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	1-5-58	Location Inspected	
OW ✓ WW	TA	Bond released State of Fee Land	
GW OS	PA		

LOGS FILED

Driller's Log 1-20-58

Electric Logs (No.) 4

E | I | E-I ✓ | GR | GR-N | Micro ✓

Lat ✓ | Mi-L | Sonic | Others Radiation Log

3-29-62 This well is classified as a water injection well & is not shut in within one mile of the injection line.

Started injecting last of April, 1962

Scout Report sent out	☑
Noted in the NID File	☑
Location map pinned	☑
Approval or Disapproval Letter	☑
Date Completed, P. & A. or operations suspended	1-4-58
Pin changed on location map	☐
Affidavit and Record of A & P	☐
Water Shut-Off Test	☐
Gas-Oil Ratio Test	☐
Well Log Filed	☑

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 [redacted]

[redacted]

Allottee [redacted]

Lease No.

1-27-58

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 [redacted] 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)

[redacted], 19 57

Well No. [redacted] is located [redacted] ft. from [N] line and [redacted] ft. from [E] line of sec. [redacted]

[redacted] (¼ Sec. and Sec. No.) [redacted] (Twp.) [redacted] (Range) [redacted] (Meridian)

[redacted] (Field) [redacted] (County or Subdivision) [redacted] (State or Territory)

The elevation of the derrick floor above sea level is [redacted] 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)

[redacted]

PBTD 5767'

[redacted]

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

Company [redacted]

Address [redacted]

[redacted]

By [redacted]

Title [redacted]

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

[illegible]TH NO. 27D2 - COMPLETION DATA[illegible]

PERFORATED 5-1/2" OD CASING 5816' TO 5824' WITH TWO JET SHOTS PER FOOT. SWABBED TUBING DOWN. ATTEMPTED TO ACIDIZE TWICE THROUGH PERFORATIONS 5816' TO 5824', UNABLE TO PUT ACID AWAY. REPERFORATED 5-1/2" OD CASING WITH 4 DYNA-JETS PER FOOT FROM 5816' TO 5824'. UNABLE TO PUMP INTO FORMATION. REPERFORATED WITH ONE SHOT AT 5816', 5818', 5820' AND 5822'. ACIDIZED THROUGH PERFORATIONS WITH 500 GALLONS ACID. SWABBED DISPLACEMENT OIL THEN STARTED SWABBING SALT WATER. SQUEEZED 100 SX. CEMENT THROUGH PERFORATIONS. PERFORATED 5-1/2" OD CASING 5784' TO 5796' WITH 3 SUPER FORMATION JET SHOTS PER FOOT. ACIDIZED THROUGH PERFORATIONS 5784' TO 5796' WITH 500 GALLONS ACID. SWABBED TOTAL FLUID OF 54 BARRELS, OF WHICH 20 BARRELS WAS FORMATION OIL. ACIDIZED THROUGH PERFORATIONS 5784' TO 5796' WITH 500 GALLONS ACID. SWABBED LOAD OIL BACK THEN SWABBED 28 BARRELS OIL AND 72 BARRELS WATER IN 6-1/2 HOURS. SQUEEZED 100 SX. CEMENT THROUGH PERFORATIONS 5784' TO 5796'. PERFORATED 5-1/2" OD CASING 5748' TO 5696' WITH FOUR 1/2" SUPER CASING JET SHOTS PER FOOT. RAN 2-7/8" OD TUBING AND SET IN PACKER AT 5678'. ACIDIZED THROUGH PERFORATIONS WITH 1000 GALLONS ACID. FLOWED BACK 8 BARRELS IN TWO RUNS WITH SWAB FROM 3000', WELL FLOWED LOAD OIL BACK IN ONE HOUR. FLOWED 112 BARRELS OIL FROM 7:00 P.M. TO 12:00 MIDNIGHT 12-8-57. WELL FLOWED UNTIL 3:00 P.M. 12-9-57, PRODUCED 2-1/2 BARRELS OIL. SHUT IN AT 4:00 P.M. 12-9-57 THROUGH 12-26-57. OPENED WELL AT 2:30 P.M. 12-27-57, PRODUCED 27 BARRELS OIL IN 21-1/2 HOURS. WELL DEAD 12:00 NOON 12-28-57. OPENED WELL 3:30 P.M. 12-30-57, FLOWED 157 BARRELS OIL, WELL DEAD 8:00 A.M. 12-31-57. WELL SHUT IN 1-1-58 AND 1-2-58. ACIDIZED THROUGH PERFORATIONS 5696' TO 5748' WITH 7000 GALLONS ACID. FLOWED BACK LOAD OIL IN 30 MINUTES. FLOWED TO BURN PIT 2-1/2 HOURS, TURNED TO TANK AND FLOWED 16 BARRELS OIL ON 32/64" CHOKE IN ONE HOUR AND 15 MINUTES, AT WHICK TIME CHOKE WAS CHANGED TO 48/64".. FROM 2:00 P.M. 1-3-58 TO 2:00 P.M. 1-4-58 WELL FLOWED 508 BARRELS OIL, TUBING PRESSURE 150 POUNDS. FROM 2:00 P.M. 1-4-58 TO 2:00 A.M. 1-5-58 WELL FLOWED 160 BARRELS OIL IN 12 HOURS. NOW SHUT IN FOR STORAGE WAITING PIPE LINE CONNECTION.

FINAL REPORT.

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION
1700 BROADWAY
DENVER 2, COLORADO

October 24, 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 Notice of Intention to Drill Aneth No. 27-D-2, located SE$\frac{1}{4}$ NE$\frac{1}{4}$ Sec. 27, T-40-S, R-24-E, San Juan County, Utah. Also enclosed are two copies of location plat.

If you require any additional information, please call the writer collect.

Yours very truly,

T. L. Warburton
Division Chief Production Clerk

TLW/dek

Encl.
Air Mail

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.

Form OGCC-1

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

OIL AND GAS CONSERVATION COMMISSION

October 24, 19 57

In compliance with Rule C-4, notice is hereby given that it is our intention to commence the work of drilling Well No. Aneth 27D2, which is located 1980 ft from (N) (XX) line and 630 ft. from (E) (XX) line of Sec. 27, Twp. 40-S, R. 24-E, Salt Lake (Meridian), Aneth (Field or Unit)

San Juan (County), on or about First day of November, 19 57.

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.) The Ohio Oil Co.) (Jointly)

Address The Pure Oil Co. (Operator)
1700 Broadway
Denver, Colorado

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 4840 ungraded ft. All depth measurements taken from top of Kelly Bushing (Derrick Floor, Rotary Table or Kelley Bushing) which is 11 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 1700 Broadway
Denver 2, Colorado

INSTRUCTIONS:

1. Complete this form in duplicate and mail both copies to the Oil and Gas Conservation Commission, Room 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.

Form 21 P100—Poco—15M—[illegible]43

THE PURE OIL COMPANY

LOCATION REPORT

Date October 24, 1957 A.F.E. No. 208

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

Acres 2,560.00 Lease No. 7064 Elevation 4840 ungraded Well No. Aneth 27D2 (Serial No.)

Quadrangle SE NE Sec. 27 Twp. 40-S Rge. 24-E Blk. Dist. Twp.

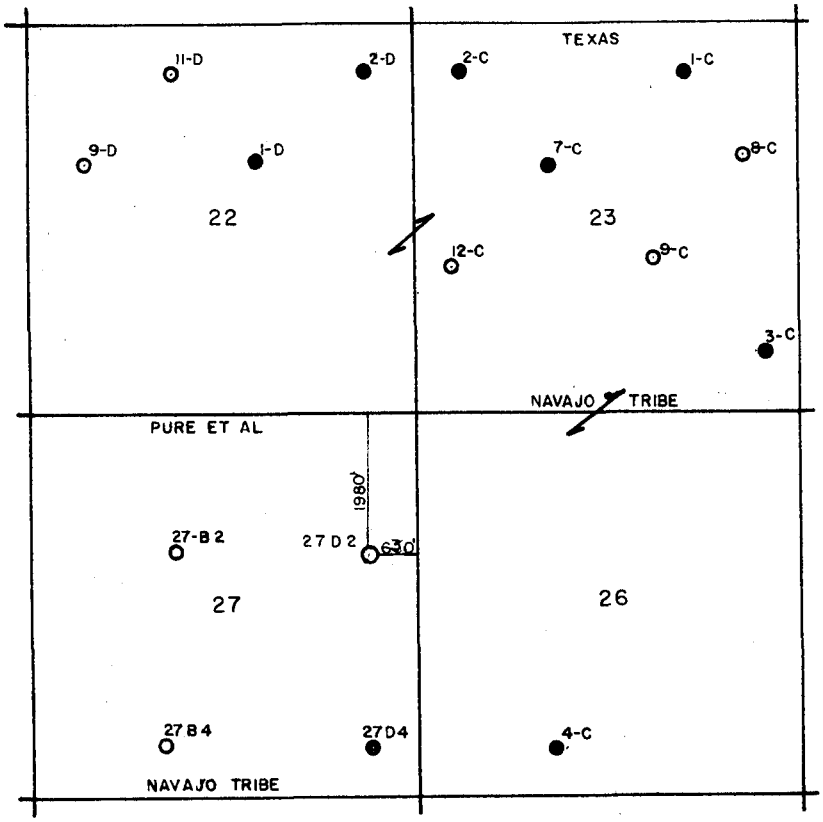
Survey Salt Lake Meridian County San Juan State Utah

Operator The Pure Oil Company Map

Feet from North Line of Lease
" " East " " "
" " South " " "
" " West " " "
1,980 Feet from North Line of Section
630 " " East " " "
" " South " " "
" " 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: The Pure Oil Company (Operator) - 33 1/3%
The Ohio Oil Company - 33 1/3%
Sun Oil Company - 33 1/3%

Submitted by _____ Civil Engineer

Approved by _____ Division Manager

Approved by _____ Vice-President - General Manager

October 25, 1957

The Pure Oil Company
1700 Broadway
Denver 2, Colorado

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

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Aneth 27-D-2, which is to be located 1980 feet from the north line and 630 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.

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

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
SECRETARY

CBF:cn

cc: Phil McGrath
USGS, Farmington,
New Mexico

DR-USGS

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 [redacted]

[redacted]

Allottee [redacted]

Lease No.

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)

[redacted], 19[redacted]

Well No. [redacted] is located [redacted] ft. from [N] line and [redacted] ft. from [E] line of sec. [redacted]

[redacted] (¼ Sec. and Sec. No.) [redacted] (Twp.) [redacted] (Range) [redacted] (Meridian)

[redacted] (Field) [redacted] (County or Subdivision) [redacted] (State or Territory)

The elevation of the [redacted] above sea level is [redacted] ft. (Corrected)
[redacted]

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)

[redacted]

[redacted]

[redacted]

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

Company [redacted]

Address [redacted]

[redacted]

By [redacted]

Title [redacted]

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

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 [redacted]

[redacted]

Allottee [redacted]

Lease No.

Noted 1-7-58 K

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	[redacted]
NOTICE OF INTENTION TO ABANDON WELL			

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

[redacted], 19 57

Well No. [redacted] is located [redacted] ft. from [N] [redacted] line and [redacted] ft. from [E] [redacted] line of sec. [redacted]

[redacted] (¼ Sec. and Sec. No.) [redacted] (Twp.) [redacted] (Range) [redacted] (Meridian)

[redacted] (Field) [redacted] (County or Subdivision) [redacted] (State or Territory)

The elevation of the [redacted] above sea level is [redacted] ft.
[redacted]

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)

[redacted]

[redacted]

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

Company [redacted]

Address [redacted]

[redacted]

By [redacted]

Title [redacted]

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

W

ANETH NO. 27-D2

T.D. 5900'

November 20, 1957

Ran Drill Stem Test No. 1, packer failed at 5596'. Attempted to set two packers, set at 5584' and 5588', both packers failed.

November 22, 1957

Johnston DST No. 2, 5698' to 5748'. Tool open one hour, shut in 3/4 hour. Gas to surface in 25 minutes. Recovered 464' fluid, 200' mud cut oil, and 264' of free oil. Pressures: IH 2970, IF 55, FF 125, FH 2960, Shut In 1995.

November 24, 1957

Johnston DST No. 3, 5750' to 5806'. Tool open one hour, shut in 3/4 hour. Gas to surface in 40 minutes. Recovered 390' of fluid. 300' oil and gas cut mud, 90' heavily oil and gas cut mud, no show of water. Pressures: IH 3040, IF 50, FF 135, FH 3040, Shut In 1920.

November 26, 1957

Johnston DST No. 4, 5803' to 5849'. Tool open one hour, shut in 3/4 hour. Good blow throughout test, no gas to surface, recovered 3400' of salt water, slightly oil and gas cut. Pressures: IH 3235, IF 215, FF 1690, FH 3235, Shut In 2080.

November 27, 1957

Set 5-1/2" OD 15.5# 8-R J-55 R-2 and R-3 casing at 5881', cemented with 500 sx. Regular Cement with 1/4# Flocsal per sack.

W/

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO,

ROCKY MOUNTAIN PRODUCING DIVISION
1700 BROADWAY
DENVER 2, COLORADO

January 16, 1958

1-27-58

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

Dear Mr. Feight:

Enclosed are the following records pertaining to Aneth No. 27-D2, located Section 27, 40-S, 24-E, San Juan County, Utah:

1. 1 copy Form No. 9-330, Log of Oil or Gas Well
2. 1 copy Schlumberger Micro Log.
3. 1 copy Schlumberger Laterolog.
4. 1 copy Schlumberger Electric Log.
5. 1 copy McCullough Radiation Log.
6. 1 copy Geological Sample Log.

If you require any additional information on this well please advise.

Yours very truly,

T. L. Warburton
Division Chief Production Clerk

TLW: dek

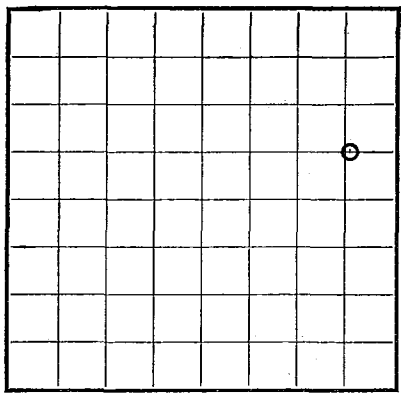
Enclosure

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.

Form 9-330

B[illegible] [illegible]u No. 42-R355.4.
A[illegible] [illegible]pires 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 1700 Broadway - Denver 2, Colorado

Lessor or Tract Tract 164 Field Aneth District State Utah

Well No. Aneth 27-D2 Sec. 27 T. 40S R. 24E Meridian Salt Lake County San Juan

Location 1980 ft. {N./S.} of N Line and 630 ft. {E./W.} of E Line of SE¼ NE¼ Elevation 4851.5' KB 4840' 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 [signature]

Date January 16, 1958 Title Division Chief Production Clerk

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

Commenced drilling October 26, 1957 Finished drilling November 26, 1957

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 5532' to 5900' No. 4, from to

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

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

IMPORTANT WATER SANDS

No. 1, from None to No. 3, from to

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

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
13-3/8"	48#	8-R	SS	49'	Coupling				Cemented to surface.
9-5/8"	36#	8-R	SS	1250'	Float				Cemented to surface.
5-1/2"	15.5#	8-R	SS	5881'	Float		5696'	5748'	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	49'	50 sacks	Halliburton		
9-5/8"	1250'	700 sacks	Halliburton		
5-1/2"	5881'	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

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	49'	50 sacks	Halliburton		
9-5/8"	1250'	700 sacks	Halliburton		
5-1/2"	5881'	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 5900 feet, and from ..... feet to ..... feet

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

DATES

....., 19..... Put to producing January 4, 1958

The production for the first 24 hours was 508 barrels of fluid of which 100 % was oil; - % emulsion; - % water; and - % sediment. Gravity, °Bé. 35.0

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-	77'	77'	Surface.
77'	1253'	1176'	Sandy shale.
1253'	3336'	2083'	Sand and shale.
3336'	4668'	1332'	Sandy shale.
4668'	5602'	934'	Lime.
5602'	5639'	37'	Core No. 1 - See reverse side.
5639'	5686'	47'	Core No. 2 - See reverse side.
5686'	5716'	30'	Core No. 3 - See reverse side.
5716'	5748'	32'	Core No. 4 - See reverse side.
5748'	5806'	58'	Core No. 5 - See reverse side.
5806'	5849'	43'	Core No. 6 - See reverse side.
5849'	5900'	51'	Limestone.
		5900'	TOTAL DEPTH

JAN 20 1958

[OVER]

16—43094-4

13' - Limestone, fossiliferous, good vuggy porosity, good odor, bleeds little oil and salt water.

Core No. 6 5806' to 5849' Cut 43' Rec. 39'

16.5' - Limestone, gray fine slyn, fair to good vuggy porosity, vugs up to 1/4" in size. Slight bleeding oil and salt water.

6.5' - Limestone, gray xlyn, poor to fair vuggy porosity, very anhydritic, very little bleeding.

16' - Limestone, gray, medium to coarse xlyn, very fossiliferous anhydritic, good odor. Slight bleeding oil and salt water.

Drill Stem Test No. 1 failed at 5596'. Run No. 2 failed with two Packers at 5584' and 5588'

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.

Johnston DST No. 2, 5698' to 5748'. Tool open one hour, shut in 3/4 hour. Gas to surface in 25 minutes. Recovered 464' fluid, 200' mud cut oil, 75% oil, and 264' of free oil. Pressures: IH 2970, IF 55, FF 125, FH 2960, Shut In 1995.

Johnston DST No. 3, 5750' to 5806'. Tool open one hour, shut in 3/4 hour. Gas to surface in 40 minutes. Recovered 390' of fluid. 300' oil and gas cut mud, 90' heavily oil and gas cut mud, no show of water. Pressures: IH 2040, IF 50, FF 135, FH 3040, Shut In 1920.

Johnston DST No. 4, 5803' to 5849'. Tool open one hour, shut in 3/4 hour. Good blow throughout test, no gas to surface, recovered 3400' of salt water, slightly oil and gas cut. Pressures: IH 3235, IF 215, FF 1690, FH 3235, Shut In 2080.

IMPORTANT MARKERS

Entrada	390'	(+4119')
Navajo	878'	(+3973')
Kayenta	1227'	(+3624')
Wingate	1306'	(+3545')
Chinle	1650'	(+3201')
Shinarump	2750'	(+2101')
Hermosa	4708'	(+ 143')
Paradox	5530'	(- 679')

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
Core No. 1	5602' to 5639'	Cut 37'	Rec. 35.5'
5.0'			Limestone, gray, xlyn, fair vugular porosity, bleeding oil and gas.
30.5'			Limestone, dark gray, finely xlyn, argillaceous, tight, no show.
Core No. 2	5639' to 5686'	Cut 47'	Rec. 43'
16'			Limestone, medium to dark gray, fine, xlyn, dense, with shale partings.
3.5'			Limestone, gray dolomitic, with scattered vugular porosity, no bleeding, faint odor.
2'			Limestone, medium gray, slyn, dense.
.5'			Limestone, gray, slyn, slightly scattered vugular porosity, no bleeding, slight odor.
1'			Limestone, gray, slyn, dense.
14.5'			Dolomite, good odor, no visible porosity, many large anhydrite inclusions.
4'			Limestone, gray, medium xlyn, very fossiliferous, dense, argillaceous.
1.5'			Black shale.
Core No. 3	5686' to 5716'	Cut 30'	Rec. 28'
9'			Black shale.
4'			Limestone, dark gray.
9'			Coarse xlyn brown, oolicastic, bleeding oil and gas.
2.5'			Medium gray lime, xlyn, dense.
3.5'			Medium gray lime, xlyn, dense with fair pinpoint to small vugular porosity, some bleeding.
Core No. 4	5716' to 5748'	Cut 32'	Rec. 32'
2.5'			Limestone, fair vuggy porosity, bleeding oil and gas.
5'			Limestone, dense.
1.5'			Limestone, scattered vuggy porosity, heavy bleeding oil and gas.
3'			Limestone, fossiliferous, fair to good pinpoint and vuggy porosity, bleeds oil and gas, tastes salty.
3.5'			Limestone, dense.
1.5'			Limestone with interxlyn porosity, bleeds oil and gas.
3.5'			Limestone, dense.
3'			Dolomite, fossiliferous, scattered pinpoint porosity, good stain and odor, slight bleeding oil, gas and salt water.
4.5'			Dolomite with anhydrite inclusions, no visible porosity, slight oil stain and odor, no bleeding.
1.5'			Limestone, dense argillaceous.
Core No. 5	5748' to 5806'	Cut 58'	Rec. 54'
4'			Limestone, dense.
6'			Limestone, fair to good vuggy porosity, good odor, bleeds oil and gas.
3'			Limestone, dense.
2'			Limestone, fair vuggy porosity, bleeds little oil.
21'			Limestone, dense.
18'			Limestone, follisiferous, good vuggy porosity, good odor, bleeds little oil and salt water.
Core No. 6	5806' to 5849'	Cut 43'	Rec. 39'
16.5'			Limestone, gray fine slyn, fair to good vuggy porosity, vugs up to 1/4" in size. Slight bleeding oil and salt water.
6.5'			Limestone, gray xlyn, poor to fair vuggy porosity, very anhydritic, very little bleeding.
16'			Limestone, gray, medium to coarse xlyn, very fossiliferous anhydritic, good odor. Slight bleeding oil and salt water.

Drill Stem Test No. 1 failed at 5596'. Run No. 2 failed with two Packers at 5584' and 5588'

PEEK - RUN - OHIO

ANETH PROSPECT

ANETH 27-B2

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

1980' FNL & 660' FEL

SAN JUAN COUNTY, UTAH

SPUDDED OCTOBER 26, 1957

COMPLETED JANUARY 5, 1958

SAMPLE ANALYSIS BY H. C. HASSEBROEK

#
1-27-58

JAN 20 1958

FORMATION TOPS

Formation	Sample Top	Electric Log Top	Datum
Morrison	Spud	Spud	
Entrada	590	590	+4461
Carmel	720	752	+4119
Navajo	865	878	+3973
Kayenta	1223	1227	+3624
Wingate	1308	1306	+3545
Chinle	1650	1650	+3201
Shinarump	2740	2750	+2101
DeChelly	2800	2802	+2049
Organ Rock	2912	2910	+1941
Cedar Mesa	3585	3586	+1266
Hermosa	4710	4708	+ 143
Paradox "A"	5532	5530	- 679
Paradox "B"	5681	5682	- 831
Paradox "C"	5695	5694	- 843
Paradox "D"	5892	5892	-1041

Set 55' of 13 3/8" conductor at 45' from K.B .

<u>30' samples</u>

210 - 240 Sandstone, gray-green, medium to course grain, sub-rounded to rounded.

240 - 270 As above; with sandstone, light green, fine, hard.

270 - 300 Sandstone, buff, medium grain, sub-rounded to rounded, very friable.

300 - 330 Shale, brown, red and green, slightly silty; sandstone, as above.

330 - 350 As above.

350 - 360 Shale, brown, red and green, inbedded, slightly silty; sandstone, buff, medium to course grain, friable.

360 - 390 As above; sandstone, light red-brown, fine grain.

390 - 420 Sandstone, gray- buff to orange, medium to course grain; trace shale, as above.

420 - 450 Shale, chocolate brown, very fine texture; trace sandstone, as above.

450 - 480 Sandstone, light brown, fine grain, slightly calcareous; trace shale, as above.

480 - 510 As above; increase in shale, brown and green.

510 - 540 Sandstone, brown, fine grain, sub-rounded to rounded, calcareous, few course grains; shale, brown, calcareous, slightly silty.

540 - 570 As above; increase in brown shale (cavings?); few rounded, frosted, quartz grains.

570 - 600 As above.

600 - 630 Sandstone and shale, as above; sandstone, gray, fine to medium grain, very friable, calcareous.

630 - 650 As above.

650 - 690 Sandstone, orange-brown, medium grain, friable, calcareous, sub-rounded to rounded; trace shale, brown, silty, calcareous.

690 - 720 As above; few rounded, frosted, quartz grains.

720 - 750 As above.

750 - 780 Sandstone, gray-white, medium to course grain; much shale, brown and green, inbedded, silty, calcareous.

780 - 800 As above; sandstone increasing.

800 - 810 Sandstone, buff—gray, medium to course grain, sub-angular, calcareous, poorly sorted; shale, brown, silty, calcareous.

810 - 840 As above.

840 - 870 As above; sandstone, orange, medium to course grain, sub-rounded to rounded, friable.

870 - 900 Sandstone, light orange, sub-rounded to rounded, very friable, few rounded, frosted quartz grains, calcareous; trace shale, brown, silty.

<u>Navajo sandstone - 885'</u>

900 - 930 Sandstone, as above; slight decrease in grain size.

930 - 950 Sandstone, light orange, fine to medium grain, sub-rounded to rounded, very friable, slightly calcareous, few rounded, frosted quartz grains.

950 - 990 Sandstone, light orange, fine to medium grain, sub-rounded to rounded, very friable, calcareous, few rounded, frosted quartz grains.

990 - 1020 As above.

1020 - 1050 Sandstone, as above, increase to medium grain, sub-rounded to rounded, many rounded, frosted, quartz grains.

1050 - 1080 As above; shale, red-brown, silty, calcareous.

1080 - 1100 As above.

1100 - 1140 Sandstone, gray-buff, fine grain, calcareous, few rounded, frosted, quartz grains.

1140 - 1170 As above, slightly calcareous.

1170 - 1200 As above.

1200 - 1250 As above.

<u>Sample Tops:</u>		
	Entrada	390
	Carmel	720?
	N avajo	885
	Kayenta	1225

Set 9 5/8" surface casing at 1250' w/750 sacks.

1230 - 1240 Sandstone, buff-orange, fine grain, sub-rounded to rounded, slightly calcareous, friable.

1240 - 1250 Siltstone, brown-lavender and blue-green, calcareous, sandy.

50" circulating sample @ 1253'. As above; sandstone, orange-white, medium grain, friable.

1253 - 1280 Sandstone, orange-brown, fine to medium grain, sub-rounded to rounded; shale, grey, silty.

1280 - 1310 As above, many sub-angular frosted, quartz grains.

Sample Top: Wingate 1308 Datum /3343

1310 - 1340 Sandstone, orange-brown, medium to course grain, friable, slightly calcareous.

1340 - 1370 As above, some rounded, frosted, quartz grains.

1370 - 1400 As above.

1400 - 1430 Sandstone, light tan to orange-brown, medium grain, sub-rounded to rounded, very friable.

1430 - 1460 As above, some rounded, frosted, quartz grains.

1460 - 1490 As above; trace shale, red-brown, silty.

1490 - 1520 As above; increase in shale, red-brown, silty.

1520 - 1550 Sandstone, orange, fine to medium grain, sub-angular to sub-rounded, friable.

1550 - 1580 Sandstone, orange-brown, fine to medium grain, sub-rounded to rounded, friable, many rounded, frosted, quartz grains.

1580 - 1600 As above; sandstone, fine grain.

1600 - 1640 As above.

1640 - 1670 As above.

1670 - 1700 As above; shale, red-brown, silty.

Sample Top: Chinle 1650 Datum /3201

1700 - 1730 Sandstone, orange-brown, fine to medium grain, sub-rounded to rounded, friable; shale, red-brown, silty, many rounded, frosted, quartz grains.

1730 - 1760 As above.

1760 - 1790 Siltstone, orange-red, calcareous, slightly sandy.

1790 - 1820 As above; shale, light brown, silty.

1820 - 1850 As above.

1850 - 1880 Siltstone, orange-brown, calcareous, slightly sandy, inbedded with shale, green, silty.

1880 - 1910 As above (no green shale).

1910 - 1940 As above; sandstone, orange-brown, fine grain, friable.

1940 - 1970 Siltstone, orange-brown; inbedded with siltstone, red-brown, calcareous; some shale, light brown, silty.

1970 - 2000 As above.

2000 - 2030 Siltstone, red-brown to orange-brown, calcareous; trace shale, light brown, silty, calcareous.

2030 - 2060 As above, few rounded, frosted, quartz grains.

2060 - 2090 As above; trace sandstone, orange-white, medium grain, sub-rounded to rounded.

2090 - 2120 As above; much shale, gray-black, silty, calcareous; less sandstone.

2120 - 2150 As above; some fine to medium sandstone, grey.

2150 - 2180 Shale, dark gray to black, silty, calcareous; siltstone, orange-brown, calcareous.

2180 - 2210 Siltstone, red-brown and orange-red, inbedded, calcareous.

2210 - 2240 As above; some rounded, frosted, quartz grains.

2240 - 2270 As above; trace shale, green, silty, calcareous.

2270 - 2300 Siltstone, red-brown, some maroon, calcareous.

2300 - 2330 Siltstone, red-brown, calcareous; few stringers sandstone, orange, medium grain, sub-rounded to rounded.

2330 - 2360 As above; thin stringers shale, green, silty, calcareous.

2360 - 2390 As above.

2390 - 2420 As above; trace limestone, red-buff, sub-lithographic.

2420 - 2450 As above; much limestone, red-brown, sub-lithographic.

2450 - 2480 Siltstone, red-brown, calcareous; shale, dark gray, silty, calcareous.

2480 - 2510 As above; shale, brown, silty, calcareous; some limestone, buff, very fine crystalline.

2510 - 2540 As above; trace chert.

2540 - 2570 Siltstone, orange-red, calcareous; shale, maroon, silty; sandstone, gray, medium grain, sub-rounded to rounded, friable, arkosic.

2570 - 2600 As above; increase in sandstone.

2600 - 2650 Siltstone, red-brown, calcareous; shale, maroon, silty, calcareous; sandstone, gray, medium grain, subrounded to rounded.

2650 - 2660 As above; trace limestone, light gray, sub-lithographic; less sandstone.

2660 - 2690 As above; shale, gray, silty and shale, light brown, silty.

<u>10' samples</u>.

2690 - 2700 Shale, dark gray-brown to black, silty, calcareous; shale, brown, calcareous, silty.

2700 - 2710 As above; trace limestone, buff, crystalline.

2710 - 2720 As above.

2720 - 2730 As above; shale, lavendar and maroon, calcareous.

2730 - 2740 Shale, brown, silty, calcareous; shale, lavendar, calcareous; shale, dark brown, silty.

2740 - 2750 As above; trace limestone, gray,crystalline.

2750 - 2760 Shale, brown and maroon, silty, calcareous, with loose, course, quartz grains and chert pebbles; sandstone, medium to course grain, sub-angular to angular.

2760 - 2770 Shale and conglomerate matrix, as above.

2770 - 2780 Shale, lavendar and maroon, silty; arkosic sandstone, buff, medium grain.

2780 - 2790 Shale, as above; much conglomerate matrix.

2790 - 2800 As above; much sandstone, poorly sorted.

2800 - 2810 As above.

2810 - 2820 As above; increase in shale, lavendar and maroon.

2820 - 2830 As above; many large quartz pebbles.

2830 - 2840 As above; sandstone, buff-gray, fine to medium grain, arkosic.

2840 - 2850 Sandstone, as above; sandstone, orange, medium grain, arkosic, calcareous; <u>much shale cavings</u>.

2850 - 2860 Sandstone, buff-gray and orange, fine to medium grain, arkosic, calcareous.

2860 - 2870 Sandstone, buff-gray and orange, fine to medium grain, arkosic, calcareous.

2870 - 2880 As above.

2880 - 2890 As above; much shale and many rounded, frosted, quartz grains; trace pyrite.

2890 - 2900 As above.

2900 - 2910 Sandstone, orange-brown, fine to medium grain, calcareous, arkosic; shale, gray, silty, and shale, lavendar and green, silty, calcareous, some rounded, frosted, quartz grains.

2910 - 2920 As above; trace limestone, gray, fine crystalline.

2920 - 2930 Shale, gray-lavendar and green, silty, calcareous; trace limestone, gray, sub-lithographic.

2930 - 2940 As above.

2940 - 2950 As above.

2950 - 2960 Siltstone, orange-red, slightly sandy; trace sandstone, gray, medium grain, arkosic.

2960 - 2970 Siltstone, orange, slightly sandy, micaceous.

2970 - 2980 As above; trace sandstone, gray, medium grain, sub-angular to angular, arkosic.

2980 - 2990 As above.

2990 - 3000 As above; inbedded with shale, lavendar and green.

3000 - 3010 As above.

3010 - 3020 As above.

3020 - 3030 As above; inbedded with shale, red-brown, very fine texture.

3030 - 3040 Siltstone, orange; shale, lavendar, slightly silty; trace sandstone, gray, arkosic; trace chert, brown.

3040 - 3050 As above.

3050 - 3060 Siltstone, red-brown and orange; lavendar shale and trace limestone, gray, fine crystalline, sandy; trace sandstone, gray, medium grain, arkosic.

3060 - 3070 As above; increase sandstone.

3070 - 3000 Siltstone, orange, slightly calcareous; shale, maroon, very fine texture.

5080 - 5090 As above; shale, buff.

5090 - 5100 Shale, lavendar, silty; siltstone, orange and trace limestone, orange, crystalline.

5100 - 5110 As above.

5110 - 5120 As above; much siltstone, orange.

5120 - 5130 As above; rounded, frosted, quartz grains and course arkosic sandstone.

5130 - 5140 Siltstone, orange, calcareous and shale, lavendar and green, inbedded.

5140 - 5150 As above; predominantly siltstone.

5150 - 5160 As above; trace limestone, orange, crystalline and trace chert, milky.

5160 - 5170 As above.

5170 - 5180 As above.

5180 - 5190 As above; increase limestone, red-brown, crystalline, some arkosic sandstone, gray.

5190 - 5200 As above.

5200 - 5210 Shale, red-brown, silty; siltstone, orange, calcareous; trace limestone, orange-brown, crystalline.

5210 - 5220 As above.

5220 - 5230 As above; shale, dark gray to black, silty, calcareous; trace chert, smoky.

5230 - 5240 As above; much limestone, red-brown, crystalline.

5240 - 5250 As above; shale, gray, slightly silty, slightly calcareous.

5250 - 5260 As above.

5260 - 5270 Shale, orange-red, silty, calcareous; siltstone, orange, calcareous; limestone, gray to orange, crystalline.

5270 - 5280 As above; trace arkosic sandstone, buff-gray, medium grain; trace sandstone, light green, fine grain.

5280 - 5290 As above.

5290 - 5300 As above.

5300 - 5310 As above.

Sample Tops -			Datum
Shinarump	2740		+2111
De Chelly	2800		+2051
Organ Rock	2912		+1939

3310 - 3320 Siltstone, orange, calcareous; shale, red-brown, silty, calcareous; trace sandstone, gray-green, fine grain, calcareous.

3320 - 3330 As above; trace limestone, gray, crystalline.

3330 - 3340 As above; trace shale, lavender and green, inbedded, calcareous.

3340 - 3350 As above.

3350 - 3360 Siltstone, orange-brown, calcareous, inbedded; trace shale, green, fine texture; trace sandstone, gray, fine grain, calcareous.

3360 - 3370 As above.

3370 - 3380 As above; siltstone, brown; disseminated anhydrite crystals.

3380 - 3390 As above; sandstone, orange, fine to medium grain, calcareous, micaceous.

3390 - 3400 Siltstone, orange-brown, slightly sandy, calcareous; sandstone, green, fine grain, calcareous.

3400 - 3410 As above.

3410 - 3420 As above; less sandstone.

3420 - 3430 Shale, red-brown, silty, calcareous, inbedded; shale, green.

3430 - 3440 As above; trace limestone, gray-brown, crystalline.

3440 - 3450 As above.

3450 - 3460 As above.

3460 - 3470 Siltstone, orange, calcareous; shale, red-brown, silty, calcareous; trace limestone, gray-brown, crystalline (nodular?)

3470 - 3480 As above; trace sandstone, gray-green, fine grain, calcareous.

3480 - 3490 As above.

3490 - 3500 As above; less sandstone.

3500 - 3510 Siltstone, orange-brown, calcareous; trace sandstone, gray, medium grain, arkosic, micaceous, calcareous.

3510 - 3520 As above; increase in sandstone.

3520 - 3530 Siltstone, as above; shale, brown, silty, calcareous, no sandstone.

3530 - 3540 As above.

3540 - 3550 As above; trace limestone, red-brown, crystalline.

