14-20-603-5444	Active	**E136**	**E136**	Navajo Nation
G136	4303715486	NW	NE	36	T40S	R24E	785' FNL/2040' FEL	14-20-603-5443	Active	**G136**	**G136**	Navajo Nation
H236	4303715487	SE	NE	36	T40S	R24E	1980' FNL/660' FEL	14-20-603-5443	P/A			Navajo Nation
B213	4303715825	SE	NW	13	T40S	R23E	3300' FSL/3300' FEL	SL-070968-A	Active			State of Utah
C113	4303715827	NW	NE	13	T40S	R23E	4602' FSL/1993' FEL	SL-070968-A	Active			State of Utah
C313	4303715828	NW	SE	13	T40S	R23E	1949' FSL/1991' FEL	SL-070968-A	Active			State of Utah
D213	4303715830	SE	NE	13	T40S	R23E	3263' FSL/660' FEL	SL-070968-A	Active			State of Utah
E116	4303715832	NW	NW	16	T40S	R24E	601' FNL/550' FWL	ML-3156	Active	**E116**	**E116**	Navajo Nation
E213	4303715938	SW	NW	13	T40S	R24E	2140' FNL/740' FWL	I-IND-149-8837	Active	**E213**	**E213**	Navajo Nation
E214	4303715939	SW	NW	14	T40S	R24E	1940' FNL/650' FWL	I-149-IND-8837	Active	**E214**	**E214**	Navajo Nation
E411	4303715940	SW	SW	11	T40S	R24E	500' FSL/820' FWL	I-149-IND-8837	Active	**E411**	**E411**	Navajo Nation
E413	4303715941	SW	SW	13	T40S	R24E	660' FSL/660' FWL	IND-149-8837	Active	**E413**	**E413**	Navajo Nation
F314	4303715942	NE	SW	14	T40S	R24E	1980' FSL/1980'FWL	I-149-IND-8837	Active	**F314**	**F314**	Navajo Nation
G214	4303715943	SW	NE	14	T40S	R24E	2140' FNL/2010' FEL	I-149-IND-8839	P/A			Navajo Nation
G411	4303715944	SW	SE	11	T40S	R24E	680' FSL/1950' FEL	I-149-IND-8837	Active	**G411**	**G411**	Navajo Nation
G414	4303715945	SW	SE	14	T40S	R24E	660' FSL/1980' FEL	I-149-IND-8837	Active	**G414**	**G414**	Navajo Nation
J131	4303715946	NW	NW	31	T40S	R25E	660' FNL/638' FWL	14-20-603-372	Active	**J131**	**J131**	Navajo Nation
B114	4303716032	NE	NW	14	T40S	R23E	660' FNL/1980' FWL	SL-070968	Shut-In			State of Utah
C214	4303716033	SW	NE	14	T40S	R23E	1890' FNL/1930' FEL	SL-070968	Shut-In			State of Utah
C411	4303716034	SW	SE	11	T40S	R23E	600' FSL/2010' FEL	SL-070968-B	P/A			State of Utah
C414	4303716035	SW	SE	14	T40S	R23E	760' FSL/2000' FEL	SL-070968	Active			State of Utah
D314	4303716038	NE	SE	14	T40S	R23E	1980' FSL/660' FEL	SL-070968	Active			State of Utah
E117	4303716049	NW	NW	17	T40S	R24E	520' FNL/645' FWL	I-149-IND-8835	Active	**E117**	**E117**	Navajo Nation
E120	4303716050	NW	NW	20	T40S	R24E	660' FNL/660' FWL	I-149-IND-8836	Active	**E120**	**E120**	Navajo Nation
E121	4303716051	NW	NW	21	T40S	R24E	660' FNL/760' FWL	I-149-IND-8836	Active	**E121**	**E121**	Navajo Nation
E126	4303716054	NW	NW	26	T40S	R24E	760' FNL/660' FWL	I-149-IND-8838	Active	**E126**	**E126**	Navajo Nation