3550 - 3560 Shale, and siltstone, orange-brown, calcareous; trace limestone, red-brown, crystalline.

3560 - 3570 As above; trace fine, crystalline anhydrite.

3570 - 3580 As above.

3580 - 3590 Siltstone, orange-brown, calcareous; shale, red-brown, silty, calcareous; trace sandstone, gray, medium grain, sub-rounded to rounded, calcareous, micaceous.

<u>Sample Top</u> - Cedar Mesa 3585

3590 - 3600 As above.

3600 - 3610 As above; anhydrite inclusions.

3610 - 3620 As above; much anhydrite.

3620 - 3630 Siltstone, orange-red to dark red, calcareous; many inclusions of anhydrite.

3630 - 3640 As above; limestone, gray to green, crystalline.

3640 - 3650 As above.

3650 - 3660 Shale, brown, silty, calcareous; anhydrite inclusions; trace limestone, gray, crystalline.

3660 - 3670 As above; siltstone, orange-red, calcareous; much anhydrite.

3670 - 3680 As above.

3680 - 3690 As above.

3690 - 3700 As above; sandstone, gray to buff, medium grain, sub-rounded, arkosic; trace limestone, red to brown, sub-lithographic.

3700 - 3710 Siltstone, orange-brown, calcareous; shale, red-brown, silty; disseminated anhydrite.

3710 - 3720 As above; trace limestone, gray, crystalline; little disseminated anhydrite.

3720 - 3750 As above.

3730 - 3740	Shale and siltstone, brown to orange-brown, calcareous; disseminated anhydrite.
3740 - 3750	As above; trace sandstone, gray, medium to course grain, sub-rounded to rounded, calcareous.
3750 - 3760	As above.
3760 - 3770	As above.
3770 - 3780	As above.
3780 - 3790	Shale and siltstone, orange-brown, calcareous; trace sandstone, gray, sub-rounded to rounded, medium grain, calcareous; trace limestone, gray, crystalline; disseminated anhydrite.
3790 - 3800	As above.
3800 - 3810	Siltstone, brown to orange-brown, very calcareous; disseminated anhydrite; trace sandstone, gray-green, fine grain.
3810 - 3820	As above.
3820 - 3830	As above; trace limestone, gray, crystalline, sandy.
3830 - 3840	As above.
3840 - 3850	As above.
3850 - 3860	Siltstone, orange-brown, calcareous; anhydrite inclusions and trace sandstone, gray-green, fine grain, calcareous.
3860 - 3870	As above.
3870 - 3880	As above.
3880 - 3890	As above.
3890 - 3900	As above; conglomerate sandstone, gray, course, very poorly sorted, hard.
3900 - 3910	Shale and siltstone, orange-brown and brown, calcareous; much anhydrite.
3910 - 3920	As above; shale, lavendar and green, silty, calcareous.
3920 - 3930	Increase in lavendar and green shale; trace limestone, red-brown, crystalline.
3930 - 3940	Shale, lavendar and siltstone, orange-red, calcareous; some conglomerate sandstone, course grain, sub-rounded to rounded, poorly sorted; disseminated anhydrite in shale and siltstone.
3940 - 3950	As above; limestone, gray, crystalline; trace sandstone, medium grain, sub-rounded to rounded, calcareous.

3950 - 3960	Shale, lavendar and green, fine texture, calcareous; siltstone, orange-brown; trace limestone, gray, crystalline, sandy; disseminated anhydrite in siltstone.
3960 - 3970	As above.
3970 - 3980	As above.
3980 - 3990	As above.
3990 - 4000	As above; increase in limestone.
4000 - 4010	Shale, black to gray, silty, calcareous; siltstone, brown, calcareous; much disseminated anhydrite.
4010 - 4020	As above; limestone, gray, medium, crystalline, sandy; large anhydrite inclusions.
4020 - 4030	As above.
4030 - 4040	Shale, lavendar and brown, silty, calcareous; trace sandstone, medium grain, gray, sub-rounded to rounded, calcareous.
4040 - 4050	As above.
4050 - 4060	Shale, lavendar, fine texture, slightly calcareous; shale, brown, silty, calcareous.
4060 - 4070	As above; limestone, gray, crystalline; disseminated anhydrite in shale.
4070 - 4080	Siltstone and shale, orange-brown, calcareous; shale, as above; trace sandstone, gray, medium grain; disseminated anhydrite.
4080 - 4090	As above; increase in sandstone.
4090 - 4100	As above.
4100 - 4110	Shale, lavendar, silty, slightly calcareous; siltstone, orange-brown, calcareous; disseminated anhydrite.
4110 - 4120	As above.
4120 - 4130	As above; sandstone, gray, medium to course grain, arkosic.
4130 - 4140	As above.
4140 - 4150	As above; trace limestone, gray, fine crystalline.
4150 - 4160	Increase in limestone.
4160 - 4170	As above.

4170 - 4180	Limestone, gray and red-brown, crystalline; shale, orange-red, silty, calcareous; sandstone, gray, fine to medium grain, calcareous.
4180 - 4190	Shale and siltstone, orange-brown, calcareous; sandstone, gray, fine to medium grain, calcareous.
4190 - 4200	As above; disseminated anhydrite in shale.
4200 - 4210	As above.
4210 - 4220	Shale and siltstone, as above; limestone, gray and gray-brown, crystalline, sandy; sandstone, medium to course grain, sub-angular to angular, arkosic, micaceous (biotite).
4220 - 4230	As above; much limestone.
4230 - 4240	As above.
4240 - 4250	Increase in sandstone.
4250 - 4260	Siltstone, brown, anhydritic, calcareous; sandstone, gray, medium grain, arkosic; sandstone, gray-green, fine grain, calcareous; limestone, gray-brown, crystalline.
4260 - 4270	As above; shale, lavendar and green, fine texture.
4270 - 4280	Shale, lavendar, green and gray, slightly calcareous; limestone, gray-brown, crystalline, sandy.
4280 - 4290	Siltstone, orange-red, slightly calcareous; anhydrite inclusions; trace sandstone, gray, course grain, sub-rounded to rounded.
4290 - 4300	As above; shale, green, silty and shale, lavendar, fine texture; much anhydrite.
4300 - 4310	As above.
4310 - 4320	As above; less anhydrite.
4320 - 4330	Shale, lavendar, fine texture; shale, brown, silty, anhydritic; trace limestone, red-brown, sub-lithographic and limestone, gray, crystalline.
4330 - 4340	As above.
4340 - 4350	As above.
4350 - 4360	As above; trace sandstone, gray-green, fine to medium grain, calcareous.
4360 - 4370	As above.

4570 - 4580 Siltstone, brown, calcareous, sandy; shale, lavender, fine texture and siltstone, orange to red; trace limestone, gray, sub-lithographic.

4580 - 4590 As above; much limestone.

4590 - 4600 As above.

4600 - 4610 Shale, brown, silty, calcareous, and shale, lavender, fine texture, calcareous; trace limestone, gray to brown, fine crystalline.

4610 - 4620 As above.

4620 - 4630 As above.

4630 - 4640 Shale and siltstone, red to brown and gray, calcareous; shale, lavender; trace limestone, gray, crystalline (nodular?).

4640 - 4650 As above.

4650 - 4660 As above; much limestone; trace anhydrite.

4660 - 4670 Shale, gray and gray to green, silty, sandy, calcareous; much limestone, gray to brown, crystalline; chert, brown.

4670 - 4680 As above.

4680 - 4690 Shale, gray and gray-green, silty, calcareous; trace shale, red-brown; some limestone, gray-green, argillaceous.

4690 - 4700 As above; limestone, gray to green, sandy.

4700 - 4710 As above.

4710 - 4720 As above.

4720 - 4730 As above.

4730 - 4740 Shale, orange-red and red-brown, silty, calcareous; disseminated anhydrite; trace sandstone, buff-gray, medium grain, sub-rounded to rounded; limestone, gray, sub-lithographic to fine crystalline.

4740 - 4750 As above.

4750 - 4760 Limestone, gray to gray-brown, very silty; shale, brown, silty, calcareous.

4760 - 4770 As above; limestone, gray-brown, crystalline, sandy - silty.

4770 - 4780 Limestone, gray, fine crystalline, slightly argillaceous.

4780 - 4790 As above; shale, brown, silty, calcareous.

4790 - 4800 As above; shale is anhydritic.

4600 - 4610 Shale, brown, silty, anhydritic, calcareous; limestone, medium gray, crystalline.

4610 - 4620 As above; sandstone, gray to green, fine grain, calcareous.

4620 - 4630 As above.

4630 - 4640 Limestone, gray and gray-brown, silty; calcareous shale, brown, sandy.

4640 - 4650 As above, becoming anhydritic.

4650 - 4660 As above; shale, dark gray, fine texture, calcareous.

4660 - 4670 As above; sandstone, light brown, fine grain, calcareous.

4670 - 4680 Becoming limestone, gray to brown, sandy.

4680 - 4690 As above; sandstone, light brown, fine grain.

4690 - 4700 Inclusions in limestone, gray, fine crystalline; shale, orange-red, fine texture, calcareous; less sandstone.

4700 - 4710 Shale, brown, silty - sandy, calcareous; limestone, gray, crystalline, sandy.

<u>Sample Top</u> Harmosa 4710 <u>Datum</u> -141

4710 - 4720 Limestone, gray to gray-brown, crystalline, mottled, some argillaceous matrix; trace chert, smoky.

4720 - 4730 As above; shale, orange-red, silty, anhydritic.

4730 - 4740 As above, <u>much smoky chert</u>.

4740 - 4750 Limestone, light to medium gray, crystalline, some chalky.

4740 - 4760 As above, inclusions in shale, gray to gray-green, calcareous.

4760 - 4770 Limestone, gray and gray-buff, some sandy, some very argillaceous, slightly anhydritic.

4770 - 4780 As above; shale, gray, calcareous, fine texture.

4780 - 4790 As above; sandstone, gray-buff, medium grain, sub-rounded to rounded, calcareous.

4790 - 4800 As above.

4800 - 4810 Limestone, buff, lithographic to sub-lithographic; much chert, buff to brown.

4810 - 4820	Limestone, dark gray, crystalline, argillaceous; much shale (cavings?).
4820 - 4830	As above; much shale, orange-red, silty, calcareous; shale, brown, silty, anhydritic.
4830 - 4840	Shale, as above; trace limestone, red-brown, fine crystalline.
4840 - 4850	Limestone, gray and gray-brown, crystalline, sandy; trace sandstone, gray-brown, calcareous.
4850 - 4860	Limestone, gray-buff, sub-lithographic; limestone, gray, medium crystalline, anhydritic.
4860 - 4870	As above; increase in limestone, dark gray, argillaceous.
4870 - 4880	Limestone, gray to dark gray, some crystalline and some very sandy, argillaceous.
4880 - 4890	As above; shale, dark gray, calcareous.
4890 - 4900	As above.
4900 - 4910	Limestone, gray to dark gray, crystalline, argillaceous; shale, gray, slightly silty; trace sandstone, buff, fine grain, calcareous.
4910 - 4920	As above.
4920 - 4930	Shale, gray, slightly silty, calcareous; shale, brown, fine texture, calcareous; limestone, as above.
4930 - 4940	As above.
4940 - 4950	As above.
4950 - 4960	Shale, orange-red to red-brown, calcareous, silty; shale, lavendar; trace limestone, red-brown, crystalline.
4960 - 4970	Limestone, gray, fine crystalline, some chalky; trace shale, as above.
4970 - 4980	As above; increase in shale, brown and lavendar.
4980 - 4990	As above.
4990 - 5000	As above; limestone, becoming more argillaceous.
5000 - 5010	Limestone, gray to dark gray, fine crystalline, argillaceous; shale, gray and maroon, fine texture to silty, calcareous.
5010 - 5020	As above.
5020 - 5030	As above; limestone becoming more argillaceous.

5030 - 5040 Increase in shale, lavendar and gray-green, silty.

5040 - 5050 As above.

5050 - 5060 As above; increase in limestone, gray, fine crystalline, sandy.

5060 - 5070 As above; limestone, light gray, medium crystalline.

5070 - 5080 Limestone, dark gray, crystalline, argillaceous; shale, dark gray, calcareous.

5080 - 5090 Shale, brown to red-brown and gray, silty, calcareous; some limestone, as above.

5090 - 5100 Limestone, gray, crystalline; limestone, buff-gray, lithographic, very hard; much chert, light brown; shale, orange-red, calcareous.

5100 - 5110 As above; lavendar shale; much chert, brown.

5110 - 5120 Limestone, medium to dark gray, crystalline; limestone, gray-buff, crystalline; shale, gray-brown, silty, calcareous.

5120 - 5130 As above; shale, red-brown, fine texture, calcareous.

5130 - 5140 Limestone, gray to dark gray, crystalline, argillaceous; shale, red-brown, fine - silty, calcareous.

5140 - 5150 As above; limestone, gray, crystalline, sandy; inclusions in lavendar shale.

5150 - 5160 Shale, lavendar, fine texture, slightly calcareous; shale, red-brown, silty, calcareous; limestone, medium gray to gray, crystalline.

5160 - 5170 As above; limestone, argillaceous.

5170 - 5180 As above.

5180 - 5190 Limestone, gray to dark gray, fine crystalline, very argillaceous; shale, as above.

5190 - 5200 As above.

5200 - 5210 Limestone, as above; shale, red, slightly silty, calcareous; shale, lavendar, fine texture.

5210 - 5220 Limestone, dark gray, very argillaceous; shale, as above.

5220 - 5230 As above; sandstone, gray, fine grain, calcareous, micaceous.

5230 - 5240 Sandstone, as above; limestone, gray, crystalline, sandy.

5240 - 5250 Limestone, medium gray, crystalline, slightly argillaceous.

5250 - 5260 As above; shale, red-brown and lavendar, silty, calcareous.

5260 - 5270 As above, becoming dark gray and silty; increase in shale, as above.

5270 - 5280 As above.

5280 - 5290 Shale, light brown, fine texture; shale, dark gray, silty, calcareous; limestone, gray, crystalline, argillaceous.

5290 - 5300 As above.

5300 - 5310 Shale, red and red-brown, silty, calcareous; trace lavendar shale and limestone, gray, crystalline.

5310 - 5320 As above; limestone, dark gray, crystalline, argillaceous.

5320 - 5330 As above; trace anhydrite.

5330 - 5340 As above.

5340 - 5350 As above; much limestone, medium gray, crystalline, some chalky.

5350 - 5360 Limestone, light to medium gray, sandy; shale, red-brown, silty, calcareous.

5360 - 5370 As above; trace sandstone, medium to course grain, buff, sub-rounded to rounded.

5370 - 5380 As above.

5380 - 5390 As above.

5390 - 5400 As above; limestone, dark gray, argillaceous; trace anhydrite in shale.

5400 - 5410 Much shale, red-brown, silty, calcareous; limestone, medium to dark gray, crystalline, argillaceous.

5410 - 5420 Inclusions in limestone, as above.

5420 - 5430 Limestone, dark gray, fine crystalline, argillaceous; shale, black, silty, calcareous; shale, brown, fine texture and trace limestone, buff, crystalline.

5430 - 5440 Limestone, gray-buff, mottled, crystalline, slightly sandy; shale, red-brown, silty, slightly calcareous.

5440 - 5450 As above; shale, dark gray, silty, calcareous.

5450 - 5460 Limestone, gray to dark gray, fine crystalline, argillaceous; shale, dark gray, silty; shale, brown, silty, calcareous.

5460 - 5470 As above; shale, orange-red, silty, calcareous; trace anhydrite.

5470 - 5480 Limestone, medium to dark gray, fine crystalline, argillaceous; w/limestone, gray, crystalline; shale, red-brown, silty, calcareous and shale, gray to black, silty, calcareous.

5480 - 5490 As above; limestone, gray-brown, crystalline, sandy.

5490 - 5500 As above.

5500 - 5505 As above; w/inclusions in shale, dark gray, fine texture, calcareous.

5505 - 5510 As above.

5510 - 5515 Shale, as above; w/limestone, medium gray, crystalline, slightly sandy.

5515 - 5520 As above.

5520 - 5525 As above.

5525 - 5530 Shale, dark gray to black, silty, calcareous, micaceous, slightly anhydritic.

5530 - 5535 As above.

Paradox 5552'

5535 - 5540 As above; trace limestone, buff-gray, crystalline, anhydritic.

5540 - 5545 Limestone, gray-buff and dark gray, fine to medium crystalline, much shale caving, argillaceous.

5545 - 5550 Trace chert, buff, and limestone, as above. Very Poor Sample.

5550 - 5555 As above. Very Poor Sample.

5555 - 5560 As above; trace vugular porosity , fair fluorescence. Very Poor Sample.

5560 - 5565 Limestone, gray-buff, fine crystalline, some sandy, slightly anhydritic.

5565 - 5570 As above; some chalky; trace chert, smokey.

5570 - 5575 As above, Very Poor Sample, much shale cavings.

5575 - 5580 Limestone, light to dark gray, crystalline; trace intercrystalline porosity; chert, smokey, much cavings.

5580 - 5585 Limestone, as above; chert, milky.

5585 - 5590 As above; less chert.

5590 - 5595 Limestone, gray - buff, fine to medium crystalline; trace chert.

5595 - 5600 As above.

Core #1, 5602 - 5639, cut 37', recovered 35.5'.

5602 - 5603	Limestone, gray, fine crystalline, slightly anhydritic, fair to medium vugular porosity, good fluorescence, bleeding oil and gas.
5603 - 5604	As above, very fossiliferous.
5604 - 5605	As above, vugs lined w/calcareous crystals, free calcite.
5605 - 5606	As above.
5606 - 5607	As above.
5607 - 5608	Limestone, dark gray, fine crystalline, anhydritic, argillaceous, dense.
5608 - 5609	As above, very argillaceous, fossiliferous.
5609 - 5610	As above.
5610 - 5611	As above.
5611 - 5612	As above; shale partings.
5612 - 5613	As above, very argillaceous.
5613 - 5614	As above.
5614 - 5615	Limestone, medium gray, crystalline, anhydritic, slightly argillaceous, dense.
5615 - 5616	As above.
5616 - 5617	As above.
5617 - 5618	As above.
5618 - 5619	As above.
5619 - 5620	Limestone, dark gray, sub-lithographic, very hard and dense.
5620 - 5621	Limestone, dark gray, fine crystalline, argillaceous, dense.
5621 - 5622	As above.
5622 - 5623	As above, very argillaceous.
5623 - 5624	As above.
5624 - 5625	As above.

5625 - 5626 Limestone, dark gray, fine crystalline, very argillaceous, dense.

5626 - 5627 As above.

5627 - 5628 As above, very argillaceous.

5628 - 5629 As above.

5629 - 5630 As above.

5630 - 5631 Limestone, dark gray, fine crystalline, very argillaceous, dense.

5631 - 5632 Asabove.

5632 - 5633 As above.

5633 - 5634 As above, very argillaceous.

5634 - 5635 As above.

5635 - 5636 As above.

5636 - 5637 As above.

5637 - 5638 As above; free calcite veins.

5638 - 5639 Not recovered.

Core #2, 5639 - 5686, cut 47', recovered 43'.

5639 - 5640 Limestone, medium to dark gray, fine crystalline, fossiliferous, (brachiopods), slightly argillaceous.

5640 - 5641 As above.

5641 - 5642 As above.

5642 - 5643 As above.

5643 - 5644 Limestone, dark gray, fine crystalline, very argillaceous.

5644 - 5645 Shale, black, fine texture, slightly anhydritic.

5645 - 5646 Limestone, dark gray, fine crystalline, very argillaceous, slightly anhydritic.

5646 - 5647 As above.

5647 - 5648 Limestone, gray, crystalline, very anhydritic, dense.

5648 - 5649 As above.

5649 - 5650 As above.

5650 - 5651 Limestone, medium to dark gray, fine crystalline, argillaceous.

5651 - 5652 Limestone, medium gray, crystalline, dense, fossiliferous, fusulinid.

5652 - 5653 As above.

5653 - 5654 As above.

5654 - 5655 As above, slightly chalky.

5655 - 5656 As above, very fossiliferous.

5656 - 5657 Limestone, gray, fine crystalline, slightly dolomitic, w/scattered vugular porosity, fair odor, no bleeding.

5657 - 5658 As above, very fossiliferous, pale fluorescence.

5658 - 5659 As above, large fossils, fusulinids.

5659 - 5660 Limestone, medium gray, coarse crystalline, dense.

5660 - 5661 As above, w/thin streak slight porosity, no bleeding, no fluorescence.

5661 - 5662 Limestone, medium gray, coarse crystalline, anhydritic, dense.

5662 - 5663 Dolomite, light brown, earthy, no visible porosity, no fluorescence.

5663 - 5664 As above, w/odor and spotted fluorescence.

5664 - 5665 Dolomite, light brown, sucrosic, anhydritic, fair odor and fluorescence.

5665 - 5666 As above, w/large inclusions crystalline anhydrite.

5666 - 5667 As above, good odor and fluorescence.

5667 - 5668 Limestone, medium gray, slightly dolomitic, anhydritic, dense, no fluorescence.

5668 - 5669 Limestone, light gray, fine crystalline, dolomitic, dense.

5669 - 5670 Limestone, medium to dark gray, fine crystalline, dense.

5670 - 5671 As above, anhydritic.

5671 - 5672 Limestone, light gray, fine crystalline, dense, slightly dolomitic.

5672 - 5673 As above.

5673 - 5674 Limestone, medium gray, fine crystalline, very anhydritic.

5674 - 5675 Dolomite, gray, sucrosic, no visible porosity, no fluorescence, anhydritic.

5675 - 5676 Limestone, gray, fine crystalline, dense, anhydritic.

5676 - 5677 As above, fossiliferous.

5677 - 5678 As above.

5678 - 5679 As above and limestone, gray to dark gray, medium crystalline, slightly argillaceous, dense.

5679 - 5680 Limestone, gray to dark gray, medium crystalline, slightly argillaceous, dense.

5680 - 5681 Limestone, gray to dark gray, medium to coarse crystalline, argillaceous, dense.

5681 - 5682 Shale, black, fine texture, slightly calcareous, slightly anhydritic.

5682 - 5686 Not recovered.

Core #5, 5686 - 5716, cut 30', recovered 28'.

5686 - 5687 Shale, black, slightly calcareous, slightly anhydritic, fine texture.

5687 - 5688 As above.

5688 - 5689 As above.

5689 - 5690 As above.

5690 - 5691 As above.

5691 - 5692 As above.

5692 - 5693 As above.

5693 - 5694 As above.

5694 - 5695 As above.

5695 - 5696 Limestone, dark gray, crystalline, argillaceous, anhydritic, fossiliferous.

5696 - 5697 As above.

Paradox "C" 5695'

5697 - 5698 As above, becoming very anhydritic.

5698 - 5699 As above, becoming less argillaceous.

5699 - 5700 Limestone, dark gray - brown, fine crystalline, anhydritic, w/fair to good leached oolicastic porosity, bleeding oil and gas, good fluorescence and odor.

5700 - 5701 Limestone, medium gray, fine crystalline, anhydritic, very little porosity, bleeding and fluorescence on fractures; shale partings.

5701 - 5702 Limestone, gray-brown, fine crystalline, anhydritic, w/good oolicastic porosity, bleeding oil and gas, good fluorescence and odor.

5702 - 5703 As above, very fossiliferous (fusulinid), bleeding oil and gas and some water (probably filtrate).

5703 - 5704 As above, excellent porosity, appears filtrate invaded.

5704 - 5705 As above.

5705 - 5706 As above, streaks black hydrocarbon residue.

5706 - 5707 As above.

5707 - 5708 As above (high coring time probably due to barrel jamming).

5708 - 5709 Limestone, medium gray, fine crystalline, fairly dense w/slight fluorescence on fresh fracture.

5709 - 5710 As above, no fluorescence.

5710 - 5711 Limestone, medium gray, coarse crystalline, w/scattered vugular porosity, slight fluorescence.

5711 - 5712 Limestone, as above w/fair vugular porosity, good odor and fluorescence, bleeding oil and gas, very fossiliferous.

5712 - 5713 As above, brecciated.

5713 - 5714 As above.

5714 - 5716 <u>Not recovered</u>. Barrel Jammed.

<u>Core #4, 5716 - 5748</u>, cut 32', recovered 32'.

5716 - 5717 Limestone, medium gray, fine crystalline, fair vugular porosity, pale fluorescence, bleeding oil and gas, anhydritic.

5717 - 5718 As above, very fossiliferous, vugs filled w/crystalline anhydrite; trace hydrocarbon residue.

5718 - 5719 As above.

5719 - 5720 Limestone, medium gray, crystalline, dense, anhydritic, stylolite seams.

5720 - 5721 As above, medium to coarse crystalline.

5721 - 5722 As above.

5722 - 5723 As above.

5723 - 5724 Limestone, medium gray, medium crystalline w/scattered vugular porosity, no bleeding.

5724 - 5725 As above, very anhydritic, vugs filled w/large anhydrite crystals, pale spotted fluorescence.

5725 - 5726 Limestone, medium gray, crystalline, anhydritic, dense.

5726 - 5727 As above, becoming argillaceous w/stylolites.

5727 - 5728 Limestone, gray-brown, fine crystalline, oolitic, w/fair pinpoint and vugular porosity, anhydritic, bleeding oil and gas.

5728 - 5729 As above; fair fluorescence, some leached oolites.

5729 - 5730 As above.

5730 - 5731 As above, becoming less porous, trace fluorescence.

5731 - 5732 Limestone, medium gray, fine crystalline, dense, stylolites, anhydritic.

5732 - 5733 As above.

5733 - 5734 As above.

5734 - 5735 Limestone, gray, fine to coarse crystalline, fair intercrystalline porosity, fair fluorescence, bleeding oil and gas.

5735 - 5736 As above.

5736 - 5737 Limestone, medium gray, fine crystalline, dense.

5737 - 5738 As above.

5738 - 5739 As above.

5739 - 5740 Limestone,gray-buff, dolomitic, slight scattered porosity, slight bleeding oil and gas and salt water, fair fluorescence.

5740 - 5741 As above, slight pale fluorescence.

5741 - 5742 As above, fair fluorescence.

5742 - 5743 As above, fair fluorescence.

5743 - 5744 Dolomite, brown, sucrosic, odor, fair to good fluorescence, no visible porosity.

5744 - 5755 Dolomite, brown, sucrosic, anhydritic, no visible porosity, stain, odor, fair fluorescence.

5745 - 5746 As above; some large anhydrite inclusions.

5746 - 5747 As above, plus fluorescence.

5747 - 5748.5 Limestone, dark gray, fine crystalline, very argillaceous

DST #2, 5698 - 5748.5'. Open 1 hour, shut in 45", good blow in 1" and throughout test, gas in 25" (10,000 cu. ft. est.). Recovered 200' mud cut oil (75% oil) and 264' free oil. IHP 2970, IFP 55, FFP 125, FHP 2960, BHP - 1995#.

Core #5, 5748.5 - 5806, cut 57.5', recovered 55'.

5748.5-5750 Limestone, gray, crystalline, dense.

5750 - 5751 As above.

5751 - 5752 As above.

5752 - 5753 Limestone, gray, crystalline, anhydritic, fair vugular porosity, good odor, bleeding oil and gas, good fluorescence.

5753 - 5754 Limestone, as above w/good vugular and inter-crystalline porosity, good fluorescence.

5754 - 5755 As above, some hydrocarbon residue in vugs.

5755 - 5756 As above.

5756 - 5757 As above.

5757 - 5758 As above.

5758 - 5759 Limestone, medium gray, crystalline, anhydritic, dense.

5759 - 5760 As above.

5760 - 5761 As above.

5761 - 5762 Limestone, gray, fine crystalline, anhydritic, fair vugular porosity, slight bleeding oil, fair fluorescence.

5762 - 5763 As above.

5763 - 5764	Limestone, medium gray, fine crystalline, dense, stylolite, anhydritic.
5764 - 5765	As above.
5765 - 5766	As above.
5766 - 5767	As above.
5767 - 5768	As above.
5768 - 5769	As above.
5769 - 5770	As above.
5770 - 5771	As above, fossiliferous.
5771 - 5772	As above.
5772 - 5773	As above.
5773 - 5774	As above.
5774 - 5775	As above.
5775 - 5776	Limestone, medium to dark gray, fine to coarse crystalline, dense, anhydritic.
5776 - 5777	Limestone, medium gray, fine crystalline, anhydritic, dense, stylolite.
5777 - 5778	As above.
5778 - 5779	As above.
5779 - 5780	Limestone, medium to dark gray, fine to coarse crystalline, dense,
5780 - 5781	Limestone, medium to dark gray, fine crystalline, dense.
5781 - 5782	Limestone, light gray, fine crystalline, anhydritic, dense.
5782 - 5783	As above.
5783 - 5784	As above.
5784 - 5785	Limestone, medium gray, fine crystalline, fair vugular porosity, no bleeding, no fluorescence.
5785 - 5786	Limestone, as above, scattered vugular porosity, spotted fluorescence, stylolite.
5786 - 5787	Limestone, light gray, very fossiliferous, Reef Breccia, fair to good porosity, good odor, good fluorescence.

5787 - 5788 As above, good odor and fluorescence, dead oil in vugs.

5788 - 5789 As above.

5789 - 5790 Limestone, light gray, dolomitic, scattered inter-crystalline porosity, spotted fluorescence.

5790 - 5791 As above, very fossiliferous, anhydritic, w/good vugular porosity, good fluorescence, very little bleeding.

5791 - 5792 As above, good fluorescence, very little bleeding oil and gas.

5792 - 5793 Limestone, light gray, Reef Breccia, good porosity, good fluorescence, slight bleeding oil, gas and salt water.

5793 - 5794 As above.

5794 - 5795 As above.

5795 - 5796 Limestone, medium gray, fine to coarse crystalline, fair inter-crystalline porosity, fair fluorescence.

5796 - 5797 Limestone, light gray, fine crystalline, anhydritic, w/fair to good inter-crystalline porosity, fair fluorescence.

5797 - 5798 As above.

5798 - 5799 Dolomite, brown, sucrosic, anhydritic, fair to good vugular porosity, good fluorescence, very little bleeding oil.

5799 - 5800 Limestone, light gray, medium to coarse crystalline, fair inter-crystalline, porosity, fair fluorescence.

5800 - 5801 As above, becoming very fossiliferous.

5801 - 5806 Not recovered.

DST #5, 5750 - 5806, Open 1 hour, shut in 45 minutes. Recovered 300' oil and gas cut mud, 90' highly oil and gas cut mud (no water). Gas in 40 minutes. IFP 50, FFP 155, IHP 3040, FHP 3040, SIBHP 1920#.

Core #6, 5806 - 5849, cut 43', recovered 39'.

5806 - 5807 Limestone, gray-buff, fine crystalline, fair to good vugular porosity, odor and fluorescence.

5807 - 5808 As above, vugs filled w/crystalline anhydrite, slight bleeding oil and gas.

5808 - 5809 As above, fair fluorescence.

5809 - 5810 As above.

5810 - 5811 As above, vugs filled w/calcite.

5811 - 5812 As above, fair fluorescence.

5812 - 5813 As above.

5813 - 5814 Limestone, as above, poor porosity, little fluorescence.

5814 - 5815 As above.

5815 - 5816 Limestone, gray-buff, fine crystalline, fair to good vugular porosity, fluorescence, slight bleeding oily gas and salt water.

5816 - 5817 As above; vugs calcite filled.

5817 - 5818 As above.

5818 - 5819 As above.

5819 - 5820 As above.

5820 - 5821 As above, very fossiliferous, much coarse crystalline calcite.

5821 - 5822 As above, very good porosity, slight bleeding oil, gas and salt water.

5822 - 5823 As above.

5823 - 5824 Limestone, gray-buff, fine to coarse crystalline, poor to fair vugular porosity, slight bleeding oil and salt water.

5824 - 5825 As above., anhydritic w/some large calcareous crystals.

5825 - 5826 As above.

5826 - 5827 As above, fair fluorescence.

5827 - 5828 Limestone, medium gray, fine to medium crystalline, fair porosity, anhydritic, bleeding oil and salt water.

5828 - 5829 As above, fair fluorescence, large calcareous crystals.

5829 - 5830 As above, scattered fluorescence.

5830 - 5831 As above, pale fluorescence.

5831 - 5832 As above.

5832 - 5833 As above.

5833 - 5834 As above.

5854 - 5855 Limestone, medium gray, fine to coarse crystalline w/large anhydrite crystals, fossiliferous, fair to good vugular porosity, slight bleeding oil and salt water.

5855 - 5856 As above, w/pale spotted fluorescence, stylolitic.

5856 - 5857 As above, good porosity.

5857 - 5858 As above.

5858 - 5859 As above.

5859 - 5840 As above.

5840 - 5841 As above, very anhydritic.

5841 - 5842 As above, no fluorescence, slightly bleeding salt water.

5842 - 5843 As above, less porous.

5843 - 5844 Limestone, medium to dark gray, fine crystalline, poor to vugular porosity, slight bleeding salt water, no fluorescence.

5844 - 5845 As above.

5845 - 5849 Not recovered.

DST #4, 5805 - 5849. Tool open 1 hour, shut in 45 minutes, good blow throughout, recovered 3400' oil and gas cut salt water. IHP 5255, IFP 215, FFP 1690, FHP 5255, BHT 155°, BHP 2080#.

Finished coring at 5849'; drilled to 5900', caught 5' samples.

5850 - 5855 Limestone, gray, fine crystalline (samples very poor - hardly readable).

5855 - 5860 As above; trace dolomite, brown, earthy.

5860 - 5865 Limestone, gray-buff, anhydritic (sample mostly shale cavings).

5865 - 5870 As above; w/limestone, light gray, fine crystalline, chalky.

5870 - 5875 As above.

5875 - 5880 Very, very poor samples. Cavings from uphole. (Mud OK)

5880 - 5885 Trace shale, black, slightly calcareous, slightly anhydritic.

5885 - 5890 As above.

5890 - 5895 As above.

5895 - 5900 As above. Very poor sample.

TD 5900'. Ran Schlumberger 11/26/57, ES-Ind, LL, ML.

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

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)

March 29, 1962

Aneth Unit
Well No. H227 is located 1980 ft. from {N} line and 630 ft. from {E} line of sec. 27

NE¼ 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 4840 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 2-2-62. Ran tubing with bit and drilled out plug at 5744' and cement to 5824'. Perforated 5-1/2" casing from 5785' to 5820' with 2 jet shots per foot. Set packer at 5773' and treated perforations with 500 gallons of MCLST acid and 3000 gallons of emulsified acid. After completing treatment, pulled packer. Ran 2-7/8" plastic lined tubing with Baker Injection Packer and set packer at 5636'. Put inhibiter behind packer and tested with 1000# pressure, packer tested OK. Completed workover and shut well in 2-7-62. This well is now classified as a water injection well and was 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, New Mexico

By C P Lamm

Title District Superintendent

Form 9-331 b
(April 1952)

Copy to HLC

(SUBMIT IN TRIPLICATE)

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

Indian Agency Navajo

Allottee

Lease No. 14-20-603-2056

UNITED STATES
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NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

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

July 10, 1963

Aneth Unit
Well No. H227 is located 1980 ft. from {N} line and 630 ft. from {E} line of sec. 27

NW¼ 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 4840 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 4-2-63.

Reason for workover was to increase injectivity by acidizing.

Acidized all perforations (5696' to 5748' and 5785' to 5820') through tubing with 1500 gallons of regular 15% acid with 1000 cubic feet of CO_2 gas per barrel of acid. Treating pressure 2600 to 1000 PSI with an average injection rate of 4½ barrels per minute. After completing treatment, back flowed and returned well to water injection. On 24 hour test ending 4-3-63, injected 2545 barrels of water in well with an injection tubing pressure of 1100 PSI.

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

Company TEXACO Inc.

Address Box 810
Farmington, New Mexico

By [signature]

Title District Superintendent

U.S. GOVERNMENT PRINTING OFFICE 16—8437b-9

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.)

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

2. NAME OF OPERATOR
TEXACO Inc.

3. ADDRESS OF OPERATOR
Box 810, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980' from North Line and 630' from East Line

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
Aneth Unit

8. FARM OR LEASE NAME

9. WELL NO.
H-227

10. FIELD AND POOL, OR WILDCAT
Aneth

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

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4840' 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	X	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.) *

Reason for workover was to increase injectivity by acidizing.

Commenced workover 6-2-64.

Treated all perforations (5696' to 5748' and 5785' to 5820') through tubing with 600 gallons of 15% HCL acid with iron stabilizing agent added. Treating pressure 300# PSI with an injection rate of two barrels per minute. Acid was left on bottom for one hour then back flushed from well. After completing treatment, returned to injection. Injected 2290 barrels of water into well on 24 hour test ending 6-3-64.

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

SIGNED G. Eaton TITLE **Acting District Supt.** DATE **8-21-64**

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

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.)

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

2. NAME OF OPERATOR
Texaco Inc. Pure Oil Co.

3. ADDRESS OF OPERATOR
P. O. Box 810, Farmington, New Mexico, 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980' from North line and 630' from East line

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-4956

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
Aneth Unit

8. FARM OR LEASE NAME

9. WELL NO.
E-307

10. FIELD AND POOL, OR WILDCAT
Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
27, T40S, R24E, SLM

12. COUNTY OR PARISH San Juan

13. STATE Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4840' KB

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	X	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.)*

Reason for workover was to increase injectivity by acidizing.

Commenced workover 10-19-65.

Treated all perforations (5696' to 5748' and 5785' to 5820') through tubing with 600 gallons of 15% HCL acid with iron stabilizing agent added. Treating pressure was 1750 to 1400 psi with an average injection rate of 3½ barrels per minute. After back flowing well, returned to injection. Injected 170± barrels of water into well with a tubing pressure of 1125 psi on 24 hour test ending 10-23-65.

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

SIGNED C. P. Harmon TITLE District Superintendent DATE 10-28-65

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

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.

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: Box 810, Farmington, New Mexico 87401

9. WELL NO.: H227

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' FNL and 630' FEL

10. FIELD AND POOL, OR WILDCAT: Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 27, T40S, R24E, SLM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4840' 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	X	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.)*

Reason was to increase injectivity.

Commenced workover 9/11/67.

Acidized with 87 acid sticks. On test ending 9/12/67, injected 662 BW in 24 hours. Injection tubing pressure 1,375 psi.

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

SIGNED [illegible] TITLE District Superintendent DATE 9/22/67

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Water Injection

2. NAME OF OPERATOR: TEXACO Inc.

3. ADDRESS OF OPERATOR: Box 810, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' from North Line and 630' from East line

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME: Aneth Unit

8. FARM OR LEASE NAME:

9. WELL NO.: 32-27

10. FIELD AND POOL, OR WILDCAT: Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 27, T40S, R24E, SLM

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4840' DF

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	X	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.)*

TD 5900', PBTD 5824'.

Reason for workover was to increase injectivity by acidizing.

Commenced workover on 5/6/68. Drilled out packer at 5636'. Perforated 5½" casing from 5751' to 5756' and 5760' to 5762'. Set bridge plug at 5770' and packer at 5665'. Treated perforations 5696' to 5748', 5751' to 5756' and 5760' to 5762' in three stages with 28% NE-HCL acid. Treated first stage with 2000 gallons of acid and flushed with 4000 gallons of water. Treating pressure 2500 psi to 1100 psi with an average injection rate of three barrels per minute. Spotted 1000 gallon salt plug and treated second stage with 3000 gallons of acid and flushed with 6000 gallons of water. Treating pressure 3200 psi to 2800 psi with an average injection rate of three barrels per minute. Spotted 500 gallon salt plug and treated third stage with 4000 gallons of acid and flushed with 8000 gallons of water. Treating pressure 3500 psi to 3200 psi with an average injection rate of three barrels per minute. Pulled packer and bridge plug. Ran plastic-coated tubing and set injection packer at 5602'. Loaded casing annulus with inhibited water and returned to water injection. Injected 1296 barrels of water into well on 24 hour test ending 5/28/68 with injection tubing pressure of 1580 psi.

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

SIGNED [signature] TITLE District Superintendent DATE 8/16/68

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Water Injection

2. NAME OF OPERATOR
TEXACO Inc. - Prod. Dept. - Rocky Mtns. - U.S.

3. ADDRESS OF OPERATOR
Box 810, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980 f/No. and 630 f/E

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
Aneth Unit

8. FARM OR LEASE NAME

9. WELL NO.
H-227

10. FIELD AND POOL, OR WILDCAT
Aneth

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

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4840' DF

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	X	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

Acidized w/750 gal. 15% reg. acid w/L-41 and flush w/880 gal. injection water via tubing. Max. pressure 2400, min. 2400 @ avg. rate of 1.4 BPM. Flush @ 1.4 BPM, max. 2800, min. 2400. SIP 2400. Injection before 400 BWPD after 1350 @ 2025. Work completed 6-16-71.

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

SIGNED G Slater TITLE District Superintendent DATE 8-12-71

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

SLC

USGS(3)-OGCC(2)-Nav. Tribe-HHB-WLW-GLE-Superior (Cortez)

FORM NO. DOGM-UIC-1

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)

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 H227 **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.** H227	**Field** Aneth	**County** San Juan
Location of Enhanced Recovery Injection or Disposal Well SE¼ NE¼	**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** 9-22-83	
Depth-Base Lowest Known Fresh Water Within ½ Mile 1250'	**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** 5696 to 5820		
a. Top of the Perforated Interval: 5696'	**b. Base of Fresh Water:** 1250'	**c. Intervening Thickness (a minus b)** 4446'	

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 10/25/87

Joe D. Roybal
Notary Public in and for Colorado

(OVER) 728 N. Beech, Cortez, Co. 81321

INSTRUCTIONS

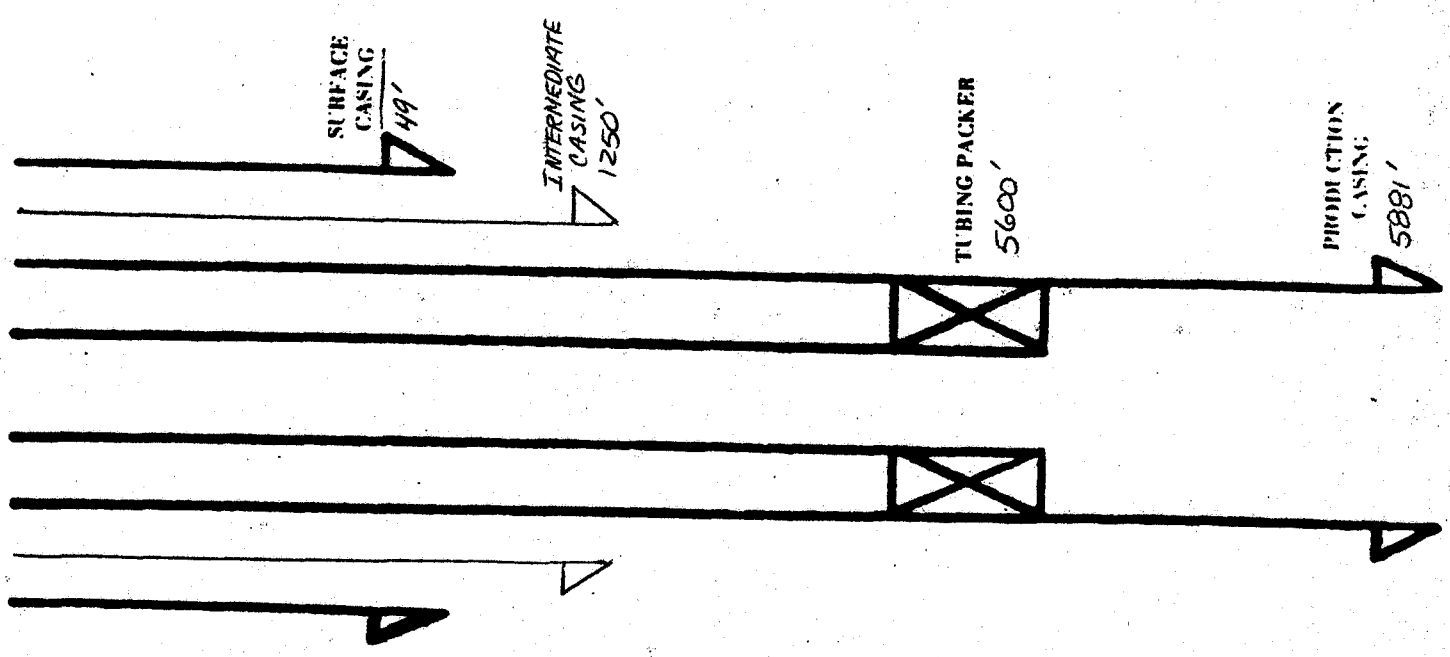
1. Attach qualitative and quantitative analysis of fresh water from 2 or more producing wells within 1 mile of injection well showing location of wells and date samples were taken, or statement as to why samples were not submitted.
2. Attach qualitative and quantitative analysis of representative sample 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	13 3/8"	49'	50	NA	—
Intermediate	9 5/8"	1250'	700	NA	—
Production	5 1/2"	5881'	500	NA	—
Tubing	2 3/8"	5600'	Name - Type - Depth of Tubing Packer: Baker - Model R-3 - 5600'		

Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval	Depth - Base of Inj. Interval
5900'	Desert Creek	5696'	5820'

SKETCH - SUB-SURFACE FACILITY



FORM DOGM-UIC-7
(Rule I-5 (b) 2

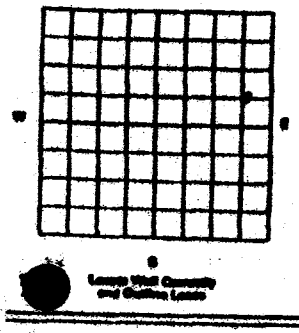
PLEASE TYPE OR USE BLACK INK ONLY

(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



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. H227
DRILLING STARTED 10-26 1957 DRILLING FINISHED 11-26 1957
DATE OF FIRST PRODUCTION 1-4-58 COMPLETED 1-4-58
WELL LOCATED E½ SE ¼ NE ¼
3300 FT. FROM SL OF SEC. & 4650 FT. FROM WL OF SEC.
ELEVATION DERRICK FLOOR 4840' GROUND 4829

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

OIL OR GAS ZONES

Name	From	To	Name	From	To
Desert Creek	5692	5900			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt	Grade	Feet	Psi	Sax	Fillup	Top
13⅜"	48 #/ft	H	49	NA	50	—	NA
9⅝"	36 #/ft	J	1250	NA	700	—	NA
5½"	15.5 #/ft	J	5881	NA	500	—	NA

TOTAL DEPTH 5900'

PACKERS SET DEPTH 5600'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		
PERFORATED	5696-5748	5785-5820(2-2-62)	-Conv to WI
INTERVALS		(5-6-68) 5751-56, 5760-62	
ACIDIZED?	Acidized w/8000 gal reg acid	Yes	
FRACTURE TREATED?	No	No	

INITIAL TEST DATA

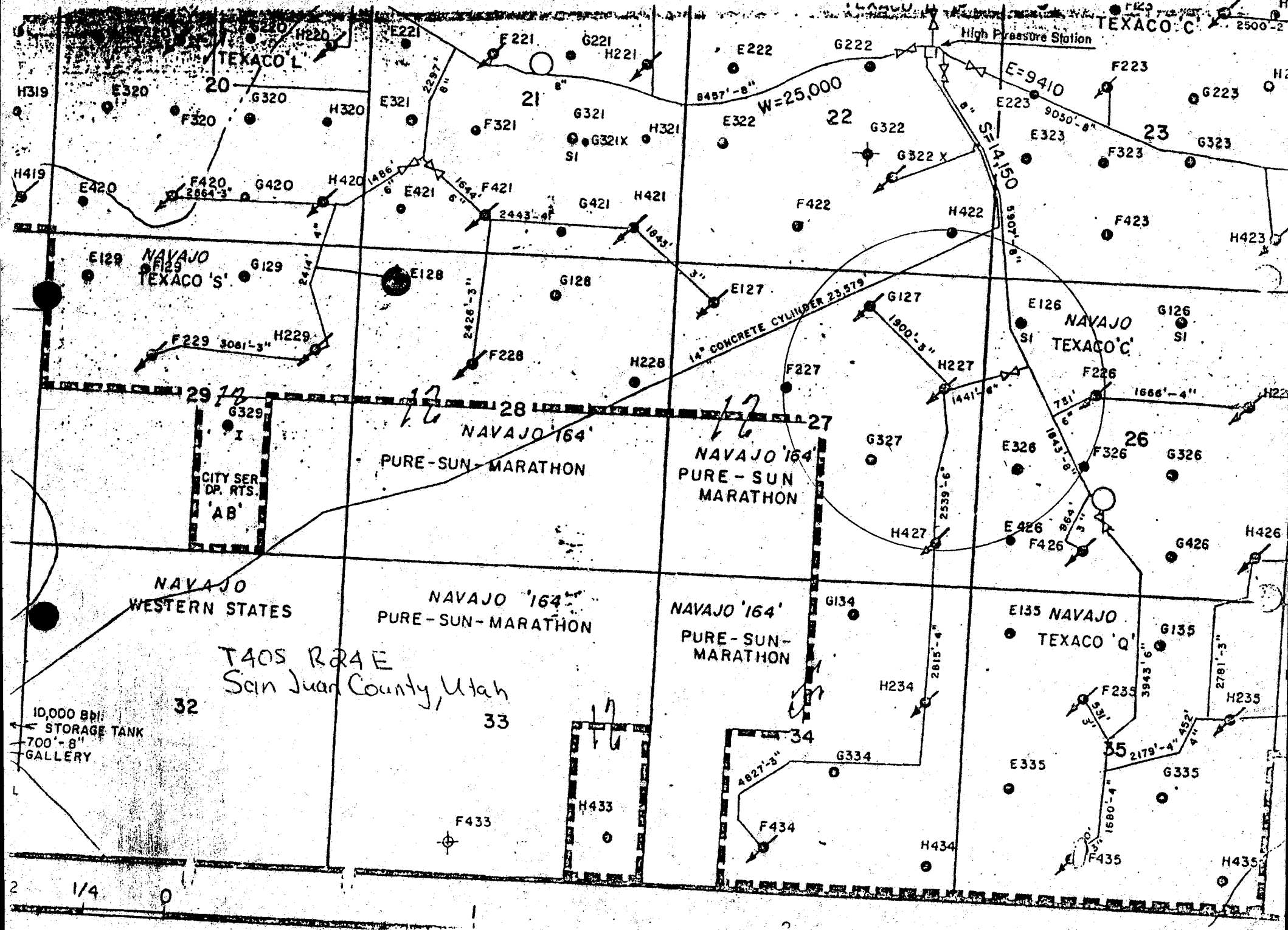
Date	1-4-58		
Oil, bbl./day	508		
Oil Gravity	35		
Gas, Cu. Ft./day	— CF	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	—		
Water-Bbl./day	0		
Pumping or Flowing	Flowing		
CHOKE SIZE	48/64"		
FLOW TUBING PRESSURE	150 #		

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.
My Commission expires 10/26/87
Joe D. Roybal
728 N. Beech, Cortez, Co. 81321


TEXACO 'L'
TEXACO 'C'
High Pressure Station
E=9410
W=25,000
S=14,150
14" CONCRETE CYLINDER 23,579'
NAVAJO
TEXACO 'S'
NAVAJO
TEXACO 'C'
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
1/4

FORM S-45 10 78

TEXACO

INSTRUCTIONS - CANCELS LETTER: SI 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.

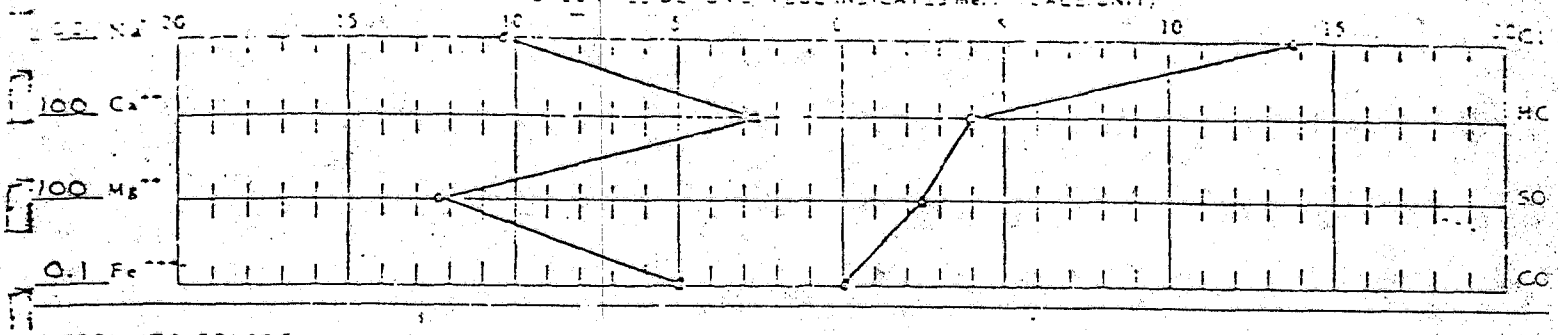
P.O. Box 1675, Houston, Texas 77001

WATER ANALYSIS REPORT

SHEET NUMBER	
COMPANY	TEXACO, INCORPORATED
DATE	5 APRIL
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, MMCF/DAY	
DATE SAMPLED	5 APRIL 1982
TYPE OF WATER	☐ PRODUCED ☒ SUPPLY ☒ WATERFLOOD ☐ SALT WATER

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 con used interchangeably for epm c respectively. Where epm and p 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. Smith Unit #227

County: San Juan T 40S R 24E Sec. 27 API# 43-037-16317

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-Ismay	
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 1250
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: [signature]

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 40S 24E Sec 27	
H-410	
H-427	
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

#227 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-227

Township: 40S Range: 24E Sect:27

API: 43-037-16317

Welltype: INJW Max Pressure: 2500

Lease type: INDIAN

Surface Owner: NAVAJO

Last MIT Date: 09/22/83

Witness: F Test Date: 9-30-87

CASING STRING	SIZE	SET AT	PRESSURE	OBSERVATIONS
Surface:	133/8	49	0	
Intermediate:	9 5/8	1250		
Production:	5 1/2	5881	2050	COMMUNICATED
Other:		0		
Tubing:	2 3/8		2300	Rate @ 200/Day
Packer:		5600		

Recommendations:

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

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

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 [illegible] Title UIC Manager
Approval Date 6-26-91

(3/89)

Form OGC-1b

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

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

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

RECEIVED MAY 2 8 1991 DIVISION OF OIL GAS & MINING

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

14. PERMIT NO.

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

12. COUNTY OR PARISH

13. STATE

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, 19 91, 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)

(8/90)

See Instructions on Reverse Side

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 -

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

REVIEW

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

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

BOND VERIFICATION (Fee wells only)

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

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

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

FILMING

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

FILING

1. Copies of all attachments to this form have been filed in each well file.

2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

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

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No. 14-20-603-2056
6. If Indian, Alottee or Tribe Name NAVAJO TRIBE
7. If Unit or CA, Agreement Designation ANETH UNIT
8. Well Name and Number ANETH UNIT H227
9. API Well No. 4303716317
10. Field and Pool, Exploratory Area DESERT CREEK
11. County or Parish, State SAN JUAN , UTAH

1. Type of Well: ☐ OIL WELL ☐ GAS WELL ☑ OTHER INJECTION WELL
2. Name of Operator TEXACO EXPLORATION & PRODUCTION, INC.
3. Address and Telephone No. 3300 N. Butler Ave., Suite 100 Farmington NM 87401 325-4397
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit Letter H : 1980 Feet From The NORTH Line and 630 Feet From The EAST Line Section 27 Township T40S Range R24E

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION	
☑ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☑ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Atlering Casing	☐ Conversion to Injection
	☑ OTHER: SIDETRACK	☐ Dispose Water

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

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

TEXACO E. & P., INC. PROPOSES TO SIDETRACK AND DRILL THREE HORIZONTAL SECTIONS IN THE DESERT CREEK FORMATION OF THE SUBJECT WELL.

THE PROJECTED BOTTOM HOLE LOCATIONS WILL BE AS FOLLOWS:

(LOWER). SOUTHEAST LATERAL #1: 3112.4' FNL & 514.3' FWL, SEC. 26, T40S, R24E(TVD=5578')
(UPPER). SOUTHEAST LATERAL #3: 3089.2' FNL & 490.9' FWL, SEC. 26, T40S, R24E(TVD=5723')
(UPPER). NORTHWEST LATERAL #2: 829.9' FNL & 1850.4' FEL, SEC. 27, T40S, R24E(TVD=5714')

PLEASE SEE ATTACHED PROCEDURE AND WELLBORE DIAGRAMS FOR DETAILS.

RECEIVED
NOV 28 1997
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.
SIGNATURE Rached Hindi TITLE Senior Engineer DATE 11/20/97
TYPE OR PRINT NAME Rached Hindi

(This space for Federal or State office use)
APPROVED John R. Baza TITLE Associate Director Utah DOGM DATE 12/4/97
CONDITIONS OF APPROVAL, IF ANY:

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

ANETH UNIT H-227
HORIZONTAL TRI-LATERAL REENTRY
(10/5/97)

The subject well is currently an injection well with 5-1/2" casing. The well is to be reentered and three short radius horizontal laterals are to be drilled in the Desert Creek formation using whipstocks. The existing perforations will not be squeezed. The laterals will be isolated by the whipstock packer to be set above the perforations. One lateral will be drilled to the northwest and two to the southeast.

WELL PREPARATION:

1) MIRU drilling rig.

2) Nipple up 3M BOPE.

3) TOH and lay down production tubing.

4) TIH with 4-3/4" bit on 2-7/8" work string and clean out to PBTD (5824').

Formation tops-	Ismay: 5530'	
	Desert Creek: 5693'	
Current perforations-	Desert Creek: 5696'- 5762'	
Production Casing-	5-1/2", 15.5#	Surface to 5881'

5) TOH.

SET WHIPSTOCK PACKER

6) If no Casing Collar Log exists, run GR-CCL from PBTD (5824') to 5000' to determine accurate location of casing collars. TIH with 4-3/4" bit, drill collars, casing scraper and drill pipe. Make several scraper passes across recommended whipstock packer setting depth of +/-5685' (11' above top perf). (Top of whipstock packer needs to be a minimum of 8' from nearest casing collar. If the CCL indicates a collar closer than this, move packer setting point ***down*** to obtain required spacing.)

7) Circulate hole clean with formation water. TOH with scraper and bit.

8) RIH with TIW gauge ring and wireline junk basket to PBTD. TOH.

9) Make up TIW wireline adaptor kit and SS-WS-BB packer for 5-1/2", 15.5# casing on Baker 20 setting tool. ***Packer is to be plugged with knock-out plug in order to isolate open perfs below depth at which it will be set.*** RIH with GR-CCL logging tool and packer on wireline. Tie-in GR-CCL log depths to depths of original open hole porosity log.

10) Set top of packer at +/- 5685'.

MILL WINDOW FOR FIRST LATERAL (SE Lower)

11) RIH with TIW orientation lug and gyro. Survey alignment slot in SS-WS-BB packer.

12) TOH. Check to see if indicator pins in lug are sheared to ensure that packer alignment slot was surveyed correctly. Correct drill pipe strap to permanent datum of packer depth.

13) Make up TIW orientation stinger to 4-1/2" O.D., 3° whipstock and orient to mill window for first lateral (SE Lower) from 5593' to 5600' KOP at 134.7° azimuth, as directed by Weatherford Enterra milling supervisor on location.

14) Attach 4-3/4"starting mill to whipstock with shear bolt. Use double lock nut or other method to ensure nut cannot back off.

15) TIH **slowly** with whipstock assembly. **DO NOT ROTATE STRING WHILE RUNNING IN HOLE.** At 5' to 10' above packer, work the string up and down to check drag.

16) Lower stinger into packer. Stinger alignment will occur automatically into packer slot.

17) Lower drill string and set down 5,000 to 10,000 lbs. to latch anchor assembly. To ensure anchor is latched, pull +/- 7,500 lb. above string weight plus drag.

18) Shear the bolt on the starting mill with downward motion. Mill 5-1/2", 15.5# casing with starting mill using light weights (1000-2000 lbs.) until approximately 18 to 24 inches of window has been cut. Circulate bottoms up and TOH.
WARNING: Do not mill more than 18 to 24 inches as the tapered nose of the starting mill will bottom out between the whipstock body and the casing. Any further milling will be on the whipstock, not the casing.

19) Pick up and TIH with 4 3/4" window mill, watermelon mill, and bit sub (as short as possible) . Slowly lower and ream back into the window. Continue milling window to completion (7' total length). Upon completion, ream assembly through window several times to clean the top and bottom sections. The window should be cleaned until the drill string can pass through it with no rotation and very little drag. TOH.

DRILL FIRST LATERAL (SE Lower):

(Rig up mudloggers at beginning of curve)

20) Pick up kick-off motor and test on surface. TIH with kick-off BHA as follows:

4 3/4" bit.
Kick-off motor (with 3° bent housing)
Float/ orientation sub.
1 jt 2 7/8" flexible monel collar.
Enough P-110, BTS tubing to reach from KOP to end of lateral.
Drill collars
2 7/8" AOH DP to surface.

21) TIH to KOP (5600'). Run gyro and orient motor to 134.7° azimuth.

22) Break circulation and establish off bottom pressure at operating flow rates. Slowly lower motor to bottom, adjusting toolface as necessary to compensate for reactive torque. Drill curve section to target depth of 5743' TVD for start of lateral. Planned build rate is 40°/100' and radius of 143'.

23) Circulate hole clean. TOH with curve motor.

24) TIH with lateral motor BHA.

25) Drill the horizontal lateral (1610') adjusting tool face as needed to the target. The end of the horizontal target depth is 5578' TVD. There is a window around the target line which the well path is to stay within. **(see attached well plan for well path and hardlines)**. While drilling the lateral section, run sweeps of 5 bbls. water, 3 bbls prehydrated gel (90+ viscosity), and 1 gallon polymer. If necessary, mud up with starch/polymer mud.

26) At TD circulate hole clean with water and TOH.

27) TIH with whipstock hook on drill string and engage whipstock. Retrieve whipstock and anchor.

Aneth Unit #H-227
Horizontal Tri-Lateral Reentry
San Juan County, Utah
Drilling Procedure

MILL WINDOW FOR SECOND LATERAL (NW Upper)

28) Make up TIW orientation stinger to second 4-1/2" O.D., 3° whipstock and orient to mill window for second lateral (NW Upper) from 5566' to 5573' KOP at 313.3° azimuth, as directed by Weatherford Enterra milling supervisor on location.

29) Repeat steps 14) through 19) above to mill window for second lateral.

DRILL SECOND LATERAL (NW Upper):

30) Repeat steps 20) through 27) above to drill second lateral as follows:

KOP	5573'
Lateral Direction	313.3°
Build Rate	45°/100'
Radius	128'
Beginning Target Depth	5701' TVD
Ending Target Depth	5714' TVD
Lateral Length	1677'

MILL WINDOW FOR THIRD LATERAL (SE Upper)

31) Make up TIW orientation stinger to third 4-1/2" O.D., 3° whipstock and orient to mill window for third lateral (SE Upper) from 5539' to 5546' KOP at 134.7° azimuth, as directed by Weatherford Enterra milling supervisor on location.

32) Repeat steps 14) through 19) above to mill window for third lateral.

DRILL THIRD LATERAL (SE Upper):

33) Repeat steps 20) through 27) above to drill third lateral as follows:

KOP	5546'
Lateral Direction	134.7°
Build Rate	36°/100'
Radius	158'
Beginning Target Depth	5704' TVD
Ending Target Depth	5723' TVD
Lateral Length	1577'

34) TOH with drill pipe. Set retrievable bridge plug in 5-1/2" casing. RDMORT. Subsequent completion program to be issued.

Aneth Unit #H-227
Horizontal Tri-Lateral Reentry
San Juan County, Utah
Drilling Procedure

Prepared by: L.A. Bogdanski

LAB/ cc Hardcopy: M.R. Marquez
L.A. Bogdanski
Drilling Foremen

cc E-Mail:

(Farmington OU)	(Aneth AT)
A.R. Davis	S.R. Meck
R. Hindi	S.D. Hall
B.A. Bradford	L.J. Amateis
E. Becenti	

7/18/97

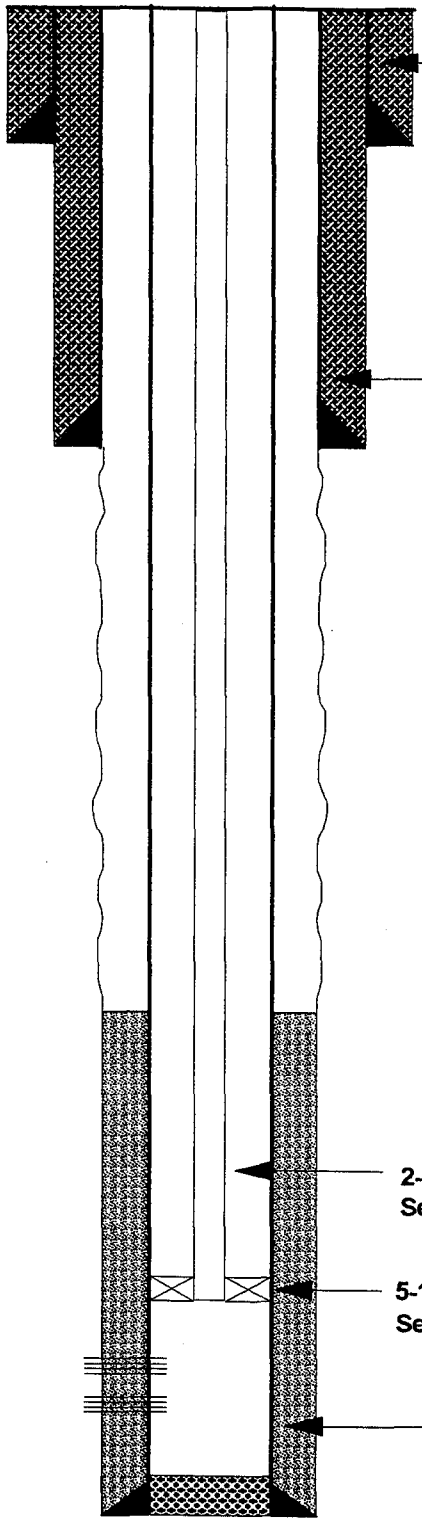
ANETH UNIT No. H227

CURRENT COMPLETION

LOCATION:
1980' FNL & 630' FEL
SE/NE, Sec. 27, T40S, R24E
San Juan County, Utah

ELEVATION: 4851' KB
4840' GR

SPUD DATE: 10/26/57
COMPL. DATE: 11/26/57
CONV. INJ. 2/02/62



13-3/8", 48# CSG
Set @ 49'
w/ 50 SXS CMT
CMT Circ.

9-5/8", 36# CSG
Set @ 1250'
w/ 700 SXS CMT
CMT Circ.

2-3/8", PC TBG
Set @ 5594'

5-1/2" Lynes Inflatable PKR
Set @ 5594'

5-1/2", 15.5# CSG
Set @ 5881'
w/ 500 SXS CMT

PRESENT PERFS:
5696'-5748'
5784'-96'
5785'-5820' (Reperfed)
5816'-24'
w/ 2 JSPF

PBTD @ 5824'
TD @ 5900'

11/24/97

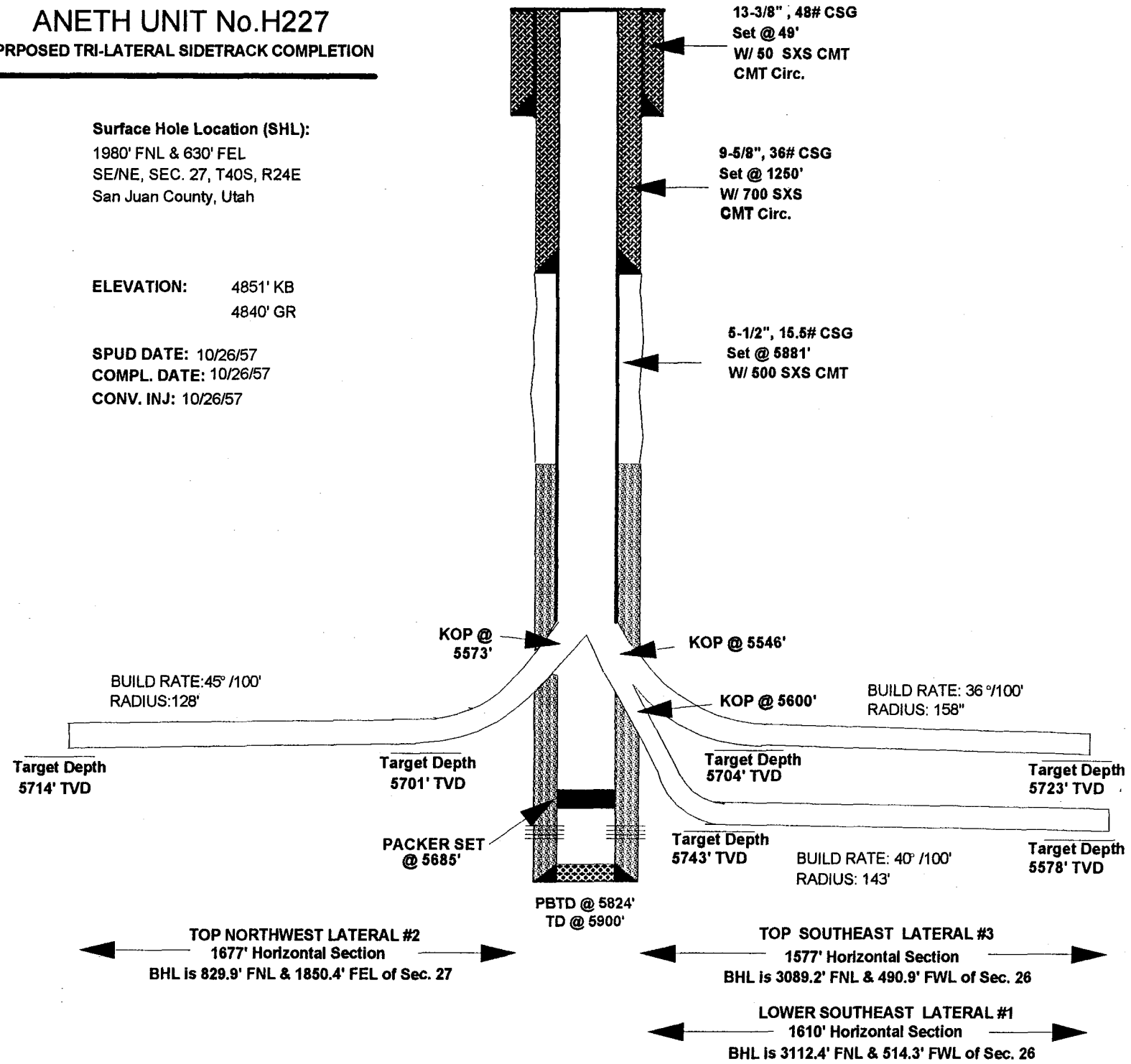
ANETH UNIT No.H227

PRPOSED TRI-LATERAL SIDETRACK COMPLETION

Surface Hole Location (SHL):
1980' FNL & 630' FEL
SE/NE, SEC. 27, T40S, R24E
San Juan County, Utah

ELEVATION: 4851' KB
4840' GR

SPUD DATE: 10/26/57
COMPL. DATE: 10/26/57
CONV. INJ: 10/26/57



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/28/97

API NO. ASSIGNED: 43-037-16317

WELL NAME: ANETH H227 (MULTI-LEG)
OPERATOR: TEXACO E & P ~~INC~~ (N7370)
CONTACT:

PROPOSED LOCATION:
SENE 27 - T40S - R24E
SURFACE: 1980-FNL-0630-FEL
BOTTOM: 1149-FNL-1133-FWL
SAN JUAN COUNTY
GREATER ANETH FIELD (365)

LEASE TYPE: IND
LEASE NUMBER: 14-20-603-2056
SURFACE OWNER:

PROPOSED FORMATION: DSCR

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

RECEIVED AND/OR REVIEWED:

✓ Plat
✓ Bond: Federal [✓] State [] Fee []
(No. ALREADY BONDED)
N Potash (Y/N)
N Oil Shale (Y/N) *190-5(B)
✓ Water Permit
(No. NAVAJO ALLOCATION)
N RDCC Review (Y/N)
(Date:)

N St/Fee Surf Agreement (Y/N)

LOCATION AND SITING:

✓ R649-2-3. Unit ANETH UNIT.