E129	4303716055	NW	NW	29	T40S	R24E	660' FNL/660' FWL	14-20-603-4030	Active	**E129**	**E129**	Navajo Nation
E308	4303716060	NW	SW	8	T40S	R24E	1820' FSL/645' FWL	I-149-IND-8833	Active	**E308**	**E308**	Navajo Nation
E309	4303716061	NW	SW	9	T40S	R24E	1900' FSL/500' FWL	I-149-IND-8834	P/A			Navajo Nation
E317	4303716062	NW	SW	17	40S	24E	1980' FSL/660' FWL	I-149-IND-8835	Active	**E317**	**E317**	Navajo Nation
E318	4303716063	NW	SW	18	T40S	R24E	1980' FSL/660' FWL	SL-067807	Active	**E318**	**E318**	Navajo Nation
E319	4303716064	NW	SW	19	T40S	R24E	2040' FSL/680' FWL	I-149-IND-8836	P/A			Navajo Nation
E320	4303716065	NW	SW	20	T40S	R24E	2140' FSL/820' FWL	I-149-IND-8836	Active	**E320**	**E320**	Navajo Nation
E321	4303716066	NW	SW	21	T40S	R24E	2140' FSL/720' FWL	I-149-IND-8836	Active	**E321**	**E321**	Navajo Nation
E322	4303716067	NW	SW	22	T40S	R24E	1980' FSL/660' FWL	I-149-IND-8836	Active	**E322**	**E322**	Navajo Nation
E323	4303716068	NW	SW	23	T40S	R24E	1980' FSL/510' FWL	I-149-IND-8838	Active	**E323**	**E323**	Navajo Nation
E324	4303716069	NW	SW	24	T40S	R24E	1980' FSL/660'FWL	I-149-IND-8838	Active	**E324**	**E324**	Navajo Nation
E325	4303716070	NW	SW	25	T40S	R24E	1980' FSL/660' FWL	I-149-IND-8838	Active	**E325**	**E325**	Navajo Nation
E326	4303716071	NW	SW	26	T40S	R24E	1980' FSL/660' FWL	I-149-IND-8838	Active	**E326**	**E326**	Navajo Nation
F115	4303716074	NE	NW	15	T40S	R24E	690' FNL/2140' FWL	I-149-IND-8834	Active	**F115**	**F115**	Navajo Nation

F208	4303716076	SE	NW	8	T40S	R24E	2140' FNL/2050' FWL	I-149-IND-8833	Active	**F208**	**F208**	Navajo Nation
F219	4303716077	SE	NW	19	T40S	R24E	1820' FNL/2140' FWL	I-149-IND-8836	Active	**F219**	**F219**	Navajo Nation
F221	4303716078	SE	NW	21	T40S	R24E	1980' FNL/1980' FWL	I-149-IND-8836	Active	**F221**	**F221**	Navajo Nation
F223	4303716079	SE	NW	23	T40S	R24E	1980' FNL/1820' FWL	I-149-IND-8838	Active	**F223**	**F223**	Navajo Nation
F225	4303716080	SE	NW	25	T40S	R24E	2040' FNL/2080' FWL	I-149-IND-8838	Active	**F225**	**F225**	Navajo Nation
F409	4303716082	SE	SW	9	T40S	R24E	660' FSL/1980' FWL	I-149-IND-8834	Active	**F409**	**F409**	Navajo Nation
F421	4303716084	SE	SW	21	T40S	R24E	585' FSL/1990' FWL	I-149-IND-8836	Active	**F421**	**F421**	Navajo Nation
F422	4303716085	SE	SW	22	T40S	R24E	660' FSL/1980' FWL	I-149-IND-8836	Active	**F422**	**F422**	Navajo Nation
F423	4303716086	SE	SW	23	T40S	R24E	770' FSL/1955' FWL	I-149-IND-8838	Active	**F423**	**F423**	Navajo Nation
F424	4303716087	SE	SW	24	T40S	R24E	660' FSL/2100' FWL	I-149-IND-8838	Active	**F424**	**F424**	Navajo Nation
G117	4303716089	NW	NE	17	T40S	R24E	660' FNL/1980' FEL	I-149-IND-8835	Active	**G117**	**G117**	Navajo Nation
G118	4303716090	NW	NE	18	T40S	R24E	800' FNL/1910' FEL	I-149-IND-8835	Active	**G118**	**G118**	Navajo Nation
G119	4303716091	NW	NE	19	T40S	R24E	660' FNL/2140' FEL	I-149-IND-8836	Active	**G119**	**G119**	Navajo Nation
G120	4303716092	NW	NE	20	T40S	R24E	660' FNL/1980' FEL	I-149-IND-8833	Active	**G120**	**G120**	Navajo Nation
G125	4303716095	NW	NE	25	T40S	R24E	660' FNL/2140' FEL	I-149-IND-8838	Active	**G125**	**G125**	Navajo Nation
G129	4303716097	NW	NE	29	T40S	R24E	580' FNL/1905' FEL	14-20-603-4030	Active	**G129**	**G129**	Navajo Nation
G307	4303716100	NW	SE	7	T40S	R24E	1900' FSL/1995' FEL	SL-067807	Active	**G307**	**G307**	Navajo Nation
G308	4303716101	NW	SE	8	T40S	R24E	1975' FSL/1830' FEL	I-149-IND-8834	Active	**G308**	**G308**	Navajo Nation
G317	4303716103	NW	SE	17	T40S	R24E	1778' FSL/1900' FEL	I-149-IND-8835	Active	**G317**	**G317**	Navajo Nation
G318	4303716104	NW	SE	18	T40S	R24E	2125' FSL/1980' FEL	I-149-IND-8835	Active	**G318**	**G318**	Navajo Nation
G320	4303716105	NW	SE	20	T40S	R24E	1980' FSL/1980' FEL	I-149-IND-8836	Active	**G320**	**G320**	Navajo Nation
G324	4303716111	NW	SE	24	T40S	R24E	1980' FSL/1980' FEL	I-149-IND-8838	Active	**G324**	**G324**	Navajo Nation
G326	4303716113	NW	SE	26	T40S	R24E	1980' FSL/1980' FEL	I-149-IND-8838	Active	**G326**	**G326**	Navajo Nation
G415	4303716116	SW	SE	15	T40S	R24E	820' FSL/2400' FEL	I-149-IND-8834	Active	**G415**	**G415**	Navajo Nation
H122	4303716117	NE	NE	22	T40S	R24E	660' FNL/660' FEL	I-149-IND-8836	Active	**H122**	**H122**	Navajo Nation
H207	4303716118	SE	NE	7	T40S	R24E	1820' FNL/820' FEL	SL-067807	T/A			State of Utah
H208	4303716119	SE	NE	8	T40S	R24E	2140' FNL/660' FEL	I-149-IND-8833	Active	**H208**	**H208**	Navajo Nation
H218	4303716120	SE	NE	18	T40S	R24E	1980' FNL/660' FEL	I-149-IND-8835	Active	**H218**	**H218**	Navajo Nation
H219	4303716121	SE	NE	19	T40S	R24E	1945' FNL/607' FEL	I-149-IND-8836	Active	**H219**	**H219**	Navajo Nation
H221	4303716122	SE	NE	21	T40S	R24E	1980' FNL/660' FEL	I-149-IND-8836	Active	**H221**	**H221**	Navajo Nation
H223	4303716123	SE	NE	23	T40S	R24E	1820' FNL/730' FEL	I-149-IND-8838	Active	**H223**	**H223**	Navajo Nation
H225	4303716124	SE	NE	25	T40S	R24E	1980' FNL/660' FEL	I-149-IND-8838	Active	**H225**	**H225**	Navajo Nation
H410	4303716125	SE	SE	10	T40S	R24E	625' FSL/545' FEL	I-149-IND-8834	P/A			Navajo Nation