___ R649-3-2. General

___ R649-3-3. Exception

___ Drilling Unit
Board Cause No:
Date:

COMMENTS:

STIPULATIONS: (1) DIRECTIONAL DRILLING
(2) FEDERAL APPROVAL

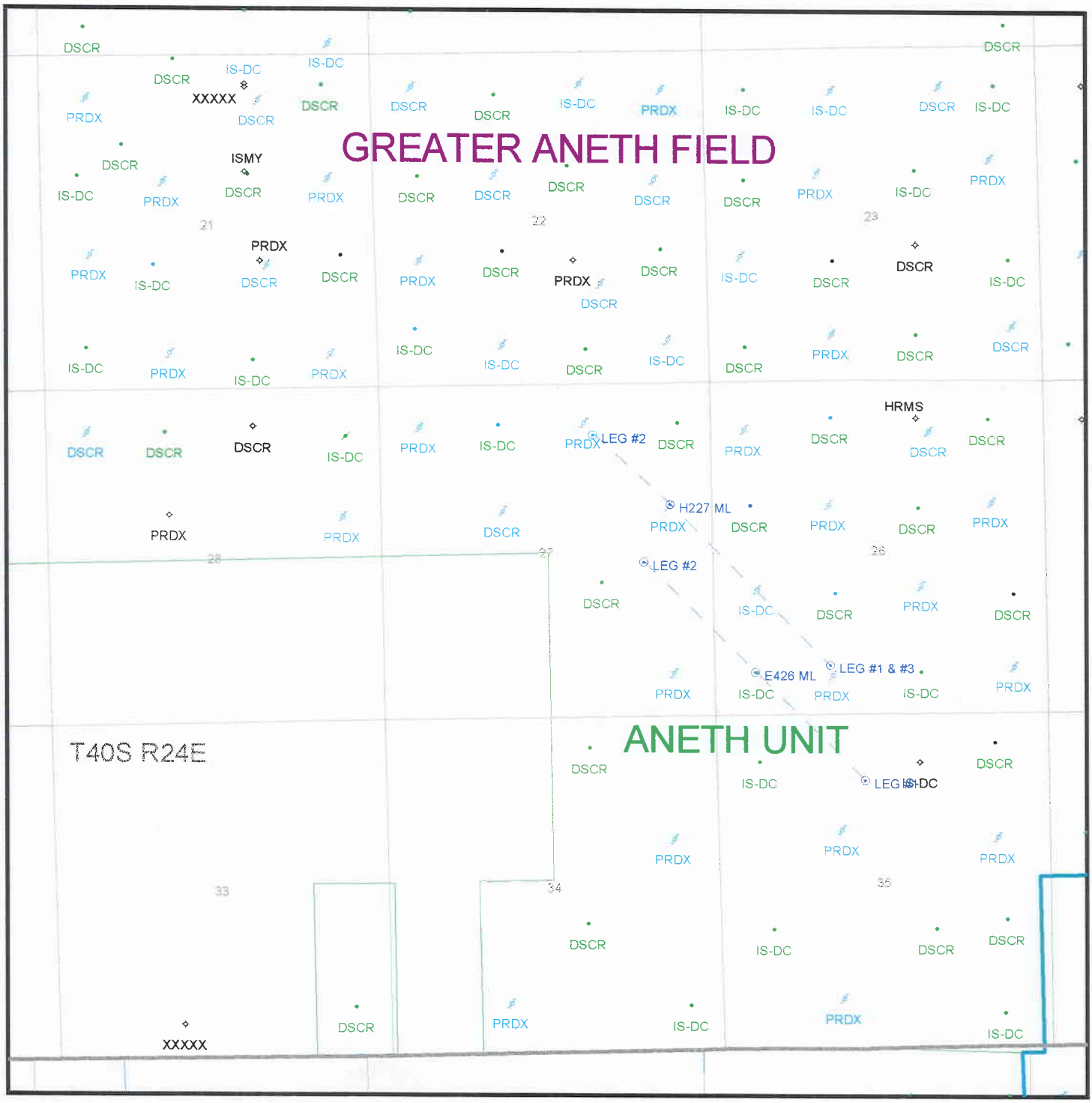
DIVISION OF OIL, GAS & MINING

OPERATOR: TEXACO EXPL & PROD (N5700)

FIELD: GREATER ANETH (365)

SEC. 26 & 27 , TWP. 40S, RNG. 24E,

COUNTY: SAN JUAN UAC: R649-2-3 ANDTH UNIT



DATE PREPARED:
23-APR-1998

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/28/97

API NO. ASSIGNED: 43-037-16317

WELL NAME: H227 (MULTI-LEG)
OPERATOR: TEXACO ESPL & PROD ~~(N7370)~~ N5700

PROPOSED LOCATION:
SENE 27 - T40S - R24E
SURFACE: 1980-FNL-0630-FEL
BOTTOM: , 3112-FNL-0514-FWL
SAN JUAN COUNTY
GREATER ANETH FIELD (365)

LEASE TYPE: IND
LEASE NUMBER: 14-20-603-2056

PROPOSED PRODUCING FORMATION: DSCR

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

RECEIVED AND/OR REVIEWED:

✓ Plat
✓ Bond: Federal [✓] State [] Fee []
(Number IN PLACE)
N Potash (Y/N)
N Oil shale (Y/N)
✓ Water permit
(Number NAVAJO ALLOTMENT)
N RDCC Review (Y/N)
(Date:)

LOCATION AND SITING:

✓ R649-2-3. Unit: ANETH UNIT
___ R649-3-2. General.
___ R649-3-3. Exception.
___ Drilling Unit.
Board Cause no: ___
Date: ___

COMMENTS: ___

STIPULATIONS: 1. Directional drilling

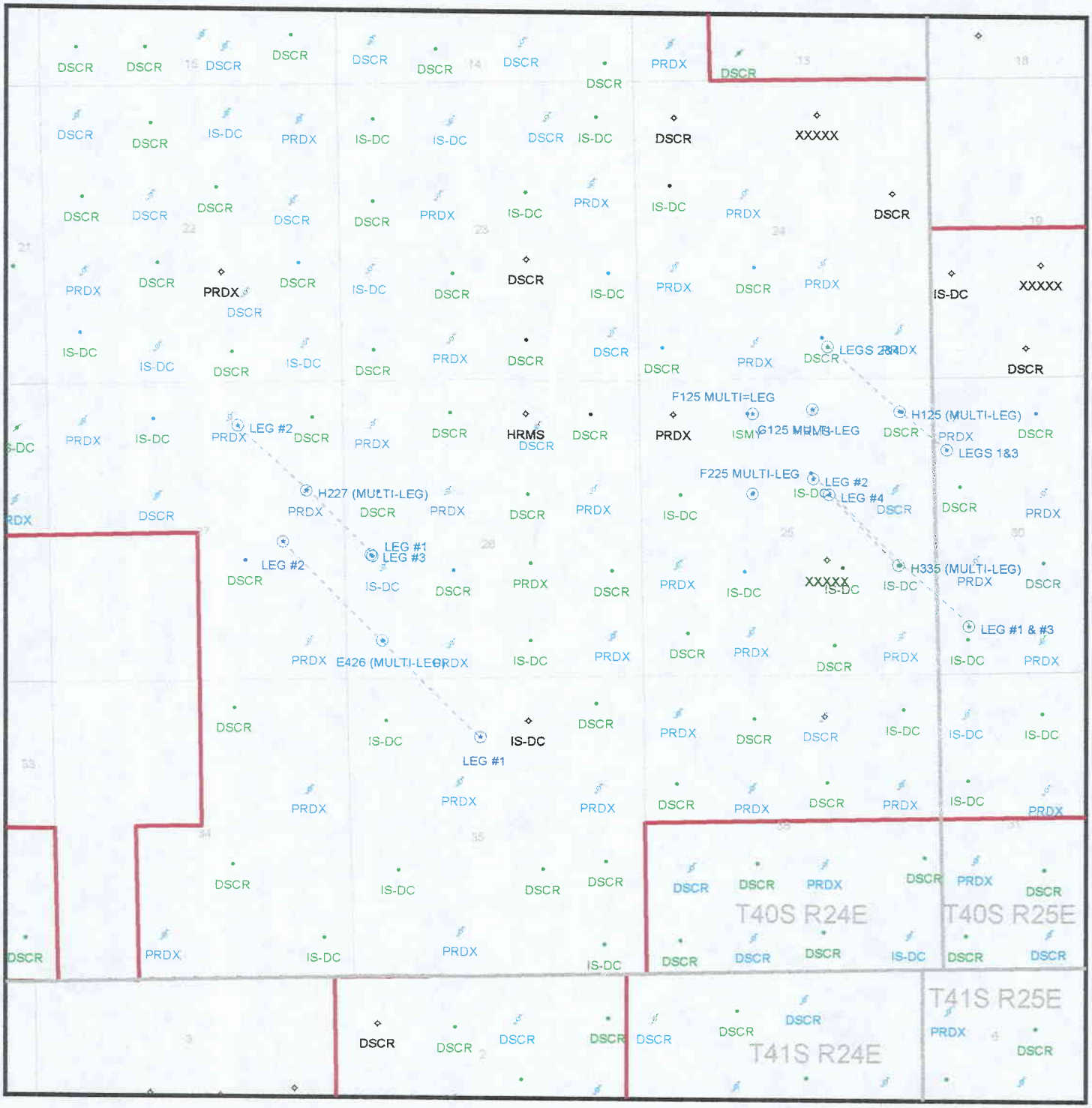
DIVISION OF OIL, GAS & MINING

OPERATOR: TEXACO EXPL & PROD (N7370)

FIELD: GREATER ANETH (365)

SEC. TWP. RNG.: SEC. 27 & 25, T40S, R24E

COUNTY: SAN JUAN UAC: R649-2-3 ANETH UINT



DATE PREPARED:
1-DEC-1997

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

December 4, 1997

Texaco Exploration & Production, Inc.
3300 North Butler Avenue, Suite 100
Farmington, New Mexico 87401

Re: Aneth Unit H227 Well (Re-entry), 1980' FNL, 630' FEL, SE NE, Sec. 27, T. 40 S., R. 24 E., San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to re-enter and drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-16317.

Sincerely,

John R. Baza
Associate Director

lwp
Enclosures
cc: San Juan County Assessor
Bureau of Land Management, Moab District Office

Operator: Texaco Exploration & Producing, Inc.

Well Name & Number: Aneth Unit H227 (Re-entry)

API Number: 43-037-16317

Lease: 14-20-603-2056

Location: SE NE **Sec.** 27 **T.** 40 S. **R.** 24 E.

Conditions of Approval

1. General
   Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements
   Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

   Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801)538-5334.

3. Reporting Requirements
   All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, submittal of a complete angular deviation and directional survey report is required.

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No. 14-20-603-2056
6. If Indian, Allottee or Tribe Name NAVAJO TRIBE
7. If Unit or CA, Agreement Designation ANETH UNIT
8. Well Name and Number ANETH UNIT H227
9. API Well No. 4303716317
10. Field and Pool, Exploratory Area DESERT CREEK
11. County or Parish, State SAN JUAN, UTAH

1. Type of Well: ☐ OIL WELL ☐ GAS WELL ☑ OTHER INJECTION WELL
2. Name of Operator TEXACO EXPLORATION & PRODUCTION, INC.
3. Address and Telephone No. 3300 N. Butler Ave., Suite 100 Farmington NM 87401 325-4397
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit Letter H : 1980 Feet From The NORTH Line and 630 Feet From The EAST Line Section 27 Township T40S Range R24E

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION	
☑ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☑ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☑ OTHER: SIDETRACK	☐ Dispose Water

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

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(UPPER). SOUTHEAST LATERAL #3: 3089.2' FNL & 490.9' FWL, SEC. 26, T40S, R24E(TVD=5723')

(UPPER). NORTHWEST LATERAL #2: 829.9' FNL & 1850.4' FEL, SEC. 27, T40S, R24E(TVD=5714')

PLEASE SEE ATTACHED PROCEDURE AND WELLBORE DIAGRAMS FOR DETA

97 NOV 26 PM 12:22

FARMINGTON AREA
ARD | LTC | HOL | JMY
RM | ✓ | | LJB
LNS | | | RDW
JR | | | BPH

DEC - 8 1997

MFR | | BCB | ✓
BAB | | CLS
BAC | | TLD
RFG | | FILE | ✓
RSD | | RETURN TO DATE

14. I hereby certify that the foregoing is true and correct.
SIGNATURE Rached Hindi TITLE Senior Engineer
TYPE OR PRINT NAME Rached Hindi

(This space for Federal or State office use)
APPROVED
CONDITIONS OF APPROVAL, IF ANY: TITLE Tim Lee DATE 12/4/97

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

ANETH UNIT H-227
HORIZONTAL TRI-LATERAL REENTRY
(10/5/97)

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WELL PREPARATION:

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2) Nipple up 3M BOPE.

3) TOH and lay down production tubing.

4) TIH with 4-3/4" bit on 2-7/8" work string and clean out to PBTD (5824').

Formation tops-	Ismay: 5530'	
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Current perforations-	Desert Creek: 5696'- 5762'	
Production Casing-	5-1/2", 15.5#	Surface to 5881'

5) TOH.

SET WHIPSTOCK PACKER

6) If no Casing Collar Log exists, run GR-CCL from PBTD (5824') to 5000' to determine accurate location of casing collars. TIH with 4-3/4" bit, drill collars, casing scraper and drill pipe. Make several scraper passes across recommended whipstock packer setting depth of +/-5685' (11' above top perf). (Top of whipstock packer needs to be a minimum of 8' from nearest casing collar. If the CCL indicates a collar closer than this, move packer setting point *down* to obtain required spacing.)

7) Circulate hole clean with formation water. TOH with scraper and bit.

8) RIH with TIW gauge ring and wireline junk basket to PBTD. TOH.

9) Make up TIW wireline adaptor kit and SS-WS-BB packer for 5-1/2", 15.5# casing on Baker 20 setting tool. ***Packer is to be plugged with knock-out plug in order to isolate open perfs below depth at which it will be set.*** RIH with GR-CCL logging tool and packer on wireline. Tie-in GR-CCL log depths to depths of original open hole porosity log.

10) Set top of packer at +/- 5685'.

MILL WINDOW FOR FIRST LATERAL (SE Lower)

11) RIH with TIW orientation lug and gyro. Survey alignment slot in SS-WS-BB packer.

12) TOH. Check to see if indicator pins in lug are sheared to ensure that packer alignment slot was surveyed correctly. Correct drill pipe strap to permanent datum of packer depth.

13) Make up TIW orientation stinger to 4-1/2" O.D., 3° whipstock and orient to mill window for first lateral (SE Lower) from 5593' to 5600' KOP at 134.7° azimuth, as directed by Weatherford Enterra milling supervisor on location.

14) Attach 4-3/4"starting mill to whipstock with shear bolt. Use double lock nut or other method to ensure nut cannot back off.

15) TIH slowly with whipstock assembly. **DO NOT ROTATE STRING WHILE RUNNING IN HOLE.** At 5' to 10' above packer, work the string up and down to check drag.

16) Lower stinger into packer. Stinger alignment will occur automatically into packer slot.

17) Lower drill string and set down 5,000 to 10,000 lbs. to latch anchor assembly. To ensure anchor is latched, pull +/- 7,500 lb. above string weight plus drag.

18) Shear the bolt on the starting mill with downward motion. Mill 5-1/2", 15.5# casing with starting mill using light weights (1000-2000 lbs.) until approximately 18 to 24 inches of window has been cut. Circulate bottoms up and TOH.
WARNING: Do not mill more than 18 to 24 inches as the tapered nose of the starting mill will bottom out between the whipstock body and the casing. Any further milling will be on the whipstock, not the casing.

19) Pick up and TIH with 4 3/4" window mill, watermelon mill, and bit sub (as short as possible) . Slowly lower and ream back into the window. Continue milling window to completion (7' total length). Upon completion, ream assembly through window several times to clean the top and bottom sections. The window should be cleaned until the drill string can pass through it with no rotation and very little drag. TOH.

DRILL FIRST LATERAL (SE Lower):

(Rig up mudloggers at beginning of curve)

20) Pick up kick-off motor and test on surface. TIH with kick-off BHA as follows:

4 3/4" bit.
Kick-off motor (with 3° bent housing)
Float/ orientation sub.
1 jt 2 7/8" flexible monel collar.
Enough P-110, BTS tubing to reach from KOP to end of lateral.
Drill collars
2 7/8" AOH DP to surface.

21) TIH to KOP (5600'). Run gyro and orient motor to 134.7° azimuth.

22) Break circulation and establish off bottom pressure at operating flow rates. Slowly lower motor to bottom, adjusting toolface as necessary to compensate for reactive torque. Drill curve section to target depth of 5743' TVD for start of lateral. Planned build rate is 40°/100' and radius of 143'.

23) Circulate hole clean. TOH with curve motor.

24) TIH with lateral motor BHA.

25) Drill the horizontal lateral (1610') adjusting tool face as needed to the target. The end of the horizontal target depth is 5578' TVD. There is a window around the target line which the well path is to stay within. (see **attached well plan for well path and hardlines**). While drilling the lateral section, run sweeps of 5 bbls. water, 3 bbls prehydrated gel (90+ viscosity), and 1 gallon polymer. If necessary, mud up with starch polymer mud.

26) At TD circulate hole clean with water and TOH.

27) TIH with whipstock hook on drill string and engage whipstock. Retrieve whipstock and anchor.

Aneth Unit #H-227
Horizontal Tri-Lateral Reentry
San Juan County, Utah
Drilling Procedure

MILL WINDOW FOR SECOND LATERAL (NW Upper)

28) Make up TIW orientation stinger to second 4-1/2" O.D., 3° whipstock and orient to mill window for second lateral (NW Upper) from 5566' to 5573' KOP at 313.3° azimuth, as directed by Weatherford Enterra milling supervisor on location.

29) Repeat steps 14) through 19) above to mill window for second lateral.

DRILL SECOND LATERAL (NW Upper):

30) Repeat steps 20) through 27) above to drill second lateral as follows:

KOP	5573'
Lateral Direction	313.3°
Build Rate	45°/100'
Radius	128'
Beginning Target Depth	5701' TVD
Ending Target Depth	5714' TVD
Lateral Length	1677'

MILL WINDOW FOR THIRD LATERAL (SE Upper)

31) Make up TIW orientation stinger to third 4-1/2" O.D., 3° whipstock and orient to mill window for third lateral (SE Upper) from 5539' to 5546' KOP at 134.7° azimuth, as directed by Weatherford Enterra milling supervisor on location.

32) Repeat steps 14) through 19) above to mill window for third lateral.

DRILL THIRD LATERAL (SE Upper):

33) Repeat steps 20) through 27) above to drill third lateral as follows:

KOP	5546'
Lateral Direction	134.7°
Build Rate	36°/100'
Radius	158'
Beginning Target Depth	5704' TVD
Ending Target Depth	5723' TVD
Lateral Length	1577'

34) TOH with drill pipe. Set retrievable bridge plug in 5-1/2" casing. RDMORT. Subsequent completion program to be issued.

Aneth Unit #H-227
Horizontal Tri-Lateral Reentry
San Juan County, Utah
Drilling Procedure

Prepared by: L.A. Bogdanski

LAB/ cc Hardcopy: M.R. Marquez
L.A. Bogdanski
Drilling Foremen

cc E-Mail:

(Farmington OU)	(Aneth AT)
A.R. Davis	S.R. Meck
R. Hindi	S.D. Hall
B.A. Bradford	L.J. Amateis
E. Becenti	

BLM CONDITIONS OF APPROVAL

Operator Texaco Exploration & Prod. Inc. Well Name/No. H227 Aneth Unit

Legal Location 1980' FNL/ 630' FEL Sec. 27 , T. 40 S. , R. 24 E.

Lease Number 14-20-603-2056 Field Inspection Date n/a

The following Stipulations will apply to this well unless a particular Surface Managing Agency or private surface owner has supplied to BLM and operator a contradictory environmental stipulation. The failure of operator to comply with these requirements may result in assessments or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on location during construction, drilling and reclamation activity.

An agreement between operator and fee land owner will take precedence over BLM surface stipulations unless (In reference to 43 CFR Part 3160) 1) BLM determines that operator's actions will affect adjacent Federal or Indian surface, or 2) operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

STANDARD STIPULATIONS: **All surface areas disturbed during workover activities and not in use for production activities, will be reseeded the first July-September period after well has been put back into production. This should occur in the first 12 months after completion of workover activities.**

SPECIAL STIPULATIONS:

1. **Pits will be fenced during work-over operation.**
2. **Pits will be lined with an impervious material at least 8 mils thick.**
3. **All disturbance will be kept on existing pad.**
4. **All pits will be pulled and closed immediately upon completion of the work-over activities.**

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No. 14-20-603-2056

6. If Indian, Alottee or Tribe Name NAVAJO TRIBE

7. If Unit or CA, Agreement Designation ANETH UNIT

1. Type of Well: ☐ OIL WELL ☐ GAS WELL ☑ OTHER INJECTION WELL

8. Well Name and Number ANETH UNIT H227

2. Name of Operator TEXACO EXPLORATION & PRODUCTION, INC.

3. Address and Telephone No. 3300 N. Butler Ave., Suite 100 Farmington NM 87401 325-4397

9. API Well No. 4303716317

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

Unit Letter H : 1980 Feet From The NORTH Line and 630 Feet From The EAST Line Section 27 Township T40S Range R24E

10. Field and Pool, Exploratory Area DESERT CREEK

11. County or Parish, State SAN JUAN , UTAH

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION	
☑ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☑ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☑ OTHER: SIDETRACK	☐ Dispose Water

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

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

***** THIS SUNDRY AMENDS THE PREVIOUS APPROVED INTENT SUNDRY AS FOLLOWS: *****

TEXACO E. & P., INC. PROPOSES TO SIDETRACK AND DRILL THREE HORIZONTAL SECTIONS IN THE DESERT CREEK FORMATION OF THE SUBJECT WELL.

THE PROJECTED BOTTOM HOLE LOCATIONS WILL BE AS FOLLOWS:

(LOWER). SOUTHEAST LATERAL #1: 4450' FNL & 1866' FWL, SEC. 26, T40S, R24E(TVD=5779') 1358 569 6550006 806 FSL 26 T40S
(UPPER). SOUTHEAST LATERAL #3: 4450' FNL & 1866' FWL, SEC. 26, T40S, R24E(TVD=5735') 4126625.7 1843 FWL R24E

(UPPER). NORTHWEST LATERAL #2: 830' FNL & 1850' FEL, SEC. 27, T40S, R24E(TVD=5714') NW NW
263 564 6538860.4 4127732.0

PLEASE SEE ATTACHED PROCEDURE AND WELLBORE DIAGRAMS FOR DETAILS.

Federal Approval of this Action is Necessary

RECEIVED
MAR 12 1998
DIV. OF OIL, GAS & MINING

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

SIGNATURE Rached Hindi TITLE Senior Engineer DATE 3/9/98

TYPE OR PRINT NAME Rached Hindi

(This space for Federal or State office use)

APPROVED BRADLEY G. HILL
CONDITIONS OF APPROVAL, IF ANY: TITLE RECLAMATION SPECIALIST III DATE 4/27/98

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

ANETH UNIT H-227
HORIZONTAL TRI-LATERAL REENTRY
(10/5/97)

The subject well is currently an injection well with 5-1/2" casing. The well is to be reentered and three short radius horizontal laterals are to be drilled in the Desert Creek formation using whipstocks. The existing perforations will not be squeezed. The laterals will be isolated by the whipstock packer to be set above the perforations. One lateral will be drilled to the northwest and two to the southeast.

WELL PREPARATION:

1) MIRU drilling rig.

2) Nipple up 3M BOPE.

3) TOH and lay down production tubing.

4) TIH with 4-3/4" bit on 2-7/8" work string and clean out to PBTD (5824').

Formation tops-	Ismay: 5530' Desert Creek: 5693'	
Current perforations-	Desert Creek: 5696'- 5762'	
Production Casing-	5-1/2", 15.5#	Surface to 5881'

5) TOH.

SET WHIPSTOCK PACKER

6) If no Casing Collar Log exists, run GR-CCL from PBTD (5824') to 5000' to determine accurate location of casing collars. TIH with 4-3/4" bit, drill collars, casing scraper and drill pipe. Make several scraper passes across recommended whipstock packer setting depth of +/-5685' (11' above top perf). (Top of whipstock packer needs to be a minimum of 8' from nearest casing collar. If the CCL indicates a collar closer than this, move packer setting point ***down*** to obtain required spacing.)

7) Circulate hole clean with formation water. TOH with scraper and bit.

8) RIH with TIW gauge ring and wireline junk basket to PBTD. TOH.

Aneth Unit #H-227
Horizontal Tri-Lateral Reentry
San Juan County, Utah
Drilling Procedure

9) Make up TIW wireline adaptor kit and SS-WS-BB packer for 5-1/2", 15.5# casing on Baker 20 setting tool. ***Packer is to be plugged with knock-out plug in order to isolate open perfs below depth at which it will be set.*** RIH with GR-CCL logging tool and packer on wireline. Tie-in GR-CCL log depths to depths of original open hole porosity log.

10) Set top of packer at +/- ~~5685~~ 5549'.

MILL WINDOW FOR FIRST LATERAL (SE Lower)

11) RIH with TIW orientation lug and gyro. Survey alignment slot in SS-WS-BB packer.

12) TOH. Check to see if indicator pins in lug are sheared to ensure that packer alignment slot was surveyed correctly. Correct drill pipe strap to permanent datum of packer depth.

13) Make up TIW orientation stinger to 4-1/2" O.D., 3° whipstock and orient to mill window for first lateral (SE Lower) from ~~5593~~ 5531' to ~~5600~~ 5538' KOP at 134.7° azimuth, as directed by Weatherford Enterra milling supervisor on location.

14) Attach 4-3/4"starting mill to whipstock with shear bolt. Use double lock nut or other method to ensure nut cannot back off.

15) TIH **slowly** with whipstock assembly. **DO NOT ROTATE STRING WHILE RUNNING IN HOLE.** At 5' to 10' above packer, work the string up and down to check drag.

16) Lower stinger into packer. Stinger alignment will occur automatically into packer slot.

17) Lower drill string and set down 5,000 to 10,000 lbs. to latch anchor assembly. To ensure anchor is latched, pull +/- 7,500 lb. above string weight plus drag.

18) Shear the bolt on the starting mill with downward motion. Mill 5-1/2", 15.5# casing with starting mill using light weights (1000-2000 lbs.) until approximately 18 to 24 inches of window has been cut. Circulate bottoms up and TOH.
WARNING: Do not mill more than 18 to 24 inches as the tapered nose of the starting mill will bottom out between the whipstock body and the casing. Any further milling will be on the whipstock, not the casing.

Aneth Unit #H-227
Horizontal Tri-Lateral Reentry
San Juan County, Utah
Drilling Procedure

19) Pick up and TIH with 4 3/4" window mill, watermelon mill, and bit sub (as short as possible) . Slowly lower and ream back into the window. Continue milling window to completion (7' total length). Upon completion, ream assembly through window several times to clean the top and bottom sections. The window should be cleaned until the drill string can pass through it with no rotation and very little drag. TOH.

DRILL FIRST LATERAL (SE Lower):

(Rig up mudloggers at beginning of curve)

20) Pick up kick-off motor and test on surface. TIH with kick-off BHA as follows:

4 3/4" bit.
Kick-off motor (with 3° bent housing)
Float/ orientation sub.
1 jt 2 7/8" flexible monel collar.
Enough P-110, BTS tubing to reach from KOP to end of lateral.
Drill collars
2 7/8" AOH DP to surface.

21) TIH to KOP (5600'). Run gyro and orient motor to 134.7° azimuth.

22) Break circulation and establish off bottom pressure at operating flow rates. Slowly lower motor to bottom, adjusting toolface as necessary to compensate for reactive torque. Drill curve section to target depth of ~~5743'~~ 5749 TVD for start of lateral. Planned build rate is 40°/100' and radius of 143'.

23) Circulate hole clean. TOH with curve motor.

24) TIH with lateral motor BHA.

25) Drill the horizontal lateral (~~1610'~~ 3512') adjusting tool face as needed to the target. The end of the horizontal target depth is ~~5578'~~ 5779 TVD. There is a window around the target line which the well path is to stay within. (**see attached well plan for well path and hardlines**). While drilling the lateral section, run sweeps of 5 bbls. water, 3 bbls prehydrated gel (90+ viscosity), and 1 gallon polymer. If necessary, mud up with starch/polymer mud.

26) At TD circulate hole clean with water and TOH.

27) TIH with whipstock hook on drill string and engage whipstock. Retrieve whipstock and anchor.

Aneth Unit #H-227
Horizontal Tri-Lateral Reentry
San Juan County, Utah
Drilling Procedure

MILL WINDOW FOR SECOND LATERAL (NW Upper)

28) Make up TIW orientation stinger to second 4-1/2" O.D., 3° whipstock and orient to mill window for second lateral (NW Upper) from ~~5566'~~ 5540 to ~~5573'~~ 5547' KOP at 313.3° azimuth, as directed by Weatherford Enterra milling supervisor on location.

29) Repeat steps 14) through 19) above to mill window for second lateral.

DRILL SECOND LATERAL (NW Upper):

30) Repeat steps 20) through 27) above to drill second lateral as follows:

KOP	~~5573'~~ 5547
Lateral Direction	313.3°
Build Rate	45°/100'
Radius	128'
Beginning Target Depth	5701' TVD
Ending Target Depth	5714' TVD
Lateral Length	1677'

MILL WINDOW FOR THIRD LATERAL (SE Upper)

31) Make up TIW orientation stinger to third 4-1/2" O.D., 3° whipstock and orient to mill window for third lateral (SE Upper) from ~~5539'~~ 5531 to ~~5546'~~ 5538' KOP at 134.7° azimuth, as directed by Weatherford Enterra milling supervisor on location.

32) Repeat steps 14) through 19) above to mill window for third lateral.

DRILL THIRD LATERAL (SE Upper):

33) Repeat steps 20) through 27) above to drill third lateral as follows:

KOP	~~5546'~~ 5538
Lateral Direction	134.7°
Build Rate	36°/100'
Radius	158'
Beginning Target Depth	~~5704'~~ TVD 5701
Ending Target Depth	~~5723'~~ TVD 5735
Lateral Length	~~1577'~~ 3512

34) TOH with drill pipe. Set retrievable bridge plug in 5-1/2" casing. RDMORT. Subsequent completion program to be issued.

Aneth Unit #H-227
Horizontal Tri-Lateral Reentry
San Juan County, Utah
Drilling Procedure

Prepared by: L.A. Bogdanski

LAB/ cc Hardcopy: M.R. Marquez
L.A. Bogdanski
Drilling Foremen

cc E-Mail:

(Farmington OU)	(Aneth AT)
A.R. Davis	S.R. Meck
R. Hindi	S.D. Hall
B.A. Bradford	L.J. Amateis
E. Becenti	

ANETH UNIT No.H227

PROPOSED TRI-LATERAL SIDETRACK COMPLETION

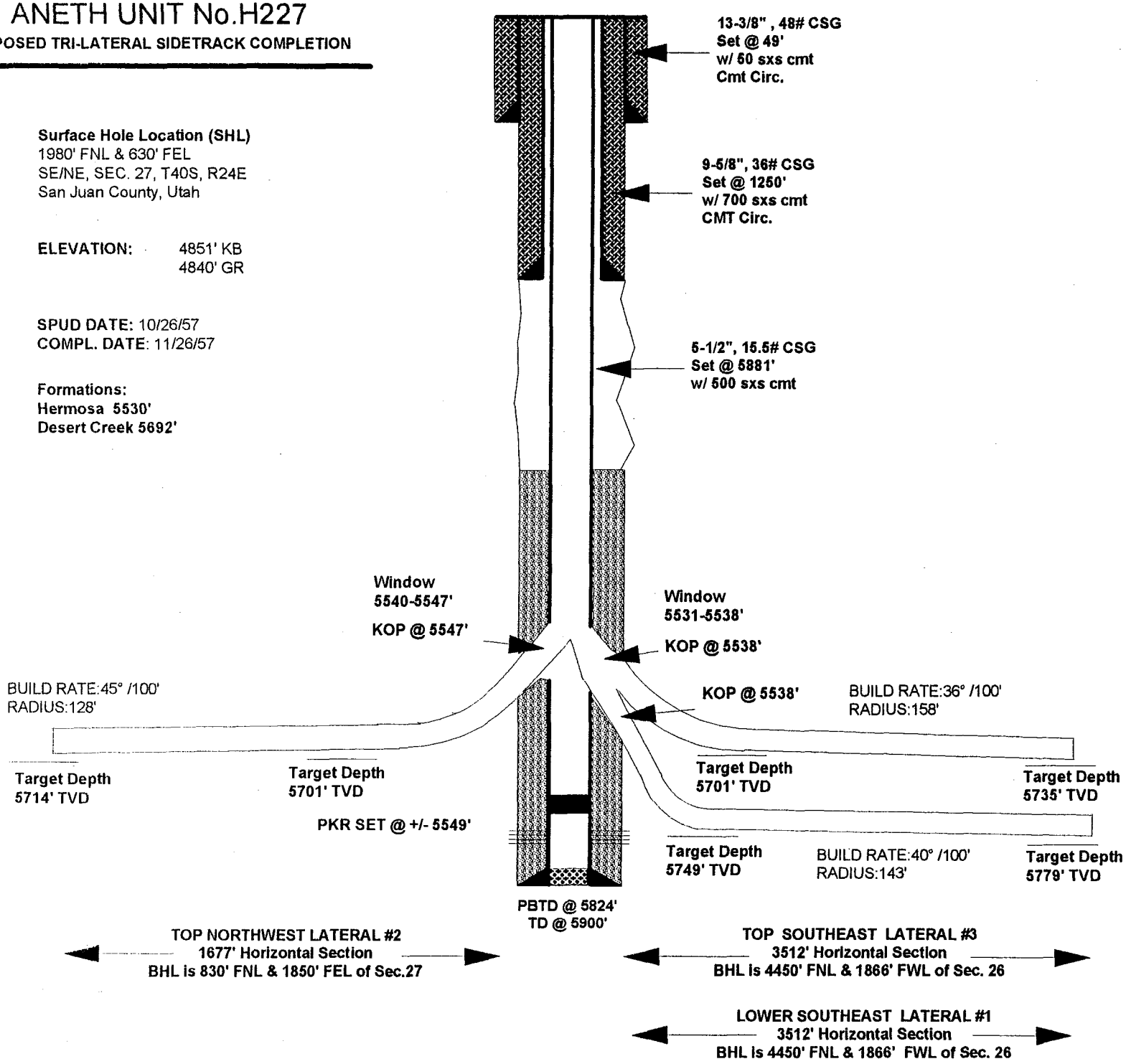
3/3/98

Surface Hole Location (SHL)
1980' FNL & 630' FEL
SE/NE, SEC. 27, T40S, R24E
San Juan County, Utah

ELEVATION: 4851' KB
4840' GR

SPUD DATE: 10/26/57
COMPL. DATE: 11/26/57

Formations:
Hermosa 5530'
Desert Creek 5692'



04/09/98 D E T A I L W E L L D A T A menu: opt 00

api num:	4303716317	prod zone:	sec	twnshp	range	qr-qr
entity:	99999 : DRILLING FILES		27	40.0 S	24.0 E	SENE

well name: ANETH UNIT H227 (SDTRK)
operator: N5700 : TEXACO E & P INC meridian: S
field: 365 : GREATER ANETH
confidential flag: confidential expires: alt addr flag:

* * * application to drill, deepen, or plug back * * *

lease number: INDIAN lease type: 2 well type: OT
surface loc: 1980 FNL 0630 FEL unit name: ANETH
prod zone loc: depth: proposed zone: DSCR
elevation: 4840' GR apd date: 971204 auth code: R649-2-3
* * completion information * * date recd: la/pa date:
spud date: compl date: total depth:
producing intervals:
bottom hole: first prod: well status: DRL
24hr oil: 24hr gas: 24hr water: gas/oil ratio:
* * well comments: directionl: H api gravity:
(14-20-603-2056):971219 APPRV SDTRK;3 HORIZ LATS;SEE PRDX PZ:

opt: 21 api: 4303716317 zone: date(yymm): enty acct: N9890

04/09/98 D E T A I L W E L L D A T A menu: opt 00

api num:	4303716317	prod zone: PRDX	sec	twnshp	range	qr-qr
entity:	99990 : NO PROD/SERVICE WELL		27	40.0 S	24.0 E	SENE

well name: ANETH 27-D2 (ANETH H-227)
operator: N5700 : TEXACO E & P INC meridian: S
field: 365 : GREATER ANETH
confidential flag: confidential expires: alt addr flag:

* * * application to drill, deepen, or plug back * * *

lease number:	INDIAN	lease type:	2	well type:	OW
surface loc:	1980 FNL 0630 FEL	unit name:			
prod zone loc:	1980 FNL 0630 FEL	depth:	6000	proposed zone:	PRDX
elevation:	4840' GR	apd date:	571025	auth code:	
* * completion information * *		date recd:		la/pa date:	
spud date:	571026	compl date:	571126	total depth:	5,900'
producing intervals: 5532-5900'					
bottom hole:	1980 FNL 0630 FEL	first prod:	580104	well status:	WIW
24hr oil: 508	24hr gas:	24hr water:		gas/oil ratio:	
* * well comments:		directionl:		api gravity:	35.00

14-20-603-2056:620329 OPER FR THE PURE OIL CO:620401 COMMENCED WIW:910611 OPER FR N0980 EFF 1-1-91(MERGER):971219 APPRV SDTRK;3 HORIZ LATS;SEE OTHER SCREEN:

opt: 21 api: 4303716317 zone: date(yymm): enty acct: N9890

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

April 27, 1998

Texaco Exploration & Production, Inc.
3300 North Butler Avenue, Suite 100
Farmington, New Mexico 87401

Re: Aneth Unit H227 Well, 1980' FNL, 630' FEL, SE NE, Sec. 27, T. 40 S., R. 24 E., San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-16317.