H422	4303716127	SE	SE	22	T40S	R24E	^660' FSL/660' FEL	I-149-IND-8836	P/A			Navajo Nation
H423	4303716128	SE	SE	23	T40S	R24E	820' FSL/450' FEL	I-149-IND-8838	Active	**H423**	**H423**	Navajo Nation
H425	4303716129	SE	SE	25	T40S	R24E	660' FSL/660' FEL	I-149-IND-8838	Active	**H425**	**H425**	Navajo Nation
J129	4303716131	NW	NW	29	T40S	R25E	620' FNL/615' FWL	I-149-IND-8839	P/A			Navajo Nation
J130	4303716132	NW	NW	30	T40S	R25E	720' FNL/590' FEL	I-149-IND-8839	Shut-In	**J130**	**J130**	Navajo Nation
J330	4303716134	NW	SW	30	T40S	R25E	2060' FSL/800' FWL	I-149-IND-8839	Active	**J330**	**J330**	Navajo Nation
K230	4303716135	SE	NW	30	T40S	R25E	2075' FSL/2140' FWL	I-149-IND-8839	Shut-In	**K230**	**K230**	Navajo Nation
K430	4303716137	SE	SW	30	T40S	R25E	660' FSL/1980' FWL	I-149-IND-8839	Active	**K430**	**K430**	Navajo Nation
L330	4303716139	NW	SE	30	T40S	R25E	2120' FSL/1960' FEL	I-149-IND-8839	Active	**L330**	**L330**	Navajo Nation
L419	4303716140	SW	SE	19	T40S	R25E	660' FSL/1980' FEL	I-149-IND-8839	Active	**L419**	**L419**	Navajo Nation
M230	4303716141	SE	NE	30	T40S	R25E	1930' FNL/660' FEL	I-149-IND-8839	Active	**M230**	**M230**	Navajo Nation
E128	4303716222	NW	NW	28	T40S	R24E	660' FNL/660' FWL	14-20-603-2056	Active	**E128**	**E128**	Navajo Nation
F227	4303716223	SE	NW	27	T40S	R24E	1980' FNL/1980' FWL	14-20-603-2056	T/A			Navajo Nation
G128	4303716224	NW	NE	28	T40S	R24E	660' FNL/1980' FEL	14-20-603-2056	Shut-In	**G128**	**G128**	Navajo Nation

H228	4303716228	SE	NE	28	T40S	R24E	2080' FNL/560' FEL	14-20-603-2056	T/A			Navajo Nation
A124	4303716270	NW	NW	24	T40S	R23E	500' FNL/500'FWL	SL-0701010-C	Active			State of Utah
B123	4303716271	NE	NW	23	T40S	R23E	500' FNL/2140' FWL	SL-0701010	Active			State of Utah
B312	4303716272	NE	SW	12	T40S	R23E	3295' FNL/3348' FEL	SL-070968-A	Active	**B312**	**B312**	Navajo Nation
B314	4303716273	NE	SW	14	T40S	R23E	2030' FSL/2030' FWL	SL-070968	Active			State of Utah
C112	4303716274	NW	NE	12	T40S	R23E	658' FNL/1974' FEL	SL-070968-A	P/A			State of Utah
C124	4303716275	NW	NE	24	T40S	R23E	660' FNL/1980' FEL	SL-0701010-C	P/A			State of Utah
C223	4303716276	SW	NE	23	T40S	R23E	1820' FNL/1980' FEL	SL-0701010	P/A			State of Utah
D114	4303716277	NE	NE	14	T40S	R23E	660' FNL/760' FEL	SL-070968	Active			State of Utah
D212	4303716278	SE	NE	12	T40S	R23E	1860' FNL/656' FEL	SL-070968-A	Shut-In	**D212**	**D212**	Navajo Nation
D413	4303716279	SE	SE	13	T40S	R23E	660' FSL/661' FEL	SL-070968-A	Active			State of Utah
E119	4303716280	NW	NW	19	T40S	R24E	500' FNL/820' FWL	I-149-IND-8836	Active	**E119**	**E119**	Navajo Nation
E207	4303716283	SW	NW	7	T40S	R24E	2030' FNL 750 FWL		T/A	E207	E207	
E208	4303716284	SW	NW	8	T40S	R24E	1930' FNL/500' FWL	I-149-IND-8833	T/A			Navajo Nation
F116	4303716285	NE	NW	16	T40S	R24E	660' FNL/1980' FWL	ML-3156	Active	**F116**	**F116**	Navajo Nation
F217	4303716286	SE	NW	17	T40S	R24E	1890' FNL/1930' FWL	I-149-IND-8835	Active	**F217**	**F217**	Navajo Nation
F218	4303716287	SE	NW	18	T40S	R24E	1970' FNL/2060' FWL	I-149-IND-8835	Active	**F218**	**F218**	Navajo Nation
F220	4303716288	SE	NW	20	T40S	R24E	1980' FNL/1980' FWL	I-149-IND-8836	Active	**F220**	**F220**	Navajo Nation
F224	4303716289	SE	NW	24	T40S	R24E	1980' FNL/1980' FWL	I-149-IND-8838	Active	**F224**	**F224**	Navajo Nation
F226	4303716290	SE	NW	26	T40S	R24E	1950' FNL/1900' FWL	I-149-IND-8838	Active	**F226**	**F226**	Navajo Nation
F229	4303716292	SE	NW	29	T40S	R24E	2015' FNL/1930' FWL	14-20-603-4030	P/A	**F229**	**F229**	Navajo Nation
F235	4303716293	SE	NW	35	T40S	R24E	1825' FNL/2010' FWL	14-20-603-2059	Active	**F235**	**F235**	Navajo Nation
F236	4303716294	SE	NW	36	T40S	R24E	1980' FNL/1980' FWL	14-20-603-5444	Active	**F236**	**F236**	Navajo Nation
F311	4303716295	NE	SW	11	T40S	R24E	1820' FSL/1980'FWL	I-149-IND-8837	P/A			Navajo Nation
F315	4303716296	NE	SW	15	T40S	R24E	1980' FSL/2010' FWL	I-149-IND-8834	Active	**F315**	**F315**	Navajo Nation
F316	4303716297	NE	SW	16	T40S	R24E	2260' FSL/2140' FWL	ML-3156	Active	**F316**	**F316**	Navajo Nation
F408	4303716298	SE	SW	8	T40S	R24E	660' FSL/1980' FWL	I-149-IND-8833	Active	**F408**	**F408**	Navajo Nation
F417	4303716299	SE	SW	17	T40S	R24E	500' FSL/2140' FWL	I-149-IND-8835	Active	**F417**	**F417**	Navajo Nation
F420	4303716300	SE	SW	20	T40S	R24E	660' FSL/1980' FWL	I-149-IND-8836	Active	**F420**	**F420**	Navajo Nation
F425	4303716301	SE	SW	25	T40S	R24E	795' FSL/1960' FWL	I-149-IND-8838	Active	**F425**	**F425**	Navajo Nation
F426	4303716302	SE	SW	26	T40S	R24E	632' FSL/1867' FWL	I-149-IND-8838	P/A			Navajo Nation
F434	4303716303	SE	SW	34	T40S	R24E	815' FSL/1860' FWL	14-20-603-2056	P/A			Navajo Nation
F435	4303716304	SE	SW	35	T40S	R24E	820' FSL/1930' FWL	14-20-603-2059	T/A			Navajo Nation
G123	4303716306	NW	NE	23	T40S	R24E	660' FNL/1530' FEL	I-149-IND-8838	Active	**G123**	**G123**	Navajo Nation
G127	4303716307	NW	NE	27	T40S	R24E	660' FNL/1980' FEL	14-20-603-2056	Active	**G127**	**G127**	Navajo Nation
G319	4303716309	NW	SE	19	T40S	R24E	1920' FSL/2060' FEL	I-149-IND-8836	Active	**G319**	**G319**	Navajo Nation