Sincerely,

John R. Baza
Associate Director

lwp
Enclosures
cc: San Juan County Assessor
Bureau of Land Management, Moab District Office

Operator: Texaco Exploration & Production, Inc.

Well Name & Number: Aneth Unit H227

API Number: 43-037-16317

Lease: 14-20-603-2056

Location: SE NE **Sec.** 27 **T.** 40 S. **R.** 24 E.

Conditions of Approval

1. General
   Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements
   Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

   Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801) 538-5338 or John R. Baza at (801)538-5334.

3. Reporting Requirements
   All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Utah Admin. R.649-3-11, Directional Drilling, submittal of a complete angular deviation and directional drilling survey report is required.

5. State approval of this well does not supercede the required federal approval which must be obtained prior to drilling.

Form 3160-4
(October 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0137
Expires: December 31, 1991

SUBMIT ORIGINAL WITH 5 COPIES

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. Type of Well: OIL WELL ☐ GAS WELL ☐ DRY ☑ OTHER INJECTION WELL

1b. Type of Completion: NEW WELL ☐ WORK OVER ☑ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

2. Name of Operator: TEXACO EXPLORATION & PRODUCTION, INC.

3. Address and Telephone No.: 3300 N. Butler Ave., Suite 100 Farmington NM 87401 325-4397

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At Surface
Unit Letter H : 1980 Feet From The NORTH Line and 630 Feet From The EAST Line
At proposed prod. zone

At Total Depth

5. Lease Designation and Serial No.: 14-20-603-2056

6. If Indian, Alottee or Tribe Name: NAVAJO TRIBE

7. If Unit or CA, Agreement Designation: ANETH UNIT

8. Well Name and Number: ANETH UNIT H227

9. API Well No.: 4303716317

10. Field and Pool, Exploratory Area: DESERT CREEK

11. SEC., T., R., M., or BLK. and Survey or Area: Sec. 27, Township T40S, Range R24E

12. County or Parish: SAN JUAN

13. State: UTAH

14. Permit No. | Date Issued

15. Date Spudded: 10/26/57 3·3·98

16. Date T.D. Reached

17. Date Compl. (Ready to Prod.): 11/26/57 4·16·98

18. Elevations (Show whether DF,RT, GR, etc.): 4840 GR

19. Elev. Casinhead

20. Total Depth, MD & TVD: 5900

21. Plug Back T.D., MD & TVD

22. If Multiple Compl., How Many*

23. Intervals Drilled By --> Rotary Tools | CableTools

24. Producing Interval(s), Of This Completion – Top, Bottom, Name (MD and TVD)*
3 HORIZONTAL LATERALS (SEE ATTACHED SUNDRY)

25. Was Directional Survey Made: NO

26. Type Electric and Other Logs Run: PRDX

27. Was Well Cored: NO

28. CASING RECORD (Report all Strings set in well)

CASING SIZE & GRADE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
13-3/8"	48#	49'		50 SXS	
9-5/8"	36#	1250'		700 SXS	
5-1/2"	15.5#	5881'		500 SXS	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

31. Perforation record (interval, size, and number)
3 HORIZONTAL LATERALS (SEE ATTACHED SUNDRY)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	SEE ATTACHED SUNDRY

33. PRODUCTION

Date First Production | Production Method (Flowing, gas lift, pumping - size and type pump) | Well Status (Prod. or Shut-in)

Date of Test	Hours tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.)

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By

35. List of Attachments

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

SIGNATURE Rached Hindi TITLE Senior Engineer DATE 4/28/98

TYPE OR PRINT NAME Rached Hindi

RECEIVED
MAY 01 1998
DIV. OF OIL, GAS & MINING

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents therof; cored intervals; and all drill-stem, tests including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS,ETC.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
HERMOSA	5530'	
DESERT CREEK	5692'	

MAY 1 1 1995
DIVISION OF OIL, GAS & MINING

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No. 14-20-603-2056
6. If Indian, Alottee or Tribe Name NAVAJO TRIBE
7. If Unit or CA, Agreement Designation ANETH UNIT
8. Well Name and Number ANETH UNIT H227
9. API Well No. 4303716317
10. Field and Pool, Exploratory Area DESERT CREEK
11. County or Parish, State SAN JUAN , UTAH

1. Type of Well: ☐ OIL WELL ☐ GAS WELL ☑ OTHER INJECTION WELL
2. Name of Operator TEXACO EXPLORATION & PRODUCTION, INC.
3. Address and Telephone No. 3300 N. Butler Ave., Suite 100 Farmington NM 87401 325-4397
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit Letter H : 1980 Feet From The NORTH Line and 630 Feet From The EAST Line Section 27 Township T40S Range R24E

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☑ Subsequent Report	☑ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Atlering Casing	☐ Conversion to Injection
	☑ OTHER: SIDETRACK	☐ Dispose Water

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

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

TEXACO E. & P., INC. HAS COMPLETED THE SIDETRACK AND DRILLING OF THREE HORIZONTAL SECTIONS IN THE DESERT CREEK FORMATION OF THE SUBJECT WELL.

3/3/98 MIRU, POH W/ TBG & PKR., RIH W/ TIW PKR, SET @ 5549'
3/6 - 3/12/98 MILLED WINDOWS: LEG #1 5540-5547', LEG #2&3 5531-5538'

BOTTOM HOLE LOCATIONS AS FOLLOWS:

(LOWER). SOUTHEAST LATERAL #2: 4330' FNL & 1981' FWL, SEC. 26, T40S, R24E(TVD=5744', MD=9242') DISPLACEMENT 3513'
(UPPER). SOUTHEAST LATERAL #3: 4331' FNL & 1985' FWL, SEC. 26, T40S, R24E(TVD=5779', MD=9262') DISPLACEMENT 3516'

(UPPER). NORTHWEST LATERAL #1: 833' FNL & 1857' FEL, SEC. 27, T40S, R24E(TVD=5716', MD=7220') DISPLACEMENT 1680'

4/8 - 4/14/98 ACIDIZED LEG #1 W/ 5333 GALS 20% HCL & 22854 GALS 20% SXE, LEG #2 W/ 13136 GALS 20% HCL & 56296 GALS 20% SXE, LEG #3 W/ 8385 GALS 20% HCL & 35933 GALS 20% SXE

4/16/98 RIH W/ 2-7/8" TBG & PKR, SET PKR @ 5467', TESTED BACK SIDE TO 1000 PSI, HELD OK
4/17/98 READY TO RETURN WELL TO INJECTION

RECEIVED
MAY 01 1998
DIV. OF OIL, GAS & MINING

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

SIGNATURE Rached Hindi TITLE Senior Engineer DATE 4/27/98

TYPE OR PRINT NAME Rached Hindi

(This space for Federal or State office use)

APPROVED
CONDITIONS OF APPROVAL, IF ANY: TITLE DATE

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

05/21/98
RJK

DRILLED FOOTAGE CALCULATION FOR DIRECTIONAL AND HORIZONTAL WELLS

Company: **Texaco E&P, Inc.**
Well Name: **Aneth Unit H227**
API Well #: **43-037-16317**

First leg description:	Leg #1
KOP MD:	5538.00
KOP TVD:	5535.52
EOL MD:	7220.00
Footage drilled:	1682.00
Max. Recorded TVD=	5725.45

Second leg description:	Leg #2
KOP MD:	5500.00
KOP TVD:	5497.54
EOL MD:	9242.00
Footage drilled:	3742.00
Max. Recorded TVD=	5756.46

Third leg description:	Leg #3
KOP MD:	5500.00
KOP TVD:	5497.54
EOL MD:	9262.00
Footage drilled:	3762.00
Max. Recorded TVD=	5784.55

Fourth leg description:	Leg #4
KOP MD:	0.00
KOP TVD:	0.00
EOL MD:	0.00
Footage drilled:	0.00
Max. Recorded TVD=	0

Total Footage Drilled (MD):	***9186.00***
Deepest point (TVD):	***5784.55***

ANETH UNIT No.H227

TRI-LATERAL SIDETRACK COMPLETION

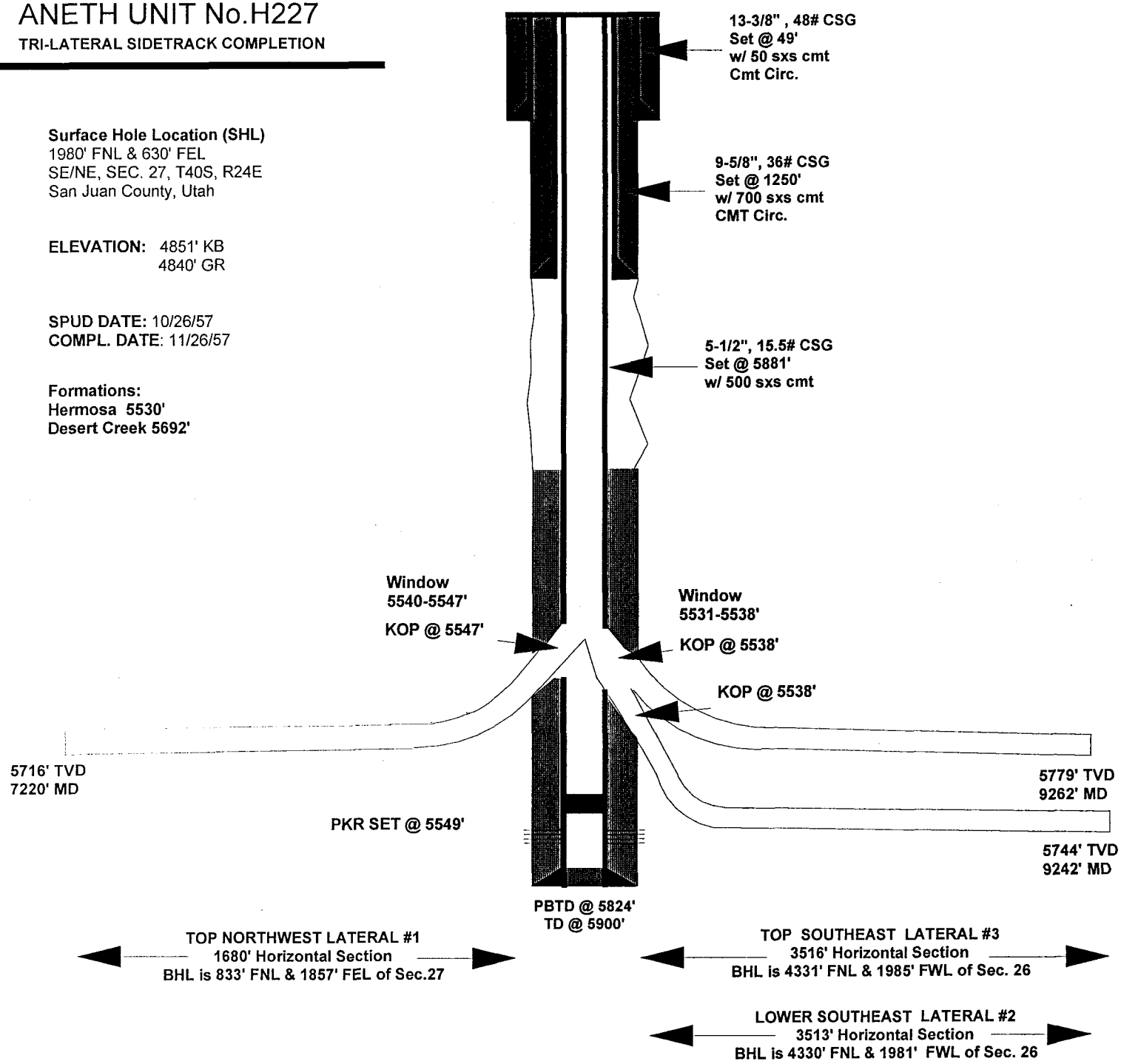
4/28/98

Surface Hole Location (SHL)
1980' FNL & 630' FEL
SE/NE, SEC. 27, T40S, R24E
San Juan County, Utah

ELEVATION: 4851' KB
4840' GR

SPUD DATE: 10/26/57
COMPL. DATE: 11/26/57

Formations:
Hermosa 5530'
Desert Creek 5692'



PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #1	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 1679.72 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: North 46.94° West		TOTAL CORR.(-/+)	12.3
DATE: 03/11/98	TIME: 9:08 AM		

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 313.3

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	TARGET TRACKING TO CENTER RIGHT(+) LEFT(-)
TIE	5538	1.7	339.1	5535.52	53.24	-77.52	92.93	0.55	N 20.9 W	-14.43
1	5550	5.0	332.2	5547.50	53.87	-77.83	93.58	27.98	N 27.8 W	-14.19
2	5555	6.5	331.0	5552.47	54.31	-78.06	94.06	30.09	N 29.0 W	-14.03
3	5560	8.2	328.5	5557.43	54.86	-78.39	94.67	34.59	N 31.5 W	-13.85
4	5565	8.6	328.5	5562.38	55.48	-78.77	95.37	8.00	N 31.5 W	-13.66
5	5570	10.6	328.5	5567.31	56.19	-79.21	96.18	40.00	N 31.5 W	-13.44
6	5575	12.6	328.5	5572.21	57.05	-79.73	97.15	40.00	N 31.5 W	-13.18
7	5580	14.6	328.5	5577.06	58.05	-80.35	98.28	40.00	N 31.5 W	-12.87
8	5585	16.5	328.5	5581.88	59.19	-81.05	99.58	38.00	N 31.5 W	-12.52
9	5590	18.5	328.5	5586.65	60.47	-81.83	101.03	40.00	N 31.6 W	-12.13
10	5595	21.7	328.4	5591.34	61.94	-82.73	102.69	64.00	N 31.6 W	-11.68
11	5600	23.7	328.4	5595.96	63.58	-83.74	104.55	40.00	N 31.6 W	-11.18
12	5605	25.8	328.4	5600.50	65.36	-84.84	106.57	42.00	N 31.6 W	-10.63
13	5610	27.9	328.4	5604.96	67.29	-86.02	108.75	42.00	N 31.6 W	-10.04
14	5615	29.8	328.4	5609.34	69.34	-87.29	111.08	38.00	N 31.6 W	-9.41
15	5620	31.8	328.4	5613.63	71.52	-88.63	113.55	40.00	N 31.6 W	-8.74
16	5625	33.5	328.4	5617.84	73.82	-90.04	116.16	34.00	N 31.6 W	-8.04
17	5630	35.5	330.0	5621.96	76.25	-91.49	118.88	43.91	N 30.0 W	-7.27
18	5635	37.4	331.1	5625.98	78.84	-92.95	121.72	40.18	N 28.9 W	-6.38
19	5640	39.3	331.2	5629.91	81.56	-94.45	124.67	38.02	N 28.8 W	-5.43
20	5645	40.9	330.0	5633.73	84.36	-96.03	127.74	35.54	N 30.0 W	-4.48
21	5650	42.3	328.1	5637.47	87.21	-97.73	130.94	37.69	N 31.9 W	-3.58
22	5655	43.8	326.3	5641.12	90.08	-99.58	134.25	38.78	N 33.7 W	-2.76
23	5660	45.7	323.8	5644.67	92.96	-101.60	137.70	51.79	N 36.2 W	-2.04
24	5665	47.3	321.5	5648.12	95.84	-103.80	141.28	46.23	N 38.5 W	-1.46
25	5670	48.9	320.3	5651.45	98.73	-106.15	144.96	36.65	N 39.7 W	-0.97
26	5675	50.7	320.2	5654.68	101.67	-108.59	148.76	36.03	N 39.8 W	-0.50
27	5680	52.4	321.1	5657.79	104.70	-111.07	152.64	36.81	N 38.9 W	0.00
28	5685	54.2	322.9	5660.78	107.86	-113.54	156.60	46.14	N 37.1 W	0.60
29	5690	55.9	324.8	5663.64	111.16	-115.96	160.63	46.11	N 35.2 W	1.35
30	5695	58.0	326.8	5666.37	114.63	-118.31	164.72	53.74	N 33.2 W	2.26
31	5700	59.5	327.7	5668.96	118.23	-120.62	168.87	33.72	N 32.3 W	3.29
32	5705	61.0	327.3	5671.45	121.89	-122.96	173.08	30.79	N 32.7 W	4.36
33	5710	62.2	325.4	5673.82	125.55	-125.39	177.36	41.15	N 34.6 W	5.35
34	5715	63.2	323.0	5676.12	129.15	-127.99	181.72	47.11	N 37.0 W	6.19
35	5720	64.7	320.2	5678.31	132.67	-130.78	186.17	58.57	N 39.8 W	6.83
36	5725	65.9	317.8	5680.40	136.10	-133.76	190.69	49.77	N 42.2 W	7.28

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #1	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 1679.72 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: North 46.94° West		TOTAL CORR.(-/+)	12.3
DATE: 03/11/98	TIME: 9:08 AM		

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 313.3

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
37	5730	67.2	315.8	5682.39	139.44	-136.90	195.27	44.97	N 44.2 W	7.56
38	5735	68.2	315.0	5684.29	142.73	-140.15	199.89	24.88	N 45.0 W	7.73
39	5740	69.7	315.7	5686.09	146.05	-143.43	204.55	32.72	N 44.3 W	7.90
40	5745	70.9	316.7	5687.77	149.45	-146.69	209.25	30.50	N 43.3 W	8.13
41	5750	72.4	318.1	5689.35	152.94	-149.90	213.99	40.08	N 41.9 W	8.47
42	5755	73.8	319.4	5690.80	156.54	-153.05	218.75	37.45	N 40.6 W	8.93
43	5760	75.3	320.7	5692.13	160.24	-156.15	223.54	39.09	N 39.3 W	9.49
44	5765	77.0	321.2	5693.33	164.01	-159.21	228.35	35.36	N 38.8 W	10.14
45	5770	78.8	321.0	5694.38	167.81	-162.28	233.19	36.21	N 39.0 W	10.80
46	5775	80.6	319.9	5695.27	171.60	-165.41	238.07	42.01	N 40.1 W	11.41
47	5780	82.6	318.5	5696.00	175.35	-168.64	242.99	48.65	N 41.5 W	11.92
48	5785	85.2	316.7	5696.53	179.02	-171.99	247.95	63.13	N 43.3 W	12.29
49	5790	86.6	315.7	5696.89	182.62	-175.45	252.93	34.38	N 44.3 W	12.54
50	5795	87.3	315.0	5697.15	186.17	-178.95	257.92	19.78	N 45.0 W	12.72
51	5800	87.2	314.7	5697.39	189.69	-182.50	262.91	6.32	N 45.3 W	12.86
52	5810	85.2	314.5	5698.06	196.70	-189.60	272.89	20.10	N 45.5 W	13.08
53	5820	83.9	314.1	5699.01	203.65	-196.72	282.84	13.60	N 45.9 W	13.25
54	5830	84.0	313.8	5700.06	210.55	-203.88	292.78	3.15	N 46.2 W	13.37
55	5840	85.0	313.6	5701.02	217.43	-211.08	302.74	10.20	N 46.4 W	13.43
56	5850	86.3	313.2	5701.78	224.28	-218.32	312.71	13.60	N 46.8 W	13.45
57	5860	87.3	312.9	5702.34	231.10	-225.62	322.69	10.44	N 47.1 W	13.40
58	5870	87.9	312.8	5702.76	237.89	-232.94	332.68	6.08	N 47.2 W	13.32
59	5880	88.3	312.7	5703.09	244.67	-240.28	342.68	4.12	N 47.3 W	13.23
60	5890	88.7	312.4	5703.35	251.43	-247.65	352.67	5.00	N 47.6 W	13.09
61	5900	89.4	311.8	5703.51	258.14	-255.07	362.67	9.22	N 48.2 W	12.88
62	5910	90.2	311.5	5703.55	264.78	-262.54	372.66	8.54	N 48.5 W	12.59
63	5920	90.4	311.2	5703.50	271.39	-270.05	382.66	3.61	N 48.8 W	12.25
64	5930	90.9	311.1	5703.38	277.97	-277.58	392.65	5.10	N 48.9 W	11.88
65	5940	91.6	311.0	5703.17	284.54	-285.11	402.64	7.07	N 49.0 W	11.48
66	5950	92.2	310.8	5702.83	291.08	-292.67	412.63	6.32	N 49.2 W	11.06
67	5960	90.8	310.7	5702.57	297.60	-300.24	422.61	14.04	N 49.3 W	10.62
68	5970	89.1	310.4	5702.58	304.11	-307.84	432.60	17.26	N 49.6 W	10.13
69	5980	88.4	310.0	5702.80	310.56	-315.48	442.58	8.06	N 50.0 W	9.59
70	5990	88.5	309.9	5703.07	316.98	-323.14	452.56	1.41	N 50.1 W	9.01
71	6000	88.4	309.9	5703.34	323.39	-330.81	462.54	1.00	N 50.1 W	8.41
72	6010	88.6	310.0	5703.60	329.81	-338.47	472.52	2.24	N 50.0 W	7.83
73	6020	89.1	309.9	5703.80	336.23	-346.14	482.50	5.10	N 50.1 W	7.24

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #1	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 1679.72 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: North 46.94° West		TOTAL CORR.(-/+)	12.3
DATE: 03/11/98	TIME: 9:08 AM		

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 313.3

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
74	6030	90.5	310.0	5703.84	342.65	-353.80	492.48	14.04	N 50.0 W	6.66
75	6040	91.8	310.0	5703.64	349.08	-361.46	502.46	13.00	N 50.0 W	6.08
76	6050	92.4	310.0	5703.27	355.50	-369.12	512.44	6.00	N 50.0 W	5.50
77	6060	92.4	309.9	5702.85	361.91	-376.78	522.42	1.00	N 50.1 W	4.92
78	6070	92.3	309.7	5702.44	368.31	-384.45	532.39	2.23	N 50.3 W	4.31
79	6080	92.4	309.8	5702.03	374.70	-392.13	542.36	1.41	N 50.2 W	3.69
80	6090	92.4	309.6	5701.61	381.08	-399.82	552.33	2.00	N 50.4 W	3.06
81	6100	92.6	309.4	5701.18	387.44	-407.53	562.30	2.83	N 50.6 W	2.39
82	6110	92.2	309.2	5700.76	393.76	-415.26	572.27	4.47	N 50.8 W	1.69
83	6120	91.3	310.1	5700.45	400.14	-422.96	582.24	12.72	N 49.9 W	1.06
84	6130	91.4	311.0	5700.22	406.64	-430.55	592.23	9.05	N 49.0 W	0.58
85	6140	92.4	311.7	5699.88	413.24	-438.06	602.22	12.20	N 48.3 W	0.23
86	6150	93.0	312.0	5699.41	419.91	-445.50	612.20	6.71	N 48.0 W	-0.02
87	6160	93.1	311.9	5698.88	426.58	-452.92	622.18	1.41	N 48.1 W	-0.26
88	6170	93.1	311.8	5698.34	433.25	-460.36	632.17	1.00	N 48.2 W	-0.51
89	6180	92.2	311.9	5697.88	439.91	-467.80	642.15	9.06	N 48.1 W	-0.76
90	6190	90.7	311.9	5697.63	446.59	-475.24	652.15	15.00	N 48.1 W	-1.01
91	6200	90.2	312.0	5697.55	453.27	-482.68	662.14	5.10	N 48.0 W	-1.25
92	6210	90.0	312.6	5697.53	460.00	-490.08	672.14	6.32	N 47.4 W	-1.42
93	6220	89.9	313.1	5697.54	466.80	-497.41	682.14	5.10	N 46.9 W	-1.50
94	6230	89.9	313.1	5697.56	473.63	-504.71	692.14	0.00	N 46.9 W	-1.54
95	6240	90.0	313.0	5697.56	480.46	-512.02	702.14	1.41	N 47.0 W	-1.58
96	6250	90.1	312.9	5697.56	487.27	-519.34	712.14	1.41	N 47.1 W	-1.65
97	6260	90.1	312.7	5697.54	494.07	-526.67	722.14	2.00	N 47.3 W	-1.74
98	6270	90.6	312.5	5697.48	500.84	-534.03	732.14	5.39	N 47.5 W	-1.86
99	6280	91.1	312.3	5697.33	507.58	-541.42	742.14	5.39	N 47.7 W	-2.02
100	6290	90.8	312.3	5697.16	514.31	-548.81	752.13	3.00	N 47.7 W	-2.19
101	6300	90.8	312.4	5697.02	521.04	-556.20	762.13	1.00	N 47.6 W	-2.36
102	6310	91.0	312.9	5696.87	527.82	-563.56	772.13	5.38	N 47.1 W	-2.48
103	6320	91.1	313.6	5696.68	534.67	-570.84	782.13	7.07	N 46.4 W	-2.49
104	6330	92.0	314.3	5696.41	541.61	-578.04	792.12	11.40	N 45.7 W	-2.37
105	6340	92.6	315.0	5696.01	548.63	-585.14	802.11	9.22	N 45.0 W	-2.14
106	6350	93.0	315.1	5695.52	555.70	-592.20	812.10	4.12	N 44.9 W	-1.84
107	6360	92.2	315.0	5695.07	562.77	-599.26	822.08	8.06	N 45.0 W	-1.53
108	6370	90.4	315.1	5694.84	569.84	-606.32	832.07	18.03	N 44.9 W	-1.23
109	6380	88.8	315.0	5694.91	576.92	-613.39	842.07	16.03	N 45.0 W	-0.93
110	6390	88.6	315.1	5695.14	584.00	-620.45	852.06	2.24	N 44.9 W	-0.62

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #1	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 1679.72 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: North 46.94° West		TOTAL CORR.(-/+)	12.3
DATE: 03/11/98	TIME: 9:08 AM		

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 313.3

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
111	6400	88.9	315.1	5695.36	591.08	-627.51	862.05	3.00	N 44.9 W	-0.31
112	6410	89.1	315.7	5695.53	598.20	-634.53	872.05	6.32	N 44.3 W	0.06
113	6420	89.2	315.8	5695.68	605.36	-641.50	882.03	1.41	N 44.2 W	0.48
114	6430	89.2	315.9	5695.82	612.53	-648.47	892.02	1.00	N 44.1 W	0.93
115	6440	89.6	316.0	5695.92	619.72	-655.42	902.01	4.12	N 44.0 W	1.39
116	6450	90.2	316.3	5695.94	626.93	-662.35	912.00	6.71	N 43.7 W	1.88
117	6460	90.3	316.2	5695.90	634.16	-669.26	921.99	1.41	N 43.8 W	2.40
118	6470	89.7	315.6	5695.90	641.34	-676.22	931.98	8.49	N 44.4 W	2.85
119	6480	88.8	315.1	5696.03	648.45	-683.25	941.97	10.30	N 44.9 W	3.20
120	6490	87.6	314.6	5696.34	655.50	-690.34	951.96	13.00	N 45.4 W	3.47
121	6500	85.8	314.2	5696.92	662.48	-697.47	961.94	18.44	N 45.8 W	3.66
122	6510	84.4	314.2	5697.77	669.43	-704.61	971.90	14.00	N 45.8 W	3.82
123	6520	83.6	314.4	5698.82	676.38	-711.73	981.85	8.24	N 45.6 W	3.99
124	6530	83.5	314.6	5699.94	683.34	-718.82	991.78	2.22	N 45.4 W	4.20
125	6540	83.5	314.7	5701.07	690.32	-725.88	1001.72	0.99	N 45.3 W	4.43
126	6550	83.7	314.2	5702.19	697.28	-732.98	1011.65	5.36	N 45.8 W	4.63
127	6560	83.9	313.5	5703.27	704.17	-740.15	1021.59	7.24	N 46.5 W	4.72
128	6570	83.9	312.7	5704.33	710.96	-747.41	1031.54	7.95	N 47.3 W	4.69
129	6580	83.9	312.3	5705.39	717.68	-754.74	1041.48	3.98	N 47.7 W	4.55
130	6590	84.1	312.0	5706.44	724.35	-762.11	1051.42	3.59	N 48.0 W	4.34
131	6600	84.1	310.9	5707.47	730.94	-769.57	1061.36	10.94	N 49.1 W	4.02
132	6610	84.2	311.7	5708.49	737.50	-777.04	1071.30	8.02	N 48.3 W	3.67
133	6620	84.3	311.9	5709.49	744.14	-784.46	1081.25	2.23	N 48.1 W	3.41
134	6630	84.0	311.8	5710.51	750.77	-791.87	1091.19	3.16	N 48.2 W	3.16
135	6640	83.5	311.5	5711.60	757.38	-799.30	1101.13	5.82	N 48.5 W	2.87
136	6650	83.9	311.3	5712.69	763.95	-806.75	1111.07	4.47	N 48.7 W	2.54
137	6660	84.2	311.1	5713.73	770.50	-814.24	1121.00	3.60	N 48.9 W	2.17
138	6670	84.6	311.2	5714.71	777.05	-821.73	1130.95	4.12	N 48.8 W	1.80
139	6680	84.6	311.1	5715.65	783.60	-829.23	1140.90	1.00	N 48.9 W	1.42
140	6690	84.7	311.1	5716.58	790.15	-836.73	1150.85	1.00	N 48.9 W	1.04
141	6700	84.7	310.9	5717.50	796.68	-844.24	1160.80	1.99	N 49.1 W	0.64
142	6710	85.5	310.9	5718.36	803.21	-851.77	1170.75	8.00	N 49.1 W	0.22
143	6720	86.6	310.9	5719.05	809.74	-859.31	1180.72	11.00	N 49.1 W	-0.20
144	6730	87.6	310.9	5719.55	816.28	-866.86	1190.70	10.00	N 49.1 W	-0.62
145	6740	88.0	311.0	5719.94	822.83	-874.41	1200.68	4.12	N 49.0 W	-1.03
146	6750	88.2	311.0	5720.27	829.38	-881.95	1210.67	2.00	N 49.0 W	-1.43
147	6760	88.8	311.3	5720.53	835.96	-889.48	1220.66	6.71	N 48.7 W	-1.81

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #1	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 1679.72 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: North 46.94° West		TOTAL CORR.(-/+)	12.3
DATE: 03/11/98	TIME: 9:08 AM		

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 313.3

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
148	6770	89.4	311.3	5720.69	842.56	-896.99	1230.65	6.00	N 48.7 W	-2.16
149	6780	90.1	311.4	5720.73	849.17	-904.50	1240.64	7.07	N 48.6 W	-2.50
150	6790	90.7	311.2	5720.66	855.77	-912.01	1250.64	6.32	N 48.8 W	-2.85
151	6800	91.3	311.0	5720.49	862.34	-919.55	1260.63	6.32	N 49.0 W	-3.24
152	6810	91.0	311.1	5720.28	868.90	-927.09	1270.62	3.16	N 48.9 W	-3.63
153	6820	89.9	311.4	5720.21	875.50	-934.60	1280.61	11.40	N 48.6 W	-3.99
154	6830	88.9	311.5	5720.31	882.12	-942.10	1290.61	10.05	N 48.5 W	-4.31
155	6840	87.9	311.6	5720.59	888.75	-949.58	1300.60	10.05	N 48.4 W	-4.62
156	6850	87.3	311.4	5721.01	895.37	-957.06	1310.58	6.32	N 48.6 W	-4.94
157	6860	87.5	311.2	5721.46	901.96	-964.57	1320.57	2.83	N 48.8 W	-5.29
158	6870	87.2	310.9	5721.92	908.52	-972.10	1330.55	4.24	N 49.1 W	-5.68
159	6880	86.6	310.5	5722.47	915.03	-979.67	1340.52	7.21	N 49.5 W	-6.13
160	6890	86.6	310.1	5723.06	921.49	-987.28	1350.49	3.99	N 49.9 W	-6.66
161	6900	86.7	309.8	5723.64	927.90	-994.94	1360.46	3.16	N 50.2 W	-7.24
162	6910	87.1	309.5	5724.18	934.27	-1002.63	1370.42	5.00	N 50.5 W	-7.88
163	6920	87.1	309.1	5724.69	940.60	-1010.35	1380.38	3.99	N 50.9 W	-8.58
164	6930	87.6	309.1	5725.15	946.90	-1018.11	1390.35	5.00	N 50.9 W	-9.31
165	6940	88.9	309.7	5725.46	953.24	-1025.83	1400.32	14.32	N 50.3 W	-9.99
166	6950	89.9	310.1	5725.56	959.65	-1033.50	1410.30	10.77	N 49.9 W	-10.59
167	6960	91.4	310.5	5725.45	966.12	-1041.13	1420.29	15.52	N 49.5 W	-11.11
168	6970	93.0	311.2	5725.06	972.66	-1048.69	1430.27	17.46	N 48.8 W	-11.54
169	6980	93.9	311.9	5724.46	979.28	-1056.16	1440.25	11.39	N 48.1 W	-11.85
170	6990	94.2	312.2	5723.76	985.96	-1063.56	1450.22	4.24	N 47.8 W	-12.06
171	7000	94.5	311.8	5723.00	992.63	-1070.97	1460.19	4.99	N 48.2 W	-12.29
172	7010	93.7	311.5	5722.28	999.26	-1078.43	1470.16	8.54	N 48.5 W	-12.58
173	7020	92.3	311.9	5721.76	1005.90	-1085.88	1480.14	14.56	N 48.1 W	-12.86
174	7030	91.1	312.4	5721.46	1012.61	-1093.29	1490.13	13.00	N 47.6 W	-13.06
175	7040	90.6	312.6	5721.32	1019.37	-1100.66	1500.13	5.39	N 47.4 W	-13.20
176	7050	90.8	312.4	5721.19	1026.12	-1108.04	1510.13	2.83	N 47.6 W	-13.35
177	7060	91.1	312.3	5721.03	1032.86	-1115.43	1520.13	3.16	N 47.7 W	-13.51
178	7070	91.4	312.1	5720.81	1039.57	-1122.83	1530.12	3.61	N 47.9 W	-13.71
179	7080	91.6	312.2	5720.55	1046.28	-1130.24	1540.12	2.24	N 47.8 W	-13.91
180	7090	91.6	312.8	5720.27	1053.03	-1137.61	1550.11	6.00	N 47.2 W	-14.05
181	7100	91.4	313.6	5720.01	1059.88	-1144.90	1560.11	8.24	N 46.4 W	-14.07
182	7110	91.5	314.1	5719.75	1066.80	-1152.11	1570.10	5.10	N 45.9 W	-13.97
183	7120	91.8	314.2	5719.47	1073.76	-1159.28	1580.10	3.16	N 45.8 W	-13.83
184	7130	91.8	314.3	5719.15	1080.74	-1166.44	1590.09	1.00	N 45.7 W	-13.66