H216	4303716312	SE	NE	16	T40S	R24E	3331' FSL/703' FEL	ML-3156	Active	**H216**	**H216**	Navajo Nation
H217	4303716313	SE	NE	17	T40S	R24E	2070' FNL/820' FEL	I-149-IND-8833	Active	**H217**	**H217**	Navajo Nation
H220	4303716314	SE	NE	20	T40S	R24E	2025' FNL/560' FEL	I-149-IND-8833	Active	**H220**	**H220**	Navajo Nation
H226	4303716316	SE	NE	26	T40S	R24E	1980' FNL/780' FEL	I-149-IND-8838	Active	**H226**	**H226**	Navajo Nation
H227	4303716317	SE	NE	27	T40S	R24E	1980' FNL/630' FEL	14-20-603-2056	Active	**H227**	**H227**	Navajo Nation
H229	4303716318	SE	NE	29	T40S	R24E	1820' FNL/660' FEL	14-20-603-4030	Shut-In	**H229**	**H229**	Navajo Nation
H234	4303716319	SE	NE	34	T40S	R24E	1980' FNL/660' FEL	14-20-603-2056	Active	**H234**	**H234**	Navajo Nation
H235	4303716320	SE	NE	35	T40S	R24E	2000' FNL/770' FEL	14-20-603-2059	Active	**H235**	**H235**	Navajo Nation
H407	4303716322	SE	SE	7	T40S	R24E	645' FSL/500' FEL	I-149-IND-8835	Active	**H407**	**H407**	Navajo Nation
H408	4303716323	SE	SE	8	T40S	R24E	500' FSL/530' FEL	I-149-IND-8834	Active	**H408**	**H408**	Navajo Nation
H417	4303716326	SE	SE	17	T40S	R24E	500' FSL/690' FEL	I-149-IND-8833	Active	**H417**	**H417**	Navajo Nation

H418	4303716327	SE	SE	18	T40S	R24E	660' FSL/660' FEL	I-149-IND-8835	Active	**H418**	**H418**	Navajo Nation
H419	4303716328	SE	SE	19	T40S	R24E	570' FSL/450' FEL	I-149-IND-8836	P/A			Navajo Nation
H420	4303716329	SE	SE	20	T40S	R24E	660' FSL/660' FEL	I-149-IND-8836	Active	**H420**	**H420**	Navajo Nation
H421	4303716330	SE	SE	21	T40S	R24E	500' FSL/750' FEL	I-149-IND-8836	Active	**H421**	**H421**	Navajo Nation
H424	4303716331	SE	SE	24	T40S	R24E	820' FSL/610' FEL	I-149-IND-8838	Active	**H424**	**H424**	Navajo Nation
H426	4303716332	SE	SE	26	T40S	R24E	710' FSL/510' FEL	I-149-IND-8838	Active	**H426**	**H426**	Navajo Nation
H427	4303716333	SE	SE	27	T40S	R24E	660' FSL/660' FEL	14-20-603-2056	Active	**H427**	**H427**	Navajo Nation
K231	4303716335	SE	NW	31	T40S	R25E	2014' FNL/2054' FWL	14-20-603-372A	Active	**K231**	**K231**	Navajo Nation
M430	4303716337	SE	SE	30	T40S	R25E	670' FSL/790' FEL	I-149-IND-8839	Active	**M430**	**M430**	Navajo Nation
E414	4303716421	SW	SW	14	T40S	R24E	750' FSL/620' FWL	I-149-IND-8837	Active	**E414**	**E414**	Navajo Nation
F114	4303716422	NE	NW	14	40S	24E	720' FNL/1870' FWL	I-149-IND-8839	Active	**F114**	**F114**	Navajo Nation
E127	4303716782	NW	NW	27	T40S	R24E	660' FNL/660' FWL	14-20-603-2056	P/A			Navajo Nation
H416	4303720230	SE	SE	16	T40S	R24E	150' FSL/660' FEL	ML-3156	Active	**H416**	**H416**	Navajo Nation