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #1	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 1679.72 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: North 46.94° West		TOTAL CORR.(-/+)	12.3
DATE: 03/11/98	TIME: 9:28 AM		

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 313.3

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
185	7140	92.0	314.2	5718.82	1087.71	-1173.60	1600.09	2.24	N 45.8 W	-13.50
186	7150	91.8	314.7	5718.49	1094.71	-1180.73	1610.08	5.38	N 45.3 W	-13.30
187	7160	91.9	315.5	5718.17	1101.79	-1187.79	1620.07	8.06	N 44.5 W	-12.99
188	7170	92.1	316.5	5717.82	1108.98	-1194.73	1630.05	10.19	N 43.5 W	-12.52
189	7180	92.2	317.6	5717.44	1116.29	-1201.54	1640.02	11.04	N 42.4 W	-11.86
190	7190	92.3	318.8	5717.05	1123.74	-1208.20	1649.98	12.03	N 41.2 W	-11.01
191	7195	92.4	319.4	5716.84	1127.52	-1211.47	1654.95	12.16	N 40.6 W	-10.51
192	7205	92.6	320.6	5716.41	1135.17	-1217.89	1664.87	12.15	N 39.4 W	-9.34
193	7220	92.9	322.4	5715.69	1146.90	-1227.22	1679.70	12.15	N 37.6 W	-7.21

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #2	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3512.52 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.01 East		TOTAL CORR.(-/+)	12.3
MINIMUM CURV	DATE: 03/20/98 TIME: 2:24 PM	TRUE TO GRID	

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	TARGET TRACKING TO CENTER RIGHT(+) LEFT(-)
TIE	5500	1.5	344.1	5497.54	52.24	-77.18	-92.31	0.24	N 15.9 W	12.82
1	5541	1.7	109.5	5538.53	52.55	-76.75	-92.20	6.94	S 70.5 E	12.30
2	5545	2.8	118.2	5542.53	52.49	-76.61	-92.05	28.72	S 61.8 E	12.26
3	5550	4.4	121.4	5547.52	52.33	-76.34	-91.75	32.24	S 58.6 E	12.19
4	5555	6.2	123.6	5552.50	52.08	-75.95	-91.29	36.22	S 56.4 E	12.12
5	5560	8.1	124.3	5557.46	51.73	-75.44	-90.68	38.04	S 55.7 E	12.03
6	5565	10.0	123.7	5562.40	51.29	-74.78	-89.90	38.05	S 56.3 E	11.92
7	5570	12.1	123.2	5567.30	50.76	-73.98	-88.95	42.04	S 56.8 E	11.78
8	5575	14.1	122.6	5572.17	50.15	-73.03	-87.83	40.09	S 57.4 E	11.60
9	5580	16.1	122.1	5577.00	49.45	-71.93	-86.55	40.08	S 57.9 E	11.38
10	5585	18.1	121.5	5581.78	48.68	-70.68	-85.10	40.15	S 58.5 E	11.12
11	5590	20.0	121.0	5586.50	47.83	-69.29	-83.50	38.14	S 59.0 E	10.81
12	5595	22.3	120.4	5591.17	46.91	-67.74	-81.73	46.20	S 59.6 E	10.46
13	5600	24.4	119.9	5595.76	45.92	-66.02	-79.79	42.19	S 60.1 E	10.05
14	5605	26.3	119.3	5600.28	44.86	-64.16	-77.70	38.35	S 60.7 E	9.59
15	5610	27.9	116.4	5604.73	43.80	-62.15	-75.49	41.49	S 63.6 E	9.04
16	5615	29.9	114.3	5609.10	42.76	-59.96	-73.18	44.85	S 65.7 E	8.34
17	5620	31.4	111.9	5613.41	41.77	-57.62	-70.77	38.71	S 68.1 E	7.52
18	5625	33.1	109.3	5617.63	40.83	-55.12	-68.28	43.88	S 70.7 E	6.54
19	5630	34.7	106.4	5621.78	39.98	-52.47	-65.74	45.50	S 73.6 E	5.40
20	5635	36.4	104.5	5625.85	39.20	-49.66	-63.14	40.54	S 75.5 E	4.10
21	5640	38.0	103.9	5629.84	38.46	-46.73	-60.47	32.81	S 76.1 E	2.69
22	5645	39.6	104.5	5633.73	37.69	-43.70	-57.69	32.87	S 75.5 E	1.23
23	5650	41.0	106.3	5637.55	36.83	-40.58	-54.80	36.41	S 73.7 E	-0.22
24	5655	42.8	108.0	5641.27	35.85	-37.39	-51.77	42.56	S 72.0 E	-1.62
25	5660	44.3	109.6	5644.89	34.74	-34.13	-48.61	37.23	S 70.4 E	-2.98
26	5665	45.9	111.0	5648.42	33.51	-30.81	-45.32	37.65	S 69.0 E	-4.29
27	5670	47.4	112.3	5651.85	32.17	-27.43	-41.91	35.46	S 67.7 E	-5.55
28	5675	49.0	113.2	5655.18	30.72	-23.99	-38.39	34.70	S 66.8 E	-6.78
29	5680	50.9	114.3	5658.40	29.18	-20.49	-34.75	41.56	S 65.7 E	-7.98
30	5685	52.9	115.2	5661.49	27.53	-16.92	-31.00	42.43	S 64.8 E	-9.14
31	5690	54.7	116.5	5664.44	25.77	-13.29	-27.12	41.67	S 63.5 E	-10.27
32	5695	56.8	116.9	5667.25	23.92	-9.59	-23.13	42.52	S 63.1 E	-11.36
33	5700	58.9	117.3	5669.91	21.99	-5.83	-19.04	42.54	S 62.7 E	-12.44
34	5705	60.9	118.7	5672.42	19.96	-2.01	-14.85	46.76	S 61.3 E	-13.49
35	5710	63.1	119.7	5674.77	17.80	1.85	-10.54	47.41	S 60.3 E	-14.47
36	5715	65.2	120.8	5676.95	15.54	5.73	-6.14	46.43	S 59.2 E	-15.38

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #2	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3512.52 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.01 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURV DATE: 03/20/98 TIME: 2:24 PM TRUE TO GRID

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	TARGET TRACKING TO CENTER RIGHT(+) LEFT(-)
37	5720	67.5	122.6	5678.96	13.13	9.63	-1.63	56.60	S 57.4 E	-16.20
38	5725	69.5	123.9	5680.79	10.58	13.52	2.97	46.75	S 56.1 E	-16.91
39	5730	71.4	124.6	5682.46	7.93	17.41	7.64	40.22	S 55.4 E	-17.54
40	5735	73.0	124.9	5683.99	5.21	21.33	12.36	32.51	S 55.1 E	-18.14
41	5740	74.0	125.1	5685.41	2.46	25.25	17.12	20.36	S 54.9 E	-18.73
42	5745	74.8	124.9	5686.75	-0.30	29.20	21.90	16.46	S 55.1 E	-19.32
43	5750	75.3	125.1	5688.04	-3.07	33.15	26.69	10.72	S 54.9 E	-19.90
44	5755	75.8	125.0	5689.29	-5.85	37.12	31.50	10.19	S 55.0 E	-20.49
45	5760	76.0	125.0	5690.51	-8.63	41.09	36.31	4.00	S 55.0 E	-21.08
46	5765	76.6	125.0	5691.69	-11.42	45.07	41.13	12.00	S 55.0 E	-21.67
47	5770	77.4	124.9	5692.82	-14.21	49.06	45.97	16.12	S 55.1 E	-22.27
48	5775	77.9	125.1	5693.89	-17.01	53.06	50.82	10.74	S 54.9 E	-22.87
49	5780	78.3	125.3	5694.92	-19.83	57.06	55.67	8.91	S 54.7 E	-23.44
50	5790	79.4	125.6	5696.85	-25.52	65.05	65.42	11.39	S 54.4 E	-24.56
51	5800	80.5	125.9	5698.60	-31.27	73.04	75.21	11.39	S 54.1 E	-25.64
52	5810	81.6	125.9	5700.15	-37.06	81.05	85.03	11.00	S 54.1 E	-26.69
53	5820	83.3	125.9	5701.47	-42.88	89.08	94.89	17.00	S 54.1 E	-27.74
54	5830	84.5	125.8	5702.53	-48.70	97.14	104.77	12.04	S 54.2 E	-28.80
55	5840	84.8	126.0	5703.46	-54.54	105.20	114.67	3.60	S 54.0 E	-29.86
56	5850	84.7	126.2	5704.38	-60.41	113.25	124.58	2.23	S 53.8 E	-30.88
57	5860	84.7	126.8	5705.30	-66.33	121.25	134.49	5.97	S 53.2 E	-31.84
58	5870	84.8	127.9	5706.22	-72.37	129.17	144.42	11.00	S 52.1 E	-32.65
59	5880	85.0	128.8	5707.10	-78.55	136.98	154.36	9.18	S 51.2 E	-33.28
60	5890	84.7	129.2	5708.00	-84.82	144.72	164.30	4.99	S 50.8 E	-33.80
61	5900	84.6	129.3	5708.93	-91.12	152.43	174.25	1.41	S 50.7 E	-34.28
62	5910	84.4	129.2	5709.89	-97.42	160.14	184.19	2.23	S 50.8 E	-34.76
63	5920	83.8	129.0	5710.92	-103.69	167.86	194.12	6.32	S 51.0 E	-35.26
64	5930	83.7	129.1	5712.01	-109.95	175.58	204.05	1.41	S 50.9 E	-35.77
65	5940	84.5	128.9	5713.04	-116.21	183.31	213.98	8.24	S 51.1 E	-36.29
66	5950	86.5	129.2	5713.82	-122.49	191.05	223.94	20.22	S 50.8 E	-36.80
67	5960	87.8	129.5	5714.32	-128.82	198.77	233.92	13.34	S 50.5 E	-37.27
68	5970	88.1	129.2	5714.68	-135.16	206.50	243.90	4.24	S 50.8 E	-37.73
69	5980	87.3	129.0	5715.08	-141.46	214.25	253.88	8.25	S 51.0 E	-38.23
70	5990	87.4	129.6	5715.54	-147.79	221.98	263.86	6.08	S 50.4 E	-38.70
71	6000	87.7	130.3	5715.97	-154.20	229.64	273.84	7.61	S 49.7 E	-39.06
72	6010	87.9	130.6	5716.35	-160.69	237.25	283.83	3.60	S 49.4 E	-39.33
73	6020	88.3	131.2	5716.68	-167.23	244.80	293.82	7.21	S 48.8 E	-39.52

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #2	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3512.52 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.01 East		TOTAL CORR.(-/+)	12.3
MINIMUM CURV	DATE: 03/20/98 TIME: 2:24 PM	TRUE TO GRID	

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
74	6030	88.7	131.7	5716.95	-173.85	252.29	303.82	6.40	S 48.3 E	-39.62
75	6040	88.6	132.2	5717.18	-180.53	259.73	313.82	5.10	S 47.8 E	-39.63
76	6050	88.6	132.3	5717.43	-187.25	267.13	323.81	1.00	S 47.7 E	-39.58
77	6060	88.8	132.4	5717.65	-193.99	274.52	333.81	2.24	S 47.6 E	-39.52
78	6070	89.1	132.6	5717.84	-200.74	281.89	343.81	3.61	S 47.4 E	-39.44
79	6080	89.0	132.7	5718.00	-207.52	289.24	353.81	1.41	S 47.3 E	-39.32
80	6090	88.8	132.7	5718.19	-214.30	296.59	363.80	2.00	S 47.3 E	-39.20
81	6100	88.8	132.7	5718.40	-221.08	303.94	373.80	0.00	S 47.3 E	-39.08
82	6110	89.2	132.9	5718.58	-227.87	311.27	383.80	4.47	S 47.1 E	-38.94
83	6120	89.7	133.1	5718.67	-234.69	318.59	393.80	5.39	S 46.9 E	-38.76
84	6130	90.1	133.2	5718.69	-241.53	325.88	403.79	4.12	S 46.8 E	-38.56
85	6140	90.2	133.2	5718.66	-248.38	333.17	413.79	1.00	S 46.8 E	-38.35
86	6150	90.2	133.2	5718.63	-255.22	340.46	423.79	0.00	S 46.8 E	-38.14
87	6160	90.4	133.2	5718.58	-262.07	347.75	433.79	2.00	S 46.8 E	-37.93
88	6170	90.2	133.3	5718.53	-268.92	355.04	443.78	2.24	S 46.7 E	-37.71
89	6180	89.7	133.1	5718.53	-275.76	362.32	453.78	5.39	S 46.9 E	-37.51
90	6190	89.6	133.0	5718.59	-282.59	369.63	463.78	1.41	S 47.0 E	-37.32
91	6200	89.7	133.1	5718.66	-289.42	376.94	473.78	1.41	S 46.9 E	-37.14
92	6210	89.7	133.1	5718.71	-296.25	384.24	483.78	0.00	S 46.9 E	-36.95
93	6220	89.8	133.2	5718.75	-303.09	391.54	493.77	1.41	S 46.8 E	-36.75
94	6230	89.8	133.1	5718.79	-309.93	398.83	503.77	1.00	S 46.9 E	-36.55
95	6240	89.4	133.3	5718.86	-316.77	406.12	513.77	4.47	S 46.7 E	-36.34
96	6250	89.0	133.4	5719.00	-323.64	413.39	523.77	4.12	S 46.6 E	-36.10
97	6260	89.2	133.5	5719.15	-330.51	420.65	533.76	2.24	S 46.5 E	-35.85
98	6270	89.5	133.6	5719.27	-337.40	427.90	543.76	3.16	S 46.4 E	-35.58
99	6280	89.7	133.7	5719.34	-344.30	435.13	553.75	2.24	S 46.3 E	-35.29
100	6290	89.8	133.9	5719.38	-351.22	442.35	563.75	2.24	S 46.1 E	-34.97
101	6300	89.4	134.4	5719.45	-358.19	449.53	573.74	6.40	S 45.6 E	-34.60
102	6310	88.5	134.3	5719.63	-365.18	456.68	583.73	9.06	S 45.7 E	-34.19
103	6320	88.4	134.6	5719.90	-372.18	463.81	593.72	3.16	S 45.4 E	-33.76
104	6330	88.7	134.8	5720.16	-379.21	470.92	603.70	3.61	S 45.2 E	-33.29
105	6340	88.9	134.8	5720.37	-386.26	478.01	613.69	2.00	S 45.2 E	-32.80
106	6350	89.1	134.8	5720.54	-393.30	485.11	623.68	2.00	S 45.2 E	-32.31
107	6360	89.0	134.8	5720.71	-400.35	492.20	633.66	1.00	S 45.2 E	-31.82
108	6370	88.9	134.9	5720.89	-407.40	499.29	643.65	1.41	S 45.1 E	-31.33
109	6380	88.8	135.1	5721.09	-414.47	506.36	653.63	2.24	S 44.9 E	-30.80
110	6390	88.7	135.1	5721.31	-421.55	513.42	663.62	1.00	S 44.9 E	-30.26

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #2	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3512.52 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.01 East		TOTAL CORR.(-/+)	12.3
MINIMUM CURV	DATE: 03/20/98 TIME: 2:24 PM	TRUE TO GRID	

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
111	6400	88.7	135.1	5721.54	-428.63	520.47	673.60	0.00	S 44.9 E	-29.72
112	6410	89.0	134.8	5721.74	-435.69	527.55	683.58	4.24	S 45.2 E	-29.21
113	6420	89.2	134.8	5721.89	-442.74	534.64	693.57	2.00	S 45.2 E	-28.72
114	6430	89.9	134.7	5721.97	-449.78	541.75	703.56	7.07	S 45.3 E	-28.24
115	6440	89.9	134.8	5721.99	-456.82	548.85	713.55	1.00	S 45.2 E	-27.76
116	6450	89.3	134.6	5722.06	-463.85	555.96	723.53	6.32	S 45.4 E	-27.29
117	6460	87.8	134.1	5722.31	-470.84	563.10	733.52	15.81	S 45.9 E	-26.88
118	6470	86.4	133.5	5722.82	-477.75	570.31	743.50	15.23	S 46.5 E	-26.56
119	6480	85.6	133.2	5723.52	-484.60	577.57	753.48	8.54	S 46.8 E	-26.33
120	6490	85.9	133.1	5724.26	-491.42	584.84	763.45	3.16	S 46.9 E	-26.13
121	6500	86.6	133.0	5724.91	-498.23	592.13	773.42	7.07	S 47.0 E	-25.95
122	6510	86.8	132.8	5725.49	-505.03	599.45	783.41	2.83	S 47.2 E	-25.79
123	6520	87.1	132.5	5726.02	-511.80	606.79	793.39	4.24	S 47.5 E	-25.68
124	6530	87.7	132.5	5726.47	-518.54	614.16	803.38	6.00	S 47.5 E	-25.59
125	6540	88.3	132.2	5726.82	-525.28	621.54	813.37	6.71	S 47.8 E	-25.53
126	6550	88.4	132.0	5727.11	-531.98	628.96	823.37	2.24	S 48.0 E	-25.51
127	6560	88.6	131.8	5727.37	-538.65	636.40	833.37	2.83	S 48.2 E	-25.53
128	6570	88.7	131.6	5727.61	-545.30	643.86	843.36	2.24	S 48.4 E	-25.58
129	6580	89.2	131.9	5727.79	-551.96	651.32	853.36	5.83	S 48.1 E	-25.62
130	6590	89.8	132.4	5727.88	-558.67	658.74	863.36	7.81	S 47.6 E	-25.60
131	6600	90.6	132.8	5727.84	-565.44	666.10	873.36	8.94	S 47.2 E	-25.49
132	6610	90.7	132.7	5727.73	-572.23	673.44	883.36	1.41	S 47.3 E	-25.36
133	6620	90.0	132.0	5727.67	-578.97	680.83	893.36	9.90	S 48.0 E	-25.30
134	6630	90.0	131.5	5727.67	-585.62	688.29	903.36	5.00	S 48.5 E	-25.34
135	6640	89.9	131.2	5727.68	-592.23	695.80	913.36	3.16	S 48.8 E	-25.46
136	6650	89.6	131.8	5727.72	-598.86	703.29	923.36	6.71	S 48.2 E	-25.54
137	6660	88.9	132.8	5727.85	-605.59	710.68	933.36	12.21	S 47.2 E	-25.49
138	6670	89.0	132.9	5728.03	-612.39	718.01	943.35	1.41	S 47.1 E	-25.34
139	6680	88.8	132.8	5728.23	-619.19	725.34	953.35	2.24	S 47.2 E	-25.19
140	6690	88.2	132.4	5728.49	-625.95	732.70	963.35	7.21	S 47.6 E	-25.09
141	6700	88.1	132.2	5728.81	-632.68	740.09	973.34	2.24	S 47.8 E	-25.04
142	6710	88.5	132.2	5729.11	-639.39	747.50	983.34	4.00	S 47.8 E	-25.00
143	6720	88.1	132.0	5729.40	-646.09	754.92	993.33	4.47	S 48.0 E	-24.98
144	6730	86.8	131.8	5729.85	-652.77	762.35	1003.32	13.15	S 48.2 E	-25.00
145	6740	86.3	132.2	5730.45	-659.44	769.77	1013.30	6.40	S 47.8 E	-25.00
146	6750	86.1	132.8	5731.11	-666.19	777.13	1023.28	6.31	S 47.2 E	-24.91
147	6760	85.7	133.0	5731.83	-672.98	784.43	1033.26	4.47	S 47.0 E	-24.76

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #2	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3512.52 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.01 East		TOTAL CORR.(-/+)	12.3
MINIMUM CURV	DATE: 03/20/98 TIME: 2:24 PM	TRUE TO GRID	

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
148	6770	85.9	133.4	5732.56	-679.80	791.70	1043.23	4.46	S 46.6 E	-24.55
149	6780	86.7	134.0	5733.21	-686.70	798.92	1053.20	9.99	S 46.0 E	-24.25
150	6790	87.1	134.4	5733.75	-693.66	806.08	1063.18	5.65	S 45.6 E	-23.87
151	6800	87.3	134.4	5734.24	-700.65	813.21	1073.16	2.00	S 45.6 E	-23.45
152	6810	88.2	134.4	5734.63	-707.64	820.35	1083.14	9.00	S 45.6 E	-23.03
153	6820	88.4	134.4	5734.92	-714.63	827.49	1093.13	2.00	S 45.6 E	-22.61
154	6830	88.3	134.4	5735.21	-721.62	834.63	1103.12	1.00	S 45.6 E	-22.19
155	6840	88.2	134.6	5735.52	-728.63	841.76	1113.10	2.24	S 45.4 E	-21.76
156	6850	88.3	134.6	5735.82	-735.65	848.88	1123.09	1.00	S 45.4 E	-21.30
157	6860	88.0	134.6	5736.15	-742.67	856.00	1133.07	3.00	S 45.4 E	-20.85
158	6870	88.8	134.9	5736.43	-749.70	863.10	1143.06	8.54	S 45.1 E	-20.37
159	6880	89.7	135.0	5736.56	-756.77	870.17	1153.04	9.06	S 45.0 E	-19.86
160	6890	89.7	135.0	5736.61	-763.84	877.24	1163.03	0.00	S 45.0 E	-19.33
161	6900	89.4	135.0	5736.69	-770.91	884.31	1173.01	3.00	S 45.0 E	-18.81
162	6910	89.5	135.0	5736.78	-777.98	891.38	1183.00	1.00	S 45.0 E	-18.29
163	6920	89.4	135.2	5736.88	-785.06	898.44	1192.98	2.24	S 44.8 E	-17.75
164	6930	90.0	135.3	5736.93	-792.17	905.48	1202.97	6.08	S 44.7 E	-17.18
165	6940	90.9	135.2	5736.85	-799.27	912.52	1212.95	9.06	S 44.8 E	-16.61
166	6950	91.1	135.1	5736.68	-806.36	919.57	1222.93	2.24	S 44.9 E	-16.06
167	6960	91.0	135.3	5736.50	-813.45	926.62	1232.92	2.24	S 44.7 E	-15.50
168	6970	90.8	135.5	5736.34	-820.57	933.64	1242.90	2.83	S 44.5 E	-14.91
169	6980	90.4	135.7	5736.23	-827.71	940.64	1252.88	4.47	S 44.3 E	-14.28
170	6990	90.2	135.8	5736.18	-834.88	947.61	1262.86	2.24	S 44.2 E	-13.63
171	7000	90.2	135.9	5736.15	-842.05	954.58	1272.83	1.00	S 44.1 E	-12.96
172	7010	90.3	135.9	5736.10	-849.23	961.54	1282.81	1.00	S 44.1 E	-12.28
173	7020	90.2	136.1	5736.06	-856.43	968.49	1292.79	2.24	S 43.9 E	-11.58
174	7030	90.0	136.4	5736.04	-863.65	975.40	1302.76	3.61	S 43.6 E	-10.84
175	7040	90.0	136.6	5736.04	-870.90	982.28	1312.73	2.00	S 43.4 E	-10.05
176	7050	90.3	136.9	5736.02	-878.19	989.14	1322.69	4.24	S 43.1 E	-9.23
177	7060	90.6	137.1	5735.94	-885.50	995.96	1332.65	3.61	S 42.9 E	-8.35
178	7070	90.5	137.3	5735.84	-892.84	1002.75	1342.61	2.24	S 42.7 E	-7.45
179	7080	90.4	137.2	5735.76	-900.18	1009.54	1352.57	1.41	S 42.8 E	-6.53
180	7090	90.2	136.4	5735.71	-907.47	1016.38	1362.54	8.25	S 43.6 E	-5.69
181	7100	90.2	135.7	5735.67	-914.67	1023.32	1372.51	7.00	S 44.3 E	-4.99
182	7110	90.1	135.4	5735.65	-921.81	1030.33	1382.49	3.16	S 44.6 E	-4.37
183	7120	90.2	135.4	5735.62	-928.93	1037.35	1392.47	1.00	S 44.6 E	-3.78
184	7130	90.1	135.4	5735.60	-936.05	1044.37	1402.46	1.00	S 44.6 E	-3.18

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #2	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3512.52 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.01 East		TOTAL CORR.(-/+)	12.3
MINIMUM CURV	DATE: 03/20/98 TIME: 2:24 PM	TRUE TO GRID	

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
185	7140	90.0	135.2	5735.59	-943.16	1051.40	1412.44	2.24	S 44.8 E	-2.61
186	7150	90.1	134.6	5735.58	-950.22	1058.49	1422.43	6.08	S 45.4 E	-2.10
187	7160	89.9	134.4	5735.58	-957.22	1065.62	1432.42	2.83	S 45.6 E	-1.66
188	7170	89.9	134.2	5735.60	-964.21	1072.78	1442.41	2.00	S 45.8 E	-1.26
189	7180	90.0	134.3	5735.61	-971.19	1079.94	1452.40	1.41	S 45.7 E	-0.87
190	7190	90.3	134.3	5735.58	-978.17	1087.10	1462.39	3.00	S 45.7 E	-0.47
191	7200	90.4	134.2	5735.52	-985.15	1094.26	1472.39	1.41	S 45.8 E	-0.08
192	7210	89.2	133.9	5735.55	-992.10	1101.45	1482.38	12.37	S 46.1 E	0.28
193	7220	87.8	133.2	5735.81	-998.99	1108.69	1492.37	15.65	S 46.8 E	0.55
194	7230	87.2	132.3	5736.25	-1005.77	1116.03	1502.36	10.81	S 47.7 E	0.68
195	7240	86.6	131.7	5736.79	-1012.45	1123.45	1512.35	8.48	S 48.3 E	0.68
196	7250	86.3	131.6	5737.41	-1019.08	1130.90	1522.33	3.16	S 48.4 E	0.62
197	7260	86.7	131.4	5738.02	-1025.70	1138.38	1532.31	4.47	S 48.6 E	0.53
198	7270	86.7	131.4	5738.60	-1032.30	1145.87	1542.29	0.00	S 48.6 E	0.43
199	7280	86.3	130.9	5739.21	-1038.87	1153.38	1552.27	6.40	S 49.1 E	0.28
200	7290	85.5	130.5	5739.92	-1045.37	1160.95	1562.24	8.94	S 49.5 E	0.06
201	7300	85.2	130.6	5740.73	-1051.85	1168.52	1572.21	3.16	S 49.4 E	-0.20
202	7310	85.1	130.9	5741.58	-1058.36	1176.07	1582.17	3.15	S 49.1 E	-0.41
203	7320	85.5	131.2	5742.40	-1064.90	1183.58	1592.13	4.99	S 48.8 E	-0.58
204	7330	85.6	131.4	5743.17	-1071.48	1191.07	1602.10	2.23	S 48.6 E	-0.70
205	7340	86.4	131.5	5743.87	-1078.09	1198.55	1612.08	8.06	S 48.5 E	-0.80
206	7350	87.4	131.4	5744.41	-1084.70	1206.04	1622.06	10.05	S 48.6 E	-0.89
207	7360	88.0	131.4	5744.81	-1091.30	1213.53	1632.05	6.00	S 48.6 E	-1.00
208	7370	88.3	131.3	5745.14	-1097.91	1221.03	1642.05	3.16	S 48.7 E	-1.11
209	7380	88.5	131.2	5745.42	-1104.50	1228.55	1652.04	2.24	S 48.8 E	-1.24
210	7390	88.7	131.0	5745.66	-1111.07	1236.08	1662.04	2.83	S 49.0 E	-1.40
211	7400	88.9	130.9	5745.87	-1117.62	1243.63	1672.03	2.24	S 49.1 E	-1.58
212	7410	89.1	130.7	5746.04	-1124.15	1251.20	1682.03	2.83	S 49.3 E	-1.79
213	7420	89.2	130.6	5746.19	-1130.67	1258.79	1692.03	1.41	S 49.4 E	-2.02
214	7430	89.4	130.8	5746.31	-1137.19	1266.37	1702.02	2.83	S 49.2 E	-2.25
215	7440	89.8	131.2	5746.38	-1143.75	1273.92	1712.02	5.66	S 48.8 E	-2.43
216	7450	90.2	131.5	5746.38	-1150.36	1281.42	1722.02	5.00	S 48.5 E	-2.54
217	7460	90.1	131.8	5746.36	-1157.00	1288.90	1732.02	3.16	S 48.2 E	-2.60
218	7470	89.3	132.1	5746.41	-1163.69	1296.33	1742.02	8.54	S 47.9 E	-2.61
219	7480	89.2	132.0	5746.54	-1170.38	1303.76	1752.02	1.41	S 48.0 E	-2.60
220	7490	89.9	132.2	5746.62	-1177.09	1311.18	1762.02	7.28	S 47.8 E	-2.58
221	7500	90.4	132.3	5746.59	-1183.81	1318.58	1772.02	5.10	S 47.7 E	-2.54

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #2	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3512.52 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.01 East		TOTAL CORR.(-/+)	12.3
MINIMUM CURV DATE: 03/20/98	TIME: 2:24 PM	TRUE TO GRID	

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	TARGET TRACKING TO CENTER RIGHT(+) LEFT(-)
222	7510	90.8	132.4	5746.49	-1190.55	1325.97	1782.02	4.12	S 47.6 E	-2.48
223	7520	90.9	132.2	5746.34	-1197.28	1333.36	1792.02	2.24	S 47.8 E	-2.42
224	7530	90.2	132.1	5746.24	-1203.99	1340.78	1802.02	7.07	S 47.9 E	-2.40
225	7540	89.7	132.0	5746.25	-1210.68	1348.20	1812.02	5.10	S 48.0 E	-2.39
226	7550	89.7	132.2	5746.31	-1217.39	1355.62	1822.02	2.00	S 47.8 E	-2.37
227	7560	89.3	132.2	5746.39	-1224.11	1363.03	1832.02	4.00	S 47.8 E	-2.34
228	7570	89.1	132.3	5746.53	-1230.83	1370.43	1842.01	2.24	S 47.7 E	-2.29
229	7580	89.5	132.5	5746.65	-1237.57	1377.82	1852.01	4.47	S 47.5 E	-2.22
230	7590	89.5	132.6	5746.74	-1244.33	1385.18	1862.01	1.00	S 47.4 E	-2.13
231	7600	89.4	132.7	5746.84	-1251.11	1392.54	1872.01	1.41	S 47.3 E	-2.01
232	7610	89.5	132.7	5746.93	-1257.89	1399.89	1882.01	1.00	S 47.3 E	-1.89
233	7620	89.2	132.9	5747.05	-1264.68	1407.22	1892.01	3.61	S 47.1 E	-1.75
234	7630	89.4	133.3	5747.17	-1271.52	1414.52	1902.01	4.47	S 46.7 E	-1.56
235	7640	90.4	133.5	5747.19	-1278.39	1421.79	1912.00	10.20	S 46.5 E	-1.32
236	7650	90.5	133.8	5747.11	-1285.29	1429.03	1922.00	3.16	S 46.2 E	-1.03
237	7660	89.6	134.0	5747.10	-1292.22	1436.23	1931.99	9.22	S 46.0 E	-0.70
238	7670	89.4	133.8	5747.19	-1299.16	1443.44	1941.99	2.83	S 46.2 E	-0.36
239	7680	89.9	133.6	5747.25	-1306.07	1450.67	1951.98	5.39	S 46.4 E	-0.07
240	7690	90.3	133.6	5747.23	-1312.96	1457.91	1961.98	4.00	S 46.4 E	0.21
241	7700	90.6	133.6	5747.15	-1319.86	1465.15	1971.97	3.00	S 46.4 E	0.49
242	7710	90.5	133.7	5747.06	-1326.76	1472.38	1981.97	1.41	S 46.3 E	0.78
243	7720	89.0	133.5	5747.10	-1333.66	1479.63	1991.97	15.13	S 46.5 E	1.06
244	7730	88.1	133.5	5747.35	-1340.54	1486.88	2001.96	9.00	S 46.5 E	1.32
245	7740	87.4	133.8	5747.75	-1347.43	1494.11	2011.95	7.61	S 46.2 E	1.61
246	7750	86.3	133.7	5748.29	-1354.34	1501.32	2021.93	11.05	S 46.3 E	1.91
247	7760	86.1	133.8	5748.96	-1361.24	1508.53	2031.90	2.24	S 46.2 E	2.22
248	7770	86.5	133.8	5749.60	-1368.15	1515.73	2041.87	4.00	S 46.2 E	2.53
249	7780	86.6	133.7	5750.20	-1375.05	1522.94	2051.85	1.41	S 46.3 E	2.84
250	7790	86.3	133.2	5750.82	-1381.91	1530.19	2061.83	5.82	S 46.8 E	3.09
251	7800	85.9	133.0	5751.50	-1388.73	1537.47	2071.80	4.47	S 47.0 E	3.28
252	7810	85.8	132.7	5752.23	-1395.51	1544.78	2081.78	3.15	S 47.3 E	3.43
253	7820	85.7	132.8	5752.97	-1402.28	1552.11	2091.75	1.41	S 47.2 E	3.56
254	7830	86.4	132.8	5753.66	-1409.06	1559.43	2101.72	7.00	S 47.2 E	3.70
255	7840	87.2	132.3	5754.22	-1415.81	1566.78	2111.71	9.43	S 47.7 E	3.80
256	7850	88.0	131.6	5754.63	-1422.49	1574.21	2121.70	10.63	S 48.4 E	3.79
257	7860	88.1	131.1	5754.97	-1429.09	1581.71	2131.69	5.10	S 48.9 E	3.67
258	7870	88.0	130.9	5755.31	-1435.65	1589.26	2141.69	2.24	S 49.1 E	3.50
259	7880	87.8	131.0	5755.68	-1442.20	1596.81	2151.68	2.24	S 49.0 E	3.32
260	7890	87.9	130.9	5756.06	-1448.75	1604.35	2161.67	1.41	S 49.1 E	3.13
261	7900	88.8	131.2	5756.34	-1455.31	1611.89	2171.66	9.49	S 48.8 E	2.97

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #2	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3512.52 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.01 East		TOTAL CORR.(-/+)	12.3
MINIMUM CURV	DATE: 03/20/98 TIME: 2:24 PM	TRUE TO GRID	

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
262	7910	89.9	131.1	5756.46	-1461.89	1619.42	2181.66	11.05	S 48.9 E	2.82
263	7920	90.4	131.4	5756.43	-1468.49	1626.94	2191.66	5.83	S 48.6 E	2.69
264	7930	91.5	131.6	5756.27	-1475.11	1634.43	2201.66	11.18	S 48.4 E	2.60
265	7940	92.7	131.5	5755.90	-1481.74	1641.91	2211.65	12.04	S 48.5 E	2.52
266	7950	93.4	131.9	5755.37	-1488.38	1649.36	2221.64	8.06	S 48.1 E	2.47
267	7960	93.5	131.4	5754.77	-1495.02	1656.82	2231.62	5.09	S 48.6 E	2.41
268	7970	93.4	131.4	5754.16	-1501.62	1664.31	2241.60	1.00	S 48.6 E	2.31
269	7980	93.4	131.3	5753.57	-1508.21	1671.80	2251.58	1.00	S 48.7 E	2.19
270	7990	93.2	131.5	5753.00	-1514.81	1679.29	2261.56	2.83	S 48.5 E	2.09
271	8000	93.3	131.5	5752.43	-1521.43	1686.77	2271.55	1.00	S 48.5 E	2.00
272	8010	93.6	130.9	5751.83	-1528.00	1694.28	2281.53	6.70	S 49.1 E	1.86
273	8020	93.6	131.1	5751.20	-1534.55	1701.81	2291.51	2.00	S 48.9 E	1.69
274	8030	93.5	131.0	5750.58	-1541.11	1709.34	2301.49	1.41	S 49.0 E	1.52
275	8040	93.4	130.7	5749.98	-1547.64	1716.89	2311.47	3.16	S 49.3 E	1.32
276	8050	93.2	130.5	5749.40	-1554.13	1724.47	2321.45	2.83	S 49.5 E	1.08
277	8060	93.3	130.4	5748.84	-1560.61	1732.06	2331.43	1.41	S 49.6 E	0.81
278	8070	93.4	130.7	5748.25	-1567.10	1739.65	2341.41	3.16	S 49.3 E	0.56
279	8080	93.2	130.7	5747.68	-1573.61	1747.22	2351.39	2.00	S 49.3 E	0.33
280	8090	93.5	130.7	5747.09	-1580.12	1754.79	2361.37	3.00	S 49.3 E	0.10
281	8100	93.0	131.1	5746.52	-1586.66	1762.33	2371.35	6.40	S 48.9 E	-0.09
282	8110	92.1	131.4	5746.08	-1593.24	1769.84	2381.34	9.49	S 48.6 E	-0.22
283	8120	91.7	131.9	5745.75	-1599.89	1777.31	2391.33	6.40	S 48.1 E	-0.28
284	8130	91.3	131.9	5745.49	-1606.56	1784.75	2401.33	4.00	S 48.1 E	-0.30
285	8140	90.8	132.0	5745.30	-1613.25	1792.19	2411.33	5.10	S 48.0 E	-0.31
286	8150	90.7	132.0	5745.17	-1619.94	1799.62	2421.33	1.00	S 48.0 E	-0.31
287	8160	90.5	131.9	5745.07	-1626.62	1807.06	2431.33	2.24	S 48.1 E	-0.31
288	8170	90.0	131.9	5745.02	-1633.30	1814.50	2441.33	5.00	S 48.1 E	-0.33
289	8180	89.5	131.8	5745.07	-1639.97	1821.95	2451.33	5.10	S 48.2 E	-0.36
290	8190	90.0	131.9	5745.11	-1646.64	1829.40	2461.33	5.10	S 48.1 E	-0.38
291	8200	90.9	132.1	5745.03	-1653.33	1836.83	2471.33	9.22	S 47.9 E	-0.38
292	8210	91.5	132.3	5744.82	-1660.05	1844.23	2481.32	6.32	S 47.7 E	-0.35
293	8220	91.7	132.5	5744.54	-1666.79	1851.62	2491.32	2.83	S 47.5 E	-0.28
294	8230	91.8	132.5	5744.24	-1673.54	1858.99	2501.31	1.00	S 47.5 E	-0.19
295	8240	91.8	132.7	5743.92	-1680.31	1866.34	2511.31	2.00	S 47.3 E	-0.09
296	8250	91.9	132.8	5743.60	-1687.09	1873.68	2521.30	1.41	S 47.2 E	0.04
297	8260	91.8	132.8	5743.28	-1693.88	1881.02	2531.30	1.00	S 47.2 E	0.18
298	8270	91.7	132.8	5742.97	-1700.67	1888.35	2541.29	1.00	S 47.2 E	0.32
299	8280	91.6	132.8	5742.68	-1707.47	1895.68	2551.29	1.00	S 47.2 E	0.46
300	8290	91.4	132.7	5742.42	-1714.25	1903.03	2561.28	2.24	S 47.3 E	0.59
301	8300	91.5	132.4	5742.17	-1721.01	1910.39	2571.28	3.16	S 47.6 E	0.69
302	8310	91.4	132.3	5741.92	-1727.75	1917.78	2581.27	1.41	S 47.7 E	0.75

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #2	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3512.52 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.01 East		TOTAL CORR.(-/+)	12.3
MINIMUM CURV	DATE: 03/20/98 TIME: 2:24 PM	TRUE TO GRID	

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
303	8320	91.3	132.1	5741.68	-1734.46	1925.18	2591.27	2.24	S 47.9 E	0.79
304	8330	91.0	132.1	5741.48	-1741.16	1932.60	2601.27	3.00	S 47.9 E	0.80
305	8340	91.1	132.1	5741.30	-1747.87	1940.02	2611.27	1.00	S 47.9 E	0.82
306	8350	91.0	132.1	5741.11	-1754.57	1947.44	2621.27	1.00	S 47.9 E	0.84
307	8360	91.1	131.9	5740.93	-1761.26	1954.87	2631.26	2.24	S 48.1 E	0.84
308	8370	91.3	131.7	5740.72	-1767.92	1962.32	2641.26	2.83	S 48.3 E	0.80
309	8380	91.6	131.7	5740.47	-1774.57	1969.79	2651.26	3.00	S 48.3 E	0.75
310	8390	92.4	131.8	5740.12	-1781.23	1977.24	2661.25	8.06	S 48.2 E	0.71
311	8400	92.8	131.9	5739.67	-1787.89	1984.68	2671.24	4.12	S 48.1 E	0.68
312	8410	93.1	131.8	5739.15	-1794.56	1992.12	2681.23	3.16	S 48.2 E	0.66
313	8420	93.4	131.6	5738.58	-1801.20	1999.58	2691.21	3.60	S 48.4 E	0.60
314	8430	93.9	131.2	5737.95	-1807.80	2007.06	2701.19	6.40	S 48.8 E	0.50
315	8440	93.6	130.9	5737.29	-1814.35	2014.59	2711.17	4.24	S 49.1 E	0.34
316	8450	92.4	130.8	5736.77	-1820.88	2022.14	2721.15	12.04	S 49.2 E	0.13
317	8460	91.5	130.8	5736.43	-1827.41	2029.71	2731.14	9.00	S 49.2 E	-0.07
318	8470	91.0	130.8	5736.21	-1833.95	2037.28	2741.14	5.00	S 49.2 E	-0.28
319	8480	91.0	130.6	5736.04	-1840.47	2044.86	2751.14	2.00	S 49.4 E	-0.51
320	8490	91.1	130.4	5735.85	-1846.96	2052.46	2761.13	2.24	S 49.6 E	-0.77
321	8500	91.2	130.4	5735.65	-1853.44	2060.07	2771.13	1.00	S 49.6 E	-1.05
322	8510	90.2	130.7	5735.53	-1859.94	2067.67	2781.12	10.44	S 49.3 E	-1.30
323	8520	89.5	131.1	5735.56	-1866.49	2075.23	2791.12	8.06	S 48.9 E	-1.50
324	8530	89.2	131.2	5735.67	-1873.07	2082.76	2801.12	3.16	S 48.8 E	-1.64
325	8540	89.3	131.1	5735.80	-1879.65	2090.29	2811.12	1.41	S 48.9 E	-1.79
326	8550	89.1	130.9	5735.94	-1886.21	2097.83	2821.11	2.83	S 49.1 E	-1.97
327	8560	88.9	130.9	5736.12	-1892.75	2105.39	2831.11	2.00	S 49.1 E	-2.16
328	8570	88.1	130.8	5736.38	-1899.29	2112.95	2841.10	8.06	S 49.2 E	-2.36
329	8580	87.0	131.0	5736.80	-1905.83	2120.50	2851.09	11.18	S 49.0 E	-2.55
330	8590	86.6	131.0	5737.36	-1912.38	2128.04	2861.08	4.00	S 49.0 E	-2.72
331	8600	86.7	131.0	5737.95	-1918.93	2135.57	2871.06	1.00	S 49.0 E	-2.90
332	8610	86.7	131.2	5738.52	-1925.50	2143.10	2881.04	2.00	S 48.8 E	-3.06
333	8620	86.6	131.3	5739.11	-1932.08	2150.60	2891.02	1.41	S 48.7 E	-3.19
334	8630	86.4	131.3	5739.72	-1938.67	2158.10	2901.00	2.00	S 48.7 E	-3.31
335	8640	86.0	131.1	5740.38	-1945.24	2165.61	2910.98	4.47	S 48.9 E	-3.45
336	8650	85.1	130.7	5741.16	-1951.77	2173.14	2920.95	9.84	S 49.3 E	-3.64
337	8660	85.3	130.7	5741.99	-1958.26	2180.70	2930.91	2.00	S 49.3 E	-3.86
338	8670	86.2	130.9	5742.73	-1964.78	2188.25	2940.88	9.22	S 49.1 E	-4.07
339	8680	87.2	131.1	5743.31	-1971.33	2195.78	2950.86	10.20	S 48.9 E	-4.25
340	8690	87.9	131.4	5743.74	-1977.92	2203.29	2960.85	7.61	S 48.6 E	-4.38
341	8700	88.4	132.0	5744.06	-1984.57	2210.76	2970.85	7.81	S 48.0 E	-4.43
342	8710	88.8	132.4	5744.30	-1991.28	2218.16	2980.84	5.66	S 47.6 E	-4.40
343	8720	88.9	132.5	5744.51	-1998.03	2225.54	2990.84	1.41	S 47.5 E	-4.32

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #2	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3512.52 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.01 East		TOTAL CORR.(-/+)	12.3
MINIMUM CURV DATE: 03/20/98	TIME: 2:24 PM	TRUE TO GRID	

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
344	8730	89.1	132.5	5744.68	-2004.78	2232.91	3000.84	2.00	S 47.5 E	-4.23
345	8740	89.1	132.5	5744.84	-2011.54	2240.28	3010.84	0.00	S 47.5 E	-4.14
346	8750	89.2	132.4	5744.99	-2018.29	2247.66	3020.84	1.41	S 47.6 E	-4.06
347	8760	89.2	132.3	5745.12	-2025.02	2255.05	3030.83	1.00	S 47.7 E	-4.00
348	8770	89.2	132.1	5745.26	-2031.74	2262.46	3040.83	2.00	S 47.9 E	-3.97
349	8780	89.5	132.0	5745.38	-2038.44	2269.88	3050.83	3.16	S 48.0 E	-3.96
350	8790	90.3	132.9	5745.40	-2045.19	2277.26	3060.83	12.04	S 47.1 E	-3.88
351	8800	90.6	133.3	5745.32	-2052.02	2284.56	3070.83	5.00	S 46.7 E	-3.69
352	8810	90.6	133.5	5745.21	-2058.89	2291.83	3080.83	2.00	S 46.5 E	-3.44
353	8820	90.5	133.3	5745.12	-2065.76	2299.09	3090.82	2.24	S 46.7 E	-3.20
354	8830	90.3	133.3	5745.05	-2072.62	2306.37	3100.82	2.00	S 46.7 E	-2.97
355	8840	90.1	133.4	5745.01	-2079.48	2313.64	3110.82	2.24	S 46.6 E	-2.74
356	8850	89.6	133.2	5745.04	-2086.34	2320.92	3120.81	5.39	S 46.8 E	-2.51
357	8860	88.9	132.9	5745.17	-2093.17	2328.23	3130.81	7.62	S 47.1 E	-2.33
358	8870	87.7	132.9	5745.47	-2099.97	2335.55	3140.81	12.00	S 47.1 E	-2.17
359	8880	87.7	132.9	5745.87	-2106.77	2342.87	3150.80	0.00	S 47.1 E	-2.01
360	8890	88.1	133.2	5746.23	-2113.59	2350.17	3160.79	5.00	S 46.8 E	-1.83
361	8900	88.5	133.6	5746.53	-2120.46	2357.43	3170.78	5.66	S 46.4 E	-1.58
362	8910	88.8	133.8	5746.77	-2127.37	2364.66	3180.77	3.61	S 46.2 E	-1.29
363	8920	89.1	133.7	5746.95	-2134.28	2371.88	3190.77	3.16	S 46.3 E	-0.98
364	8930	89.1	133.3	5747.11	-2141.17	2379.14	3200.76	4.00	S 46.7 E	-0.72
365	8940	89.1	133.4	5747.26	-2148.03	2386.41	3210.76	1.00	S 46.6 E	-0.48
366	8950	90.0	133.3	5747.34	-2154.89	2393.68	3220.76	9.06	S 46.7 E	-0.25
367	8960	90.8	133.3	5747.27	-2161.75	2400.96	3230.75	8.00	S 46.7 E	-0.02
368	8970	91.3	133.5	5747.09	-2168.62	2408.22	3240.75	5.39	S 46.5 E	0.22
369	8980	91.6	133.6	5746.84	-2175.51	2415.47	3250.74	3.16	S 46.4 E	0.49
370	8990	91.7	133.8	5746.55	-2182.42	2422.69	3260.73	2.24	S 46.2 E	0.79
371	9000	91.8	133.8	5746.24	-2189.33	2429.91	3270.72	1.00	S 46.2 E	1.10
372	9010	91.7	133.7	5745.94	-2196.25	2437.13	3280.71	1.41	S 46.3 E	1.41
373	9020	91.8	133.5	5745.63	-2203.14	2444.37	3290.70	2.24	S 46.5 E	1.69
374	9030	91.7	133.4	5745.33	-2210.01	2451.62	3300.70	1.41	S 46.6 E	1.94
375	9040	91.7	133.3	5745.03	-2216.87	2458.89	3310.69	1.00	S 46.7 E	2.18
376	9050	91.7	133.5	5744.73	-2223.74	2466.15	3320.68	2.00	S 46.5 E	2.42
377	9060	91.9	133.6	5744.42	-2230.63	2473.40	3330.67	2.24	S 46.4 E	2.69
378	9070	92.0	133.2	5744.08	-2237.49	2480.66	3340.67	4.12	S 46.8 E	2.94
379	9080	92.3	132.3	5743.70	-2244.28	2488.00	3350.66	9.48	S 47.7 E	3.07
380	9090	92.7	131.9	5743.27	-2250.98	2495.41	3360.65	5.65	S 48.1 E	3.09
381	9100	92.9	131.6	5742.78	-2257.63	2502.86	3370.64	3.60	S 48.4 E	3.04
382	9110	92.5	131.3	5742.31	-2264.24	2510.35	3380.62	5.00	S 48.7 E	2.95
383	9120	91.3	130.8	5741.98	-2270.80	2517.89	3390.62	13.00	S 49.2 E	2.78
384	9130	90.3	130.4	5741.84	-2277.31	2525.48	3400.61	10.77	S 49.6 E	2.54

PHOENIX DRILLING SERVICES, INC.

HORIZONTAL WELL SURVEY REPORT

v1.00.01

OPERATOR:	TEXACO E & P, INC.	PHOENIX HORIZONTAL DRILLERS	
WELL:	Aneth Unit H #227 Leg #2	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:			
Tie in to Scientific Finder Gyro Survey @ 5538'.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3512.52 feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.01 East		TOTAL CORR.(-/+)	12.3
MINIMUM CURV	DATE: 03/20/98 TIME: 2:24 PM	TRUE TO GRID	

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	TARGET TRACKING TO CENTER RIGHT(+) LEFT(-)
385	9140	89.1	130.2	5741.89	-2283.78	2533.10	3410.61	12.17	S 49.8 E	2.24
386	9150	88.0	130.2	5742.14	-2290.23	2540.74	3420.60	11.00	S 49.8 E	1.93
387	9160	88.0	130.1	5742.49	-2296.67	2548.38	3430.59	1.00	S 49.9 E	1.60
388	9170	88.1	130.1	5742.83	-2303.11	2556.02	3440.58	1.00	S 49.9 E	1.27
389	9180	88.4	129.8	5743.14	-2309.53	2563.69	3450.57	4.24	S 50.2 E	0.91
390	9190	88.3	129.8	5743.42	-2315.93	2571.36	3460.55	1.00	S 50.2 E	0.53
391	9200	88.4	129.9	5743.71	-2322.33	2579.04	3470.54	1.41	S 50.1 E	0.16
392	9210	88.6	130.0	5743.97	-2328.75	2586.70	3480.53	2.24	S 50.0 E	-0.20
393	9217	88.9	130.2	5744.13	-2333.26	2592.06	3487.53	5.15	S 49.8 E	-0.43
394	9227	89.3	130.5	5744.28	-2339.73	2599.68	3497.52	5.15	S 49.5 E	-0.72
395	9242	90.0	130.9	5744.37	-2349.51	2611.05	3512.52	5.15	S 49.1 E	-1.06

HORIZONTAL WELL SURVEY REPORT

DIAMONDBACK DIRECTIONAL
A BWWC Company

v1.00.01

OPERATOR:	TEXACO E & P, INC.	DIAMOND BACK HORIZONTAL DRILLER	
WELL:	Aneth Unit H #227 Leg #3	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:	Sidetrack Point @ 5700' MD		
Tie in to Scientific Finder Gyro Survey @ 5500' MD.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3516.29 Feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.04 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURVATURE CALCULATIONS(SPE-3362) DATE: 03/30/98 TIME: 7:38 PM

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	TARGET TRACKING TO CENTER RIGHT(+) LEFT(-)
TIE	5500	1.5	344.1	5497.54	52.24	-77.18	-92.31	0.24	N 15.9 W	12.82
1	5541	1.7	109.5	5538.53	52.55	-76.75	-92.20	6.94	S 70.5 E	12.30
2	5545	2.8	118.2	5542.53	52.49	-76.61	-92.05	28.72	S 61.8 E	12.26
3	5550	4.4	121.4	5547.52	52.33	-76.34	-91.75	32.24	S 58.6 E	12.19
4	5555	6.2	123.6	5552.50	52.08	-75.95	-91.29	36.22	S 56.4 E	12.12
5	5560	8.1	124.3	5557.46	51.73	-75.44	-90.68	38.04	S 55.7 E	12.03
6	5565	10.0	123.7	5562.40	51.29	-74.78	-89.90	38.05	S 56.3 E	11.92
7	5570	12.1	123.2	5567.30	50.76	-73.98	-88.95	42.04	S 56.8 E	11.78
8	5575	14.1	122.6	5572.17	50.15	-73.03	-87.83	40.09	S 57.4 E	11.60
9	5580	16.1	122.1	5577.00	49.45	-71.93	-86.55	40.08	S 57.9 E	11.38
10	5585	18.1	121.5	5581.78	48.68	-70.68	-85.10	40.15	S 58.5 E	11.12
11	5590	20.0	121.0	5586.50	47.83	-69.29	-83.50	38.14	S 59.0 E	10.81
12	5595	22.3	120.4	5591.17	46.91	-67.74	-81.73	46.20	S 59.6 E	10.46
13	5600	24.4	119.9	5595.76	45.92	-66.02	-79.79	42.19	S 60.1 E	10.05
14	5605	26.3	119.3	5600.28	44.86	-64.16	-77.70	38.35	S 60.7 E	9.59
15	5610	27.9	116.4	5604.73	43.80	-62.15	-75.49	41.49	S 63.6 E	9.04
16	5615	29.9	114.3	5609.10	42.76	-59.96	-73.18	44.85	S 65.7 E	8.34
17	5620	31.4	111.9	5613.41	41.77	-57.62	-70.77	38.71	S 68.1 E	7.52
18	5625	33.1	109.3	5617.63	40.83	-55.12	-68.28	43.88	S 70.7 E	6.54
19	5630	34.7	106.4	5621.78	39.98	-52.47	-65.74	45.50	S 73.6 E	5.40
20	5635	36.4	104.5	5625.85	39.20	-49.66	-63.14	40.54	S 75.5 E	4.10
21	5640	38.0	103.9	5629.84	38.46	-46.73	-60.47	32.81	S 76.1 E	2.69
22	5645	39.6	104.5	5633.73	37.69	-43.70	-57.69	32.87	S 75.5 E	1.23
23	5650	41.0	106.3	5637.55	36.83	-40.58	-54.80	36.41	S 73.7 E	-0.22
24	5655	42.8	108.0	5641.27	35.85	-37.39	-51.77	42.56	S 72.0 E	-1.62
25	5660	44.3	109.6	5644.89	34.74	-34.13	-48.61	37.23	S 70.4 E	-2.98
26	5665	45.9	111.0	5648.42	33.51	-30.81	-45.32	37.65	S 69.0 E	-4.29
27	5670	47.4	112.3	5651.85	32.17	-27.43	-41.91	35.46	S 67.7 E	-5.55
28	5675	49.0	113.2	5655.18	30.72	-23.99	-38.39	34.70	S 66.8 E	-6.78
29	5680	50.9	114.3	5658.40	29.18	-20.49	-34.75	41.56	S 65.7 E	-7.98
30	5685	52.9	115.2	5661.49	27.53	-16.92	-31.00	42.43	S 64.8 E	-9.14
31	5690	54.7	116.5	5664.44	25.77	-13.29	-27.12	41.67	S 63.5 E	-10.27
32	5695	56.8	116.9	5667.25	23.92	-9.59	-23.13	42.52	S 63.1 E	-11.36
33	5700	55.0	116.8	5670.06	22.05	-5.90	-19.14	36.04	S 63.2 E	-12.44
34	5705	54.7	116.3	5672.94	20.22	-2.24	-15.20	10.14	S 63.7 E	-13.53
35	5710	54.9	115.8	5675.82	18.43	1.43	-11.27	9.10	S 64.2 E	-14.65
36	5715	55.4	115.9	5678.67	16.64	5.12	-7.33	10.13	S 64.1 E	-15.79

HORIZONTAL WELL SURVEY REPORT

DIAMONDBACK DIRECTIONAL
A BWWC Company

v1.00.01

OPERATOR:	TEXACO E & P, INC.	DIAMOND BACK HORIZONTAL DRILLER	
WELL:	Aneth Unit H #227 Leg #3	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:	Sidetrack Point @ 5700' MD		
Tie in to Scientific Finder Gyro Survey @ 5500' MD.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3516.29 Feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.04 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURVATURE CALCULATIONS(SPE-3362) DATE: 03/30/98 TIME: 7:38 PM

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
37	5720	55.9	115.8	5681.50	14.84	8.84	-3.36	10.14	S 64.2 E	-16.94
38	5725	56.4	115.6	5684.28	13.04	12.58	0.62	10.54	S 64.4 E	-18.10
39	5730	56.7	115.6	5687.04	11.23	16.34	4.63	6.00	S 64.4 E	-19.28
40	5735	56.9	115.8	5689.78	9.42	20.11	8.64	5.22	S 64.2 E	-20.46
41	5740	57.1	115.8	5692.50	7.59	23.88	12.67	4.00	S 64.2 E	-21.63
42	5745	57.5	115.9	5695.20	5.76	27.67	16.71	8.18	S 64.1 E	-22.80
43	5750	57.9	116.1	5697.87	3.91	31.47	20.77	8.69	S 63.9 E	-23.96
44	5755	58.4	116.0	5700.51	2.04	35.29	24.86	10.14	S 64.0 E	-25.13
45	5760	58.7	116.1	5703.12	0.17	39.12	28.96	6.24	S 63.9 E	-26.30
46	5765	59.2	115.9	5705.70	-1.71	42.97	33.08	10.57	S 64.1 E	-27.48
47	5770	59.8	115.8	5708.24	-3.59	46.84	37.21	12.12	S 64.2 E	-28.68
48	5775	60.8	115.9	5710.71	-5.48	50.75	41.39	20.08	S 64.1 E	-29.89
49	5780	61.8	115.9	5713.11	-7.40	54.70	45.60	20.00	S 64.1 E	-31.10
50	5785	62.9	116.1	5715.43	-9.34	58.68	49.86	22.28	S 63.9 E	-32.32
51	5790	63.9	116.2	5717.67	-11.31	62.69	54.16	20.08	S 63.8 E	-33.54
52	5795	65.0	116.6	5719.83	-13.31	66.73	58.50	23.15	S 63.4 E	-34.76
53	5800	66.2	116.8	5721.89	-15.36	70.80	62.89	24.27	S 63.2 E	-35.96
54	5805	67.3	117.0	5723.87	-17.44	74.90	67.33	22.30	S 63.0 E	-37.16
55	5810	68.4	117.4	5725.75	-19.56	79.02	71.81	23.21	S 62.6 E	-38.34
56	5815	69.3	117.9	5727.56	-21.72	83.15	76.32	20.27	S 62.1 E	-39.49
57	5820	70.4	118.4	5729.28	-23.93	87.29	80.88	23.92	S 61.6 E	-40.62
58	5830	72.1	119.6	5732.49	-28.53	95.57	90.11	20.45	S 60.4 E	-42.75
59	5840	73.9	120.8	5735.42	-33.34	103.83	99.47	21.35	S 59.2 E	-44.70
60	5850	75.6	122.3	5738.05	-38.38	112.05	108.96	22.33	S 57.7 E	-46.45
61	5860	77.2	123.6	5740.40	-43.67	120.21	118.55	20.39	S 56.4 E	-47.98
62	5870	79.2	124.9	5742.44	-49.18	128.30	128.25	23.70	S 55.1 E	-49.30
63	5880	81.1	126.0	5744.16	-54.89	136.32	138.04	21.87	S 54.0 E	-50.42
64	5890	83.0	127.1	5745.54	-60.79	144.28	147.90	21.90	S 52.9 E	-51.36
65	5900	85.4	127.4	5746.55	-66.81	152.20	157.81	24.18	S 52.6 E	-52.19
66	5910	87.5	127.5	5747.17	-72.88	160.12	167.76	21.02	S 52.5 E	-52.98
67	5920	88.7	127.2	5747.50	-78.95	168.07	177.72	12.37	S 52.8 E	-53.79
68	5930	89.1	127.2	5747.69	-84.99	176.03	187.69	4.00	S 52.8 E	-54.62
69	5940	89.8	127.3	5747.79	-91.04	183.99	197.65	7.07	S 52.7 E	-55.45
70	5950	90.5	127.4	5747.76	-97.11	191.94	207.62	7.07	S 52.6 E	-56.26
71	5960	91.1	127.6	5747.62	-103.20	199.87	217.59	6.32	S 52.4 E	-57.05
72	5970	91.3	128.3	5747.41	-109.34	207.75	227.56	7.28	S 51.7 E	-57.75
73	5980	90.9	129.4	5747.22	-115.62	215.54	237.54	11.70	S 50.6 E	-58.30

HORIZONTAL WELL SURVEY REPORT

DIAMONDBACK DIRECTIONAL
A BWWC Company

v1.00.01

OPERATOR:	TEXACO E & P, INC.	DIAMOND BACK HORIZONTAL DRILLER	
WELL:	Aneth Unit H #227 Leg #3	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:	Sidetrack Point @ 5700' MD		
Tie in to Scientific Finder Gyro Survey @ 5500' MD.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3516.29 Feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.04 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURVATURE CALCULATIONS(SPE-3362) DATE: 03/30/98 TIME: 7:38 PM

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
74	5990	90.0	131.2	5747.14	-122.08	223.17	247.54	20.12	S 48.8 E	-58.60
75	6000	89.1	132.9	5747.22	-128.78	230.59	257.54	19.23	S 47.1 E	-58.59
76	6010	88.4	133.9	5747.44	-135.65	237.86	267.53	12.20	S 46.1 E	-58.35
77	6020	87.7	134.7	5747.78	-142.63	245.01	277.52	10.63	S 45.3 E	-57.94
78	6030	88.0	135.3	5748.15	-149.70	252.07	287.50	6.70	S 44.7 E	-57.42
79	6040	88.3	135.4	5748.48	-156.81	259.10	297.47	3.16	S 44.6 E	-56.84
80	6050	88.4	135.5	5748.76	-163.93	266.11	307.45	1.41	S 44.5 E	-56.24
81	6060	88.9	135.5	5749.00	-171.06	273.12	317.43	5.00	S 44.5 E	-55.63
82	6070	89.3	135.3	5749.16	-178.18	280.14	327.41	4.47	S 44.7 E	-55.03
83	6080	90.1	135.0	5749.21	-185.27	287.19	337.39	8.54	S 45.0 E	-54.48
84	6090	90.2	135.0	5749.18	-192.34	294.26	347.38	1.00	S 45.0 E	-53.96
85	6100	89.4	135.0	5749.22	-199.41	301.33	357.37	8.00	S 45.0 E	-53.44
86	6110	89.1	135.1	5749.35	-206.49	308.40	367.35	3.16	S 44.9 E	-52.90
87	6120	89.2	135.2	5749.50	-213.58	315.45	377.34	1.41	S 44.8 E	-52.35
88	6130	88.3	135.2	5749.72	-220.67	322.49	387.32	9.00	S 44.8 E	-51.80
89	6140	87.6	135.1	5750.07	-227.76	329.54	397.30	7.07	S 44.9 E	-51.25
90	6150	87.6	135.0	5750.49	-234.83	336.60	407.27	1.00	S 45.0 E	-50.72
91	6160	87.8	134.9	5750.89	-241.89	343.67	417.25	2.24	S 45.1 E	-50.20
92	6170	88.0	134.8	5751.26	-248.93	350.76	427.23	2.24	S 45.2 E	-49.70
93	6180	88.3	134.6	5751.58	-255.96	357.86	437.22	3.60	S 45.4 E	-49.23
94	6190	88.6	134.6	5751.85	-262.98	364.98	447.20	3.00	S 45.4 E	-48.78
95	6200	89.0	134.7	5752.06	-270.01	372.09	457.19	4.12	S 45.3 E	-48.32
96	6210	89.6	134.6	5752.18	-277.04	379.21	467.18	6.08	S 45.4 E	-47.85
97	6220	89.1	134.7	5752.30	-284.06	386.32	477.17	5.10	S 45.3 E	-47.39
98	6230	88.2	134.8	5752.53	-291.10	393.42	487.15	9.06	S 45.2 E	-46.91
99	6240	88.2	134.9	5752.85	-298.15	400.50	497.14	1.00	S 45.1 E	-46.42
100	6250	88.2	134.8	5753.16	-305.20	407.59	507.12	1.00	S 45.2 E	-45.92
101	6260	88.3	134.7	5753.47	-312.24	414.69	517.10	1.41	S 45.3 E	-45.44
102	6270	87.9	134.6	5753.80	-319.26	421.80	527.09	4.12	S 45.4 E	-44.98
103	6280	87.1	134.6	5754.24	-326.28	428.91	537.07	8.00	S 45.4 E	-44.52
104	6290	86.3	135.0	5754.81	-333.31	436.00	547.04	8.94	S 45.0 E	-44.04
105	6300	86.2	135.1	5755.46	-340.37	443.05	557.00	1.41	S 44.9 E	-43.50
106	6310	86.4	135.1	5756.11	-347.44	450.09	566.97	2.00	S 44.9 E	-42.96
107	6320	86.7	135.0	5756.71	-354.50	457.14	576.93	3.16	S 45.0 E	-42.43
108	6330	86.6	134.7	5757.30	-361.55	464.22	586.90	3.16	S 45.3 E	-41.94
109	6340	86.3	134.5	5757.92	-368.55	471.33	596.87	3.60	S 45.5 E	-41.48
110	6350	86.0	134.5	5758.59	-375.55	478.44	606.84	3.00	S 45.5 E	-41.05

HORIZONTAL WELL SURVEY REPORT

DIAMONDBACK DIRECTIONAL
A BWC Company

v1.00.01

OPERATOR:	TEXACO E & P, INC.	DIAMOND BACK HORIZONTAL DRILLER	
WELL:	Aneth Unit H #227 Leg #3	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:	Sidetrack Point @ 5700' MD		
Tie in to Scientific Finder Gyro Survey @ 5500' MD.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3516.29 Feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.04 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURVATURE CALCULATIONS(SPE-3362) DATE: 03/30/98 TIME: 7:38 PM

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
111	6360	85.3	134.6	5759.35	-382.54	485.55	616.80	7.07	S 45.4 E	-40.60
112	6370	85.1	134.5	5760.18	-389.53	492.65	626.76	2.23	S 45.5 E	-40.16
113	6380	85.6	134.7	5760.99	-396.53	499.75	636.72	5.38	S 45.3 E	-39.71
114	6390	86.9	134.9	5761.65	-403.56	506.83	646.68	13.15	S 45.1 E	-39.22
115	6400	88.1	135.4	5762.08	-410.64	513.87	656.66	13.00	S 44.6 E	-38.67
116	6410	89.6	135.9	5762.28	-417.79	520.86	666.63	15.81	S 44.1 E	-38.04
117	6420	90.6	136.0	5762.27	-424.98	527.81	676.61	10.05	S 44.0 E	-37.35
118	6430	90.6	136.2	5762.16	-432.19	534.75	686.58	2.00	S 43.8 E	-36.63
119	6440	90.7	136.3	5762.05	-439.41	541.66	696.56	1.41	S 43.7 E	-35.89
120	6450	90.4	136.3	5761.95	-446.64	548.57	706.53	3.00	S 43.7 E	-35.14
121	6460	89.6	136.4	5761.95	-453.87	555.47	716.50	8.06	S 43.6 E	-34.38
122	6470	89.2	136.4	5762.06	-461.12	562.37	726.47	4.00	S 43.6 E	-33.61
123	6480	88.7	136.3	5762.24	-468.35	569.27	736.44	5.10	S 43.7 E	-32.86
124	6490	88.2	136.1	5762.51	-475.57	576.19	746.41	5.38	S 43.9 E	-32.12
125	6500	88.1	136.2	5762.83	-482.77	583.11	756.38	1.41	S 43.8 E	-31.40
126	6510	88.9	136.3	5763.10	-489.99	590.03	766.35	8.06	S 43.7 E	-30.66
127	6520	89.3	136.2	5763.25	-497.22	596.94	776.32	4.12	S 43.8 E	-29.92
128	6530	89.7	136.4	5763.34	-504.45	603.85	786.29	4.47	S 43.6 E	-29.17
129	6540	90.4	136.3	5763.33	-511.68	610.75	796.26	7.07	S 43.7 E	-28.41
130	6550	90.7	136.2	5763.23	-518.90	617.67	806.23	3.16	S 43.8 E	-27.67
131	6560	90.9	136.1	5763.10	-526.12	624.59	816.20	2.24	S 43.9 E	-26.95
132	6570	90.9	135.6	5762.94	-533.29	631.56	826.18	5.00	S 44.4 E	-26.27
133	6580	90.6	135.2	5762.81	-540.41	638.58	836.16	5.00	S 44.8 E	-25.68
134	6590	89.7	135.0	5762.78	-547.49	645.64	846.15	9.22	S 45.0 E	-25.14
135	6600	88.9	134.8	5762.90	-554.55	652.72	856.13	8.25	S 45.2 E	-24.63
136	6610	88.3	134.8	5763.15	-561.60	659.81	866.12	6.00	S 45.2 E	-24.15
137	6620	88.2	134.6	5763.45	-568.63	666.92	876.10	2.24	S 45.4 E	-23.67
138	6630	88.7	134.6	5763.72	-575.64	674.04	886.09	5.00	S 45.4 E	-23.22
139	6640	89.2	134.9	5763.91	-582.68	681.14	896.08	5.83	S 45.1 E	-22.74
140	6650	89.3	135.0	5764.04	-589.75	688.21	906.06	1.41	S 45.0 E	-22.23
141	6660	89.6	135.1	5764.13	-596.83	695.28	916.05	3.16	S 44.9 E	-21.69
142	6670	89.8	135.2	5764.19	-603.91	702.33	926.03	2.24	S 44.8 E	-21.14
143	6680	89.7	135.1	5764.23	-611.00	709.38	936.02	1.41	S 44.9 E	-20.59
144	6690	89.5	134.8	5764.30	-618.07	716.46	946.00	3.61	S 45.2 E	-20.08
145	6700	89.1	134.6	5764.42	-625.10	723.57	955.99	4.47	S 45.4 E	-19.61
146	6710	88.7	134.6	5764.61	-632.12	730.69	965.98	4.00	S 45.4 E	-19.16
147	6720	88.7	134.5	5764.84	-639.14	737.81	975.97	1.00	S 45.5 E	-18.71

HORIZONTAL WELL SURVEY REPORT

DIAMONDBACK DIRECTIONAL
A BWWC COMPANY

v1.00.01

OPERATOR:	TEXACO E & P, INC.	DIAMOND BACK HORIZONTAL DRILLER	
WELL:	Aneth Unit H #227 Leg #3	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:	Sidetrack Point @ 5700' MD		
Tie in to Scientific Finder Gyro Survey @ 5500' MD.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3516.29 Feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.04 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURVATURE CALCULATIONS(SPE-3362) DATE: 03/30/98 TIME: 7:38 PM