G322X	4303720231	NW	SE	22	T40S	R24E	1550' FSL/1720' FEL	I-149-IND-8836	Active	**G322X**	**G322X**	Navajo Nation
D412	4303730049	SE	SE	12	T40S	R23E	500' FSL/150' FEL	SL-070968-A	Active	**D412**	**D412**	Navajo Nation
E316	4303730094	NW	SW	16	T40S	R24E	2190' FSL/128' FWL	ML-3156	Active	**E316**	**E316**	Navajo Nation
G321X	4303730095	NW	SE	21	T40S	R24E	1900' FSL/1755' FEL	I-149-IND-8836	Shut-In	**G321X**	**G321X**	Navajo Nation
G316	4303730107	NW	SE	16	T40S	R24E	2320' FSL/1745' FEL	ML-3156	Active	**G316**	**G316**	Navajo Nation
C312	4303730112	NW	SE	12	T40S	R23E	1610' FSL/1800' FEL	SL-070968-A	Active	**C312**	**C312**	Navajo Nation
A113	4303730119	NW	NW	13	T40S	R23E	700' FNL/650' FWL	SL-070968-A	Active			State of Utah
E218	4303730137	SW	NW	18	T40S	R24E	1860' FNL/660' FWL	SL-067807	Active	**E218**	**E218**	Navajo Nation
F118	4303730155	NE	NW	18	T40S	R24E	619' FNL/2184' FWL	SL-067807	Active	**F118**	**F118**	Navajo Nation
D113	4303730174	NE	NE	13	T40S	R23E	578' FNL/619' FEL	SL-070968-A	Active			State of Utah
E407	4303730175	SW	SW	7	T40S	R24E	618' FSL/577' FWL	SL-067807	Active	**E407**	**E407**	Navajo Nation
E315	4303730213	NW	SW	15	T40S	R24E	2212' FSL/591' FWL	I-149-IND-8834	Active	**E315**	**E315**	Navajo Nation
E122	4303730215	NW	NW	22	T40S	R24E	528' FNL/660' FWL	I-149-IND-8836	Active	**E122**	**E122**	Navajo Nation
F123	4303730235	NE	NW	23	T40S	R24E	660' FNL/2046' FWL	I-149-IND-8838	Shut-In	**F123**	**F123**	Navajo Nation
B413	4303730297	SE	SW	13	T40S	R23E	660' FSL/1980' FWL	SL-070968-A	Active			State of Utah
A313	4303730299	NW	SW	13	T40S	R23E	1840' FSL/470' FWL	SL-070968-A	Active			State of Utah
H315	4303730312	NE	SE	15	T40S	R24E	1980' FSL/660' FEL	I-149-IND-8834	Active	**H315**	**H315**	Navajo Nation
F416	4303730333	SE	SW	16	T40S	R24E	1000' FSL/1980' FWL	ML-3156	Active	**F416**	**F416**	Navajo Nation
G121X	4303730335	NW	NE	21	T40S	R24E	790' FNL/1780' FEL	I-149-IND-8836	Active	**G121X**	**G121X**	Navajo Nation
G116	4303730344	NW	NE	16	T40S	R24E	660' FNL/1980' FEL	ML-3156	Active	**G116**	**G116**	Navajo Nation
G126X	4303730372	NW	NE	26	T40S	R24E	860' FNL/1780' FEL	I-149-IND-8838	Active	**G126X**	**G126X**	Navajo Nation
F222	4303730373	SE	NW	22	T40S	R24E	1920' FNL/1980' FWL	I-149-IND-8836	Active	**F222**	**F222**	Navajo Nation
G122	4303730425	NW	NE	22	T40S	R24E	570' FNL/1960' FEL	I-149-IND-8836	Active	**G122**	**G122**	Navajo Nation
H314X	4303731381	NE	SE	14	T40S	R24E	1950' FSL/570' FEL	I-149-IND-8837	Active	**H314X**	**H314X**	Navajo Nation