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
148	6730	88.6	134.5	5765.08	-646.14	744.94	985.95	1.00	S 45.5 E	-18.27
149	6740	88.5	134.5	5765.33	-653.15	752.07	995.94	1.00	S 45.5 E	-17.84
150	6750	88.7	134.8	5765.57	-660.18	759.18	1005.93	3.60	S 45.2 E	-17.38
151	6760	89.4	135.1	5765.74	-667.24	766.26	1015.91	7.62	S 44.9 E	-16.86
152	6770	90.2	135.2	5765.77	-674.33	773.31	1025.90	8.06	S 44.8 E	-16.31
153	6780	90.3	135.3	5765.73	-681.43	780.35	1035.88	1.41	S 44.7 E	-15.74
154	6790	90.3	135.1	5765.68	-688.53	787.40	1045.87	2.00	S 44.9 E	-15.19
155	6800	90.3	135.2	5765.63	-695.62	794.45	1055.85	1.00	S 44.8 E	-14.64
156	6810	90.5	135.3	5765.56	-702.72	801.49	1065.83	2.24	S 44.7 E	-14.07
157	6820	90.9	135.3	5765.43	-709.82	808.52	1075.82	4.00	S 44.7 E	-13.49
158	6830	91.8	135.6	5765.20	-716.95	815.54	1085.80	9.49	S 44.4 E	-12.89
159	6840	92.3	135.5	5764.84	-724.08	822.54	1095.77	5.10	S 44.5 E	-12.27
160	6850	91.7	135.1	5764.49	-731.19	829.57	1105.75	7.21	S 44.9 E	-11.70
161	6860	90.6	134.6	5764.29	-738.24	836.65	1115.73	12.08	S 45.4 E	-11.20
162	6870	90.2	134.5	5764.22	-745.25	843.78	1125.72	4.12	S 45.5 E	-10.76
163	6880	89.5	134.1	5764.25	-752.24	850.94	1135.71	8.06	S 45.9 E	-10.35
164	6890	89.0	133.7	5764.38	-759.17	858.14	1145.71	6.40	S 46.3 E	-10.02
165	6900	89.0	133.7	5764.55	-766.08	865.37	1155.70	0.00	S 46.3 E	-9.73
166	6910	89.2	133.6	5764.71	-772.98	872.61	1165.70	2.24	S 46.4 E	-9.44
167	6920	89.4	133.8	5764.83	-779.89	879.83	1175.69	2.83	S 46.2 E	-9.14
168	6930	89.9	133.9	5764.89	-786.82	887.05	1185.69	5.10	S 46.1 E	-8.82
169	6940	90.1	134.1	5764.89	-793.76	894.24	1195.68	2.83	S 45.9 E	-8.47
170	6950	89.7	134.0	5764.91	-800.72	901.43	1205.67	4.12	S 46.0 E	-8.11
171	6960	89.8	133.7	5764.95	-807.64	908.64	1215.67	3.16	S 46.3 E	-7.79
172	6970	89.0	133.4	5765.06	-814.53	915.89	1225.66	8.54	S 46.6 E	-7.52
173	6980	88.2	133.2	5765.30	-821.39	923.16	1235.66	8.25	S 46.8 E	-7.29
174	6990	88.1	133.1	5765.63	-828.22	930.45	1245.65	1.41	S 46.9 E	-7.09
175	7000	88.5	133.2	5765.92	-835.06	937.75	1255.64	4.12	S 46.8 E	-6.89
176	7010	88.5	133.1	5766.18	-841.90	945.04	1265.64	1.00	S 46.9 E	-6.69
177	7020	88.2	132.9	5766.47	-848.71	952.35	1275.63	3.61	S 47.1 E	-6.51
178	7030	88.2	132.7	5766.79	-855.50	959.68	1285.63	2.00	S 47.3 E	-6.37
179	7040	88.4	132.7	5767.08	-862.28	967.03	1295.62	2.00	S 47.3 E	-6.25
180	7050	88.9	132.6	5767.32	-869.06	974.38	1305.62	5.10	S 47.4 E	-6.14
181	7060	89.4	132.9	5767.47	-875.84	981.72	1315.62	5.83	S 47.1 E	-6.01
182	7070	89.7	132.9	5767.55	-882.65	989.05	1325.62	3.00	S 47.1 E	-5.85
183	7080	89.9	132.8	5767.58	-889.45	996.38	1335.61	2.24	S 47.2 E	-5.70
184	7090	90.4	132.7	5767.55	-896.24	1003.72	1345.61	5.10	S 47.3 E	-5.57

HORIZONTAL WELL SURVEY REPORT

DIAMONDBACK DIRECTIONAL
A BWC Company

v1.00.01

OPERATOR:	TEXACO E & P, INC.	DIAMOND BACK HORIZONTAL DRILLER	
WELL:	Aneth Unit H #227 Leg #3	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:	Sidetrack Point @ 5700' MD		
Tie in to Scientific Finder Gyro Survey @ 5500' MD.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3516.29 Feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.04 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURVATURE CALCULATIONS(SPE-3362) DATE: 03/30/98 TIME: 7:38 PM

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
185	7100	89.9	132.6	5767.53	-903.01	1011.08	1355.61	5.10	S 47.4 E	-5.46
186	7110	88.3	132.8	5767.69	-909.80	1018.43	1365.61	16.12	S 47.2 E	-5.33
187	7120	87.7	132.8	5768.03	-916.59	1025.76	1375.60	6.00	S 47.2 E	-5.20
188	7130	87.7	133.1	5768.44	-923.39	1033.07	1385.59	3.00	S 46.9 E	-5.03
189	7140	88.0	133.2	5768.81	-930.23	1040.36	1395.58	3.16	S 46.8 E	-4.83
190	7150	88.3	133.3	5769.13	-937.08	1047.64	1405.58	3.16	S 46.7 E	-4.61
191	7160	88.6	133.3	5769.40	-943.93	1054.92	1415.57	3.00	S 46.7 E	-4.38
192	7170	89.0	133.3	5769.61	-950.79	1062.19	1425.57	4.00	S 46.7 E	-4.16
193	7180	89.4	133.2	5769.75	-957.64	1069.48	1435.56	4.12	S 46.8 E	-3.94
194	7190	88.8	133.0	5769.91	-964.47	1076.78	1445.56	6.32	S 47.0 E	-3.75
195	7200	87.2	132.3	5770.26	-971.24	1084.13	1455.55	17.46	S 47.7 E	-3.63
196	7210	86.5	132.1	5770.81	-977.95	1091.53	1465.54	7.28	S 47.9 E	-3.60
197	7220	86.4	132.1	5771.43	-984.64	1098.93	1475.52	1.00	S 47.9 E	-3.58
198	7230	86.1	132.2	5772.08	-991.34	1106.33	1485.50	3.16	S 47.8 E	-3.55
199	7240	85.9	132.2	5772.78	-998.04	1113.72	1495.47	2.00	S 47.8 E	-3.52
200	7250	86.1	132.4	5773.48	-1004.75	1121.10	1505.45	2.82	S 47.6 E	-3.47
201	7260	86.7	132.7	5774.10	-1011.50	1128.45	1515.43	6.71	S 47.3 E	-3.37
202	7270	87.1	133.0	5774.65	-1018.29	1135.77	1525.41	5.00	S 47.0 E	-3.22
203	7280	87.4	133.1	5775.13	-1025.11	1143.07	1535.40	3.16	S 46.9 E	-3.04
204	7290	88.0	133.2	5775.53	-1031.94	1150.36	1545.39	6.08	S 46.8 E	-2.84
205	7300	88.2	133.2	5775.86	-1038.79	1157.64	1555.38	2.00	S 46.8 E	-2.63
206	7310	88.4	133.2	5776.15	-1045.63	1164.93	1565.37	2.00	S 46.8 E	-2.42
207	7320	89.1	133.4	5776.37	-1052.48	1172.21	1575.37	7.28	S 46.6 E	-2.19
208	7330	89.3	133.4	5776.51	-1059.35	1179.47	1585.36	2.00	S 46.6 E	-1.95
209	7340	89.1	133.4	5776.65	-1066.22	1186.74	1595.36	2.00	S 46.6 E	-1.70
210	7350	89.3	133.7	5776.79	-1073.11	1193.98	1605.36	3.61	S 46.3 E	-1.43
211	7360	89.8	133.8	5776.87	-1080.03	1201.21	1615.35	5.10	S 46.2 E	-1.13
212	7370	89.9	134.0	5776.90	-1086.96	1208.41	1625.35	2.24	S 46.0 E	-0.80
213	7380	89.8	134.1	5776.92	-1093.92	1215.60	1635.34	1.41	S 45.9 E	-0.44
214	7390	89.9	134.2	5776.95	-1100.88	1222.78	1645.33	1.41	S 45.8 E	-0.06
215	7400	90.3	134.6	5776.93	-1107.88	1229.92	1655.32	5.66	S 45.4 E	0.36
216	7410	89.9	133.9	5776.91	-1114.86	1237.08	1665.32	8.06	S 46.1 E	0.75
217	7420	88.7	133.2	5777.04	-1121.74	1244.33	1675.31	13.89	S 46.8 E	1.02
218	7430	88.3	132.9	5777.30	-1128.57	1251.63	1685.31	5.00	S 47.1 E	1.20
219	7440	88.2	132.8	5777.60	-1135.37	1258.96	1695.30	1.41	S 47.2 E	1.35
220	7450	88.3	133.0	5777.91	-1142.17	1266.28	1705.29	2.24	S 47.0 E	1.51
221	7460	88.5	133.1	5778.19	-1148.99	1273.59	1715.29	2.24	S 46.9 E	1.69

HORIZONTAL WELL SURVEY REPORT

DIAMONDBACK DIRECTIONAL
A BWWC Company

v1.00.01

OPERATOR:	TEXACO E & P, INC.	DIAMOND BACK HORIZONTAL DRILLER	
WELL:	Aneth Unit H #227 Leg #3	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:	Sidetrack Point @ 5700' MD		
Tie in to Scientific Finder Gyro Survey @ 5500' MD.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3516.29 Feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.04 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURVATURE CALCULATIONS(SPE-3362) DATE: 03/30/98 TIME: 7:38 PM

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
222	7470	88.3	132.5	5778.47	-1155.79	1280.92	1725.28	6.32	S 47.5 E	1.83
223	7480	88.1	132.0	5778.78	-1162.51	1288.32	1735.28	5.38	S 48.0 E	1.87
224	7490	87.8	131.5	5779.14	-1169.16	1295.78	1745.27	5.83	S 48.5 E	1.83
225	7500	87.8	131.5	5779.52	-1175.78	1303.26	1755.26	0.00	S 48.5 E	1.74
226	7510	88.0	131.7	5779.89	-1182.42	1310.74	1765.26	2.83	S 48.3 E	1.67
227	7520	88.2	131.6	5780.22	-1189.06	1318.20	1775.25	2.24	S 48.4 E	1.61
228	7530	88.3	131.7	5780.53	-1195.70	1325.67	1785.25	1.41	S 48.3 E	1.55
229	7540	88.4	131.6	5780.81	-1202.34	1333.14	1795.24	1.41	S 48.4 E	1.49
230	7550	88.2	131.8	5781.11	-1208.99	1340.60	1805.24	2.83	S 48.2 E	1.44
231	7560	88.2	131.7	5781.43	-1215.65	1348.06	1815.23	1.00	S 48.3 E	1.40
232	7570	88.6	131.8	5781.70	-1222.31	1355.52	1825.23	4.12	S 48.2 E	1.35
233	7580	88.9	131.8	5781.92	-1228.97	1362.97	1835.23	3.00	S 48.2 E	1.32
234	7590	89.1	131.8	5782.10	-1235.63	1370.43	1845.22	2.00	S 48.2 E	1.28
235	7600	89.1	131.7	5782.25	-1242.29	1377.88	1855.22	1.00	S 48.3 E	1.24
236	7610	89.0	131.4	5782.42	-1248.92	1385.37	1865.22	3.16	S 48.6 E	1.16
237	7620	89.0	131.7	5782.59	-1255.56	1392.85	1875.22	3.00	S 48.3 E	1.08
238	7630	89.4	131.6	5782.73	-1262.20	1400.32	1885.22	4.12	S 48.4 E	1.02
239	7640	89.9	131.6	5782.80	-1268.84	1407.80	1895.22	5.00	S 48.4 E	0.95
240	7650	89.9	131.4	5782.81	-1275.47	1415.29	1905.22	2.00	S 48.6 E	0.86
241	7660	89.7	131.3	5782.85	-1282.07	1422.80	1915.22	2.24	S 48.7 E	0.75
242	7670	89.6	131.0	5782.91	-1288.65	1430.33	1925.22	3.16	S 49.0 E	0.60
243	7680	89.4	130.6	5783.00	-1295.19	1437.90	1935.21	4.47	S 49.4 E	0.39
244	7690	89.8	130.4	5783.07	-1301.68	1445.50	1945.21	4.47	S 49.6 E	0.13
245	7700	90.4	130.1	5783.05	-1308.14	1453.13	1955.20	6.71	S 49.9 E	-0.17
246	7710	90.8	130.0	5782.94	-1314.58	1460.79	1965.20	4.12	S 50.0 E	-0.51
247	7720	91.0	129.8	5782.79	-1320.99	1468.46	1975.19	2.83	S 50.2 E	-0.88
248	7730	90.9	129.7	5782.62	-1327.38	1476.14	1985.18	1.41	S 50.3 E	-1.27
249	7740	90.6	129.8	5782.49	-1333.78	1483.83	1995.17	3.16	S 50.2 E	-1.66
250	7750	90.6	129.8	5782.38	-1340.18	1491.51	2005.16	0.00	S 50.2 E	-2.05
251	7760	90.4	130.5	5782.30	-1346.63	1499.16	2015.16	7.28	S 49.5 E	-2.37
252	7770	90.3	131.3	5782.24	-1353.17	1506.72	2025.16	8.06	S 48.7 E	-2.56
253	7780	90.5	131.2	5782.17	-1359.77	1514.23	2035.16	2.24	S 48.8 E	-2.69
254	7790	90.6	131.0	5782.07	-1366.34	1521.77	2045.15	2.24	S 49.0 E	-2.85
255	7800	90.6	130.5	5781.97	-1372.87	1529.34	2055.15	5.00	S 49.5 E	-3.07
256	7810	90.6	130.2	5781.86	-1379.34	1536.96	2065.15	3.00	S 49.8 E	-3.36
257	7820	89.7	130.0	5781.84	-1385.78	1544.61	2075.14	9.22	S 50.0 E	-3.69
258	7830	88.9	129.9	5781.96	-1392.20	1552.28	2085.13	8.06	S 50.1 E	-4.05
259	7840	88.8	129.6	5782.16	-1398.60	1559.97	2095.12	3.16	S 50.4 E	-4.44
260	7850	88.7	129.5	5782.38	-1404.96	1567.68	2105.11	1.41	S 50.5 E	-4.87
261	7860	88.5	129.3	5782.62	-1411.31	1575.40	2115.10	2.83	S 50.7 E	-5.32

HORIZONTAL WELL SURVEY REPORT

DIAMONDBACK DIRECTIONAL
A BWWC Company

v1.00.01

OPERATOR:	TEXACO E & P, INC.	DIAMOND BACK HORIZONTAL DRILLER	
WELL:	Aneth Unit H #227 Leg #3	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:	Sidetrack Point @ 5700' MD		
Tie in to Scientific Finder Gyro Survey @ 5500' MD.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3516.29 Feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.04 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURVATURE CALCULATIONS(SPE-3362) DATE: 03/30/98 TIME: 7:38 PM

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
262	7870	88.3	129.6	5782.90	-1417.66	1583.12	2125.09	3.60	S 50.4 E	-5.76
263	7880	88.3	129.8	5783.20	-1424.04	1590.81	2135.07	2.00	S 50.2 E	-6.16
264	7890	88.9	130.2	5783.44	-1430.47	1598.47	2145.06	7.21	S 49.8 E	-6.51
265	7900	89.3	130.7	5783.60	-1436.96	1606.08	2155.06	6.40	S 49.3 E	-6.78
266	7910	89.2	130.9	5783.73	-1443.49	1613.65	2165.06	2.24	S 49.1 E	-6.99
267	7920	89.0	130.9	5783.89	-1450.04	1621.20	2175.05	2.00	S 49.1 E	-7.18
268	7930	88.8	130.8	5784.08	-1456.58	1628.77	2185.05	2.24	S 49.2 E	-7.39
269	7940	89.1	131.2	5784.26	-1463.14	1636.31	2195.05	5.00	S 48.8 E	-7.56
270	7950	89.6	131.7	5784.37	-1469.75	1643.81	2205.04	7.07	S 48.3 E	-7.66
271	7960	89.8	132.0	5784.43	-1476.43	1651.26	2215.04	3.61	S 48.0 E	-7.68
272	7970	89.8	132.2	5784.46	-1483.13	1658.68	2225.04	2.00	S 47.8 E	-7.66
273	7980	89.8	132.4	5784.50	-1489.86	1666.07	2235.04	2.00	S 47.6 E	-7.61
274	7990	89.8	132.5	5784.53	-1496.61	1673.45	2245.04	1.00	S 47.5 E	-7.53
275	8000	90.0	132.5	5784.55	-1503.37	1680.82	2255.04	2.00	S 47.5 E	-7.45
276	8010	90.4	132.9	5784.51	-1510.15	1688.17	2265.04	5.66	S 47.1 E	-7.32
277	8020	90.7	132.6	5784.42	-1516.94	1695.51	2275.04	4.24	S 47.4 E	-7.19
278	8030	90.5	132.4	5784.31	-1523.69	1702.89	2285.04	2.83	S 47.6 E	-7.10
279	8040	90.3	132.2	5784.24	-1530.42	1710.28	2295.04	2.83	S 47.8 E	-7.05
280	8050	90.0	132.2	5784.22	-1537.14	1717.69	2305.04	3.00	S 47.8 E	-7.02
281	8060	89.9	131.8	5784.23	-1543.83	1725.12	2315.04	4.12	S 48.2 E	-7.02
282	8070	90.3	132.1	5784.21	-1550.51	1732.56	2325.04	5.00	S 47.9 E	-7.03
283	8080	90.9	132.5	5784.10	-1557.24	1739.96	2335.04	7.21	S 47.5 E	-6.97
284	8090	90.9	132.6	5783.95	-1564.01	1747.32	2345.04	1.00	S 47.4 E	-6.88
285	8100	91.1	133.2	5783.77	-1570.81	1754.65	2355.03	6.32	S 46.8 E	-6.72
286	8110	91.5	133.8	5783.55	-1577.69	1761.90	2365.03	7.21	S 46.2 E	-6.46
287	8120	91.8	133.9	5783.26	-1584.62	1769.11	2375.02	3.16	S 46.1 E	-6.14
288	8130	91.6	133.9	5782.96	-1591.55	1776.31	2385.01	2.00	S 46.1 E	-5.80
289	8140	91.4	134.0	5782.70	-1598.49	1783.51	2395.00	2.24	S 46.0 E	-5.46
290	8150	91.1	134.0	5782.48	-1605.43	1790.70	2404.99	3.00	S 46.0 E	-5.11
291	8160	91.0	133.7	5782.30	-1612.36	1797.91	2414.98	3.16	S 46.3 E	-4.79
292	8170	90.9	133.7	5782.13	-1619.27	1805.14	2424.98	1.00	S 46.3 E	-4.49
293	8180	90.8	134.1	5781.98	-1626.20	1812.34	2434.97	4.12	S 45.9 E	-4.16
294	8190	91.1	134.4	5781.82	-1633.18	1819.50	2444.96	4.24	S 45.6 E	-3.77
295	8200	91.9	134.7	5781.56	-1640.19	1826.63	2454.95	8.54	S 45.3 E	-3.33
296	8210	91.7	134.9	5781.24	-1647.23	1833.72	2464.93	2.83	S 45.1 E	-2.84
297	8220	91.8	134.9	5780.94	-1654.29	1840.80	2474.92	1.00	S 45.1 E	-2.33
298	8230	91.9	134.8	5780.61	-1661.34	1847.89	2484.90	1.41	S 45.2 E	-1.83
299	8240	92.0	134.6	5780.27	-1668.37	1854.99	2494.88	2.24	S 45.4 E	-1.36
300	8250	92.2	134.7	5779.91	-1675.39	1862.10	2504.86	2.24	S 45.3 E	-0.90
301	8260	92.4	134.9	5779.51	-1682.43	1869.19	2514.84	2.83	S 45.1 E	-0.41
302	8270	92.8	135.4	5779.05	-1689.51	1876.23	2524.82	6.40	S 44.6 E	0.14

HORIZONTAL WELL SURVEY REPORT

DIAMONDBACK DIRECTIONAL
A DWC Company

v1.00.01

OPERATOR:	TEXACO E & P, INC.	DIAMOND BACK HORIZONTAL DRILLER	
WELL:	Aneth Unit H #227 Leg #3	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:	Sidetrack Point @ 5700' MD		
Tie in to Scientific Finder Gyro Survey @ 5500' MD.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3516.29 Feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.04 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURVATURE CALCULATIONS(SPE-3362) DATE: 03/30/98 TIME: 7:38 PM

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
303	8280	92.8	135.6	5778.56	-1696.64	1883.23	2534.79	2.00	S 44.4 E	0.75
304	8290	92.0	135.0	5778.14	-1703.74	1890.26	2544.76	10.00	S 45.0 E	1.32
305	8300	91.2	134.3	5777.87	-1710.76	1897.37	2554.75	10.63	S 45.7 E	1.78
306	8310	91.0	133.6	5777.67	-1717.70	1904.57	2564.74	7.28	S 46.4 E	2.12
307	8320	91.0	133.6	5777.50	-1724.60	1911.81	2574.73	0.00	S 46.4 E	2.40
308	8330	91.3	133.5	5777.30	-1731.49	1919.06	2584.73	3.16	S 46.5 E	2.67
309	8340	91.6	133.4	5777.05	-1738.36	1926.32	2594.72	3.16	S 46.6 E	2.93
310	8350	91.6	133.7	5776.77	-1745.25	1933.56	2604.71	3.00	S 46.3 E	3.20
311	8360	91.4	133.6	5776.50	-1752.15	1940.79	2614.71	2.24	S 46.4 E	3.48
312	8370	91.1	133.6	5776.29	-1759.04	1948.03	2624.70	3.00	S 46.4 E	3.76
313	8380	90.5	133.4	5776.15	-1765.93	1955.29	2634.70	6.32	S 46.6 E	4.03
314	8390	89.9	132.6	5776.11	-1772.74	1962.60	2644.69	10.00	S 47.4 E	4.20
315	8400	90.1	132.3	5776.11	-1779.49	1969.98	2654.69	3.61	S 47.7 E	4.28
316	8410	90.3	132.6	5776.08	-1786.24	1977.36	2664.69	3.61	S 47.4 E	4.36
317	8420	90.4	133.0	5776.02	-1793.04	1984.69	2674.69	4.12	S 47.0 E	4.50
318	8430	90.3	132.8	5775.95	-1799.85	1992.02	2684.69	2.24	S 47.2 E	4.65
319	8440	90.0	132.7	5775.93	-1806.63	1999.36	2694.69	3.16	S 47.3 E	4.79
320	8450	88.7	131.7	5776.04	-1813.35	2006.77	2704.69	16.40	S 48.3 E	4.82
321	8460	87.5	131.1	5776.37	-1819.96	2014.27	2714.68	13.41	S 48.9 E	4.72
322	8470	87.1	130.7	5776.84	-1826.50	2021.82	2724.67	5.65	S 49.3 E	4.52
323	8480	86.8	130.4	5777.38	-1832.99	2029.41	2734.65	4.24	S 49.6 E	4.27
324	8490	86.2	130.1	5777.99	-1839.44	2037.02	2744.63	6.71	S 49.9 E	3.97
325	8500	86.0	130.0	5778.67	-1845.86	2044.66	2754.60	2.24	S 50.0 E	3.63
326	8510	86.3	129.9	5779.34	-1852.27	2052.31	2764.57	3.16	S 50.1 E	3.27
327	8520	86.7	129.9	5779.95	-1858.67	2059.97	2774.55	4.00	S 50.1 E	2.91
328	8530	87.1	130.4	5780.49	-1865.11	2067.60	2784.53	6.40	S 49.6 E	2.58
329	8540	88.0	130.9	5780.92	-1871.62	2075.18	2794.51	10.29	S 49.1 E	2.35
330	8550	88.9	131.6	5781.19	-1878.21	2082.69	2804.51	11.40	S 48.4 E	2.22
331	8560	89.4	132.1	5781.34	-1884.88	2090.14	2814.51	7.07	S 47.9 E	2.19
332	8570	89.4	132.2	5781.44	-1891.59	2097.56	2824.51	1.00	S 47.8 E	2.22
333	8580	89.3	132.2	5781.55	-1898.30	2104.96	2834.51	1.00	S 47.8 E	2.25
334	8590	88.9	132.2	5781.71	-1905.02	2112.37	2844.51	4.00	S 47.8 E	2.29
335	8600	89.4	131.7	5781.86	-1911.71	2119.81	2854.50	7.07	S 48.3 E	2.28
336	8610	90.4	131.5	5781.88	-1918.34	2127.28	2864.50	10.20	S 48.5 E	2.21
337	8620	91.0	131.5	5781.75	-1924.97	2134.77	2874.50	6.00	S 48.5 E	2.12
338	8630	91.0	131.5	5781.58	-1931.60	2142.26	2884.50	0.00	S 48.5 E	2.04
339	8640	90.9	131.5	5781.41	-1938.22	2149.75	2894.50	1.00	S 48.5 E	1.95
340	8650	90.6	131.1	5781.28	-1944.82	2157.26	2904.50	5.00	S 48.9 E	1.83
341	8660	90.6	130.9	5781.18	-1951.38	2164.81	2914.50	2.00	S 49.1 E	1.65
342	8670	90.5	130.5	5781.08	-1957.90	2172.39	2924.49	4.12	S 49.5 E	1.42
343	8680	90.3	131.5	5781.01	-1964.46	2179.94	2934.49	10.20	S 48.5 E	1.25

HORIZONTAL WELL SURVEY REPORT

DIAMONDBACK DIRECTIONAL
A BWC Company

v1.00.01

OPERATOR:	TEXACO E & P, INC.	DIAMOND BACK HORIZONTAL DRILLER	
WELL:	Aneth Unit H #227 Leg #3	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:	Sidetrack Point @ 5700' MD		
Tie in to Scientific Finder Gyro Survey @ 5500' MD.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3516.29 Feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.04 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURVATURE CALCULATIONS(SPE-3362) DATE: 03/30/98 TIME: 7:38 PM

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
344	8690	90.2	131.6	5780.97	-1971.09	2187.42	2944.49	1.41	S 48.4 E	1.17
345	8700	90.2	132.4	5780.93	-1977.79	2194.85	2954.49	8.00	S 47.6 E	1.17
346	8710	90.9	133.3	5780.84	-1984.59	2202.18	2964.49	11.40	S 46.7 E	1.32
347	8720	91.5	133.6	5780.63	-1991.46	2209.44	2974.48	6.71	S 46.4 E	1.57
348	8730	91.7	133.7	5780.35	-1998.36	2216.67	2984.47	2.24	S 46.3 E	1.86
349	8740	91.6	133.7	5780.06	-2005.27	2223.90	2994.47	1.00	S 46.3 E	2.16
350	8750	91.5	133.7	5779.79	-2012.17	2231.13	3004.46	1.00	S 46.3 E	2.46
351	8760	91.4	133.7	5779.54	-2019.08	2238.36	3014.45	1.00	S 46.3 E	2.75
352	8770	91.0	133.4	5779.33	-2025.97	2245.60	3024.44	5.00	S 46.6 E	3.02
353	8780	91.3	133.7	5779.13	-2032.86	2252.85	3034.44	4.24	S 46.3 E	3.29
354	8790	90.9	133.4	5778.94	-2039.75	2260.09	3044.43	5.00	S 46.6 E	3.56
355	8800	90.2	132.8	5778.84	-2046.58	2267.40	3054.43	9.22	S 47.2 E	3.76
356	8810	90.0	132.5	5778.82	-2053.35	2274.75	3064.43	3.61	S 47.5 E	3.87
357	8820	90.0	132.5	5778.82	-2060.11	2282.12	3074.43	0.00	S 47.5 E	3.96
358	8830	89.5	132.4	5778.87	-2066.86	2289.50	3084.43	5.10	S 47.6 E	4.04
359	8840	89.3	132.7	5778.97	-2073.62	2296.87	3094.43	3.61	S 47.3 E	4.13
360	8850	89.3	132.3	5779.09	-2080.38	2304.24	3104.43	4.00	S 47.7 E	4.22
361	8860	89.6	131.9	5779.19	-2087.08	2311.66	3114.43	5.00	S 48.1 E	4.24
362	8870	89.5	131.3	5779.27	-2093.72	2319.14	3124.43	6.08	S 48.7 E	4.17
363	8880	89.7	131.3	5779.34	-2100.32	2326.65	3134.42	2.00	S 48.7 E	4.04
364	8890	89.9	131.2	5779.37	-2106.91	2334.17	3144.42	2.24	S 48.8 E	3.91
365	8900	89.9	131.5	5779.39	-2113.52	2341.67	3154.42	3.00	S 48.5 E	3.80
366	8910	89.9	131.6	5779.41	-2120.15	2349.16	3164.42	1.00	S 48.4 E	3.72
367	8920	89.8	131.7	5779.43	-2126.80	2356.63	3174.42	1.41	S 48.3 E	3.66
368	8930	89.9	132.1	5779.46	-2133.47	2364.07	3184.42	4.12	S 47.9 E	3.64
369	8940	89.9	132.3	5779.48	-2140.19	2371.48	3194.42	2.00	S 47.7 E	3.68
370	8950	89.8	132.5	5779.50	-2146.94	2378.87	3204.42	2.24	S 47.5 E	3.75
371	8960	89.6	132.5	5779.56	-2153.69	2386.24	3214.42	2.00	S 47.5 E	3.84
372	8970	89.4	132.3	5779.64	-2160.43	2393.62	3224.42	2.83	S 47.7 E	3.91
373	8980	89.4	131.4	5779.75	-2167.11	2401.07	3234.42	9.00	S 48.6 E	3.88
374	8990	89.1	130.0	5779.88	-2173.63	2408.65	3244.42	14.32	S 50.0 E	3.65
375	9000	89.2	129.6	5780.03	-2180.03	2416.33	3254.41	4.12	S 50.4 E	3.27
376	9010	89.3	129.6	5780.16	-2186.40	2424.04	3264.40	1.00	S 50.4 E	2.85
377	9020	89.4	130.2	5780.27	-2192.81	2431.71	3274.39	6.08	S 49.8 E	2.48
378	9030	89.4	130.2	5780.38	-2199.27	2439.35	3284.39	0.00	S 49.8 E	2.17
379	9040	89.7	130.4	5780.45	-2205.74	2446.97	3294.38	3.61	S 49.6 E	1.87
380	9050	90.6	130.7	5780.43	-2212.24	2454.57	3304.38	9.49	S 49.3 E	1.62
381	9060	91.5	130.8	5780.25	-2218.76	2462.15	3314.37	9.06	S 49.2 E	1.40
382	9070	92.1	131.0	5779.93	-2225.31	2469.70	3324.37	6.32	S 49.0 E	1.21
383	9080	92.0	130.8	5779.57	-2231.85	2477.25	3334.36	2.23	S 49.2 E	1.02
384	9090	92.2	131.1	5779.21	-2238.40	2484.80	3344.35	3.60	S 48.9 E	0.84

HORIZONTAL WELL SURVEY REPORT

DIAMONDBACK DIRECTIONAL
A BWC Company

v1.00.01

OPERATOR:	TEXACO E & P, INC.	DIAMOND BACK HORIZONTAL DRILLER	
WELL:	Aneth Unit H #227 Leg #3	Lou Holder	
LOCATION:	San Juan County, Utah	David Sparks	
JOB NUMBER:	183042	Lonnie Lee	
COMMENTS:	Sidetrack Point @ 5700' MD		
Tie in to Scientific Finder Gyro Survey @ 5500' MD.		MAG DEC.(-/+)	12.3
Horizontal Displacement: 3516.29 Feet		GRID CORR.(-/+)	0.0
Displacement Bearing: South 48.04 East		TOTAL CORR.(-/+)	12.3

MINIMUM CURVATURE CALCULATIONS(SPE-3362) DATE: 03/30/98 TIME: 7:38 PM

PROPOSED DIRECTION 132.0

SUR #	MD	INC	TRUE AZM	TVD	N-S	E-W	SECT	DLS/ 100	TARGET TRACKING TO CENTER QUADRANT DIRECTION	RIGHT(+) LEFT(-)
385	9100	92.1	131.3	5778.83	-2244.98	2492.32	3354.34	2.23	S 48.7 E	0.70
386	9110	91.3	131.5	5778.54	-2251.59	2499.82	3364.34	8.25	S 48.5 E	0.59
387	9120	91.2	131.8	5778.32	-2258.24	2507.29	3374.33	3.16	S 48.2 E	0.53
388	9130	91.3	131.7	5778.10	-2264.89	2514.75	3384.33	1.41	S 48.3 E	0.49
389	9140	91.4	131.7	5777.86	-2271.54	2522.21	3394.33	1.00	S 48.3 E	0.44
390	9150	91.2	131.3	5777.64	-2278.17	2529.70	3404.33	4.47	S 48.7 E	0.35
391	9160	90.9	131.3	5777.45	-2284.77	2537.21	3414.32	3.00	S 48.7 E	0.23
392	9170	89.8	131.0	5777.39	-2291.35	2544.74	3424.32	11.40	S 49.0 E	0.08
393	9180	89.4	130.6	5777.46	-2297.88	2552.31	3434.32	5.66	S 49.4 E	-0.13
394	9190	89.4	130.6	5777.57	-2304.39	2559.90	3444.32	0.00	S 49.4 E	-0.38
395	9200	89.2	130.5	5777.69	-2310.89	2567.50	3454.31	2.24	S 49.5 E	-0.63
396	9210	88.9	130.3	5777.85	-2317.37	2575.12	3464.31	3.61	S 49.7 E	-0.91
397	9220	88.9	130.5	5778.05	-2323.85	2582.73	3474.30	2.00	S 49.5 E	-1.19
398	9230	89.1	130.7	5778.22	-2330.36	2590.32	3484.30	2.83	S 49.3 E	-1.43
399	9240	89.1	130.7	5778.38	-2336.88	2597.90	3494.29	0.00	S 49.3 E	-1.66
PRO	9250	89.1	130.7	5778.54	-2343.40	2605.48	3504.29	0.00	S 49.3 E	-1.88
PRO	9260	89.1	130.7	5778.69	-2349.92	2613.06	3514.29	0.00	S 49.3 E	-2.11
BIT	9262	89.1	130.7	5778.72	-2351.22	2614.58	3516.28	0.00	S 49.3 E	-2.16

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 14-20-603-2056
6. If Indian, Alottee or Tribe Name: NAVAJO TRIBE
7. If Unit or CA, Agreement Designation: ANETH UNIT
8. Well Name and Number: ANETH UNIT H227
9. API Well No.: 4303716317
10. Field and Pool, Exploratory Area: DESERT CREEK
11. County or Parish, State: SAN JUAN , UTAH

1. Type of Well: ☐ OIL WELL ☐ GAS WELL ☑ OTHER INJECTION WELL
2. Name of Operator: TEXACO EXPLORATION & PRODUCTION, INC.
3. Address and Telephone No.: 3300 N. Butler Ave., Suite 100 Farmington NM 87401 325-4397
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit Letter H : 1980 Feet From The NORTH Line and 630 Feet From The EAST Line Section 27 Township T40S Range R24E

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☑ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Atlering Casing	☐ Conversion to Injection
	☑ OTHER: WORKOVER & ACID	☐ Dispose Water

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

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

***** THIS SUNDRY REPORT IS FOR UTAH SEVERANCE TAX CALCULATION INFORMATION PURPOSES ONLY *****

TEXACO E. & P., INC. HAS COMPLETED THE SIDETRACK AND DRILLING OF THREE HORIZONTAL SECTIONS IN THE DESERT CREEK FORMATION OF THE SUBJECT WELL.

3/3/98 MIRU, POH W/ TBG & PKR., RIH W/ TIW PKR, SET @ 5549'
3/6 - 3/12/98 MILLED WINDOWS: LEG #1 5540-5547', LEG #2&3 5531-5538'

BOTTOM HOLE LOCATIONS AS FOLLOWS:

(LOWER). SOUTHEAST LATERAL #2: 4330' FNL & 1981' FWL, SEC. 26, T40S, R24E(TVD=5744', MD=9242') DISPLACEMENT 3515'
(UPPER). SOUTHEAST LATERAL #3: 4331' FNL & 1985' FWL, SEC. 26, T40S, R24E(TVD=5779', MD=9262') DISPLACEMENT 3516'

(UPPER). NORTHWEST LATERAL #1: 833' FNL & 1857' FEL, SEC. 27, T40S, R24E(TVD=5716', MD=7220') DISPLACEMENT 1680'

4/8 - 4/14/98 ACIDIZED LEG #1 W/ 5333 GALS 20% HCL & 22854 GALS 20% SXE, LEG #2 W/ 13136 GALS 20% HCL & 56296 GALS 20% SXE, LEG #3 W/ 8385 GALS 20% HCL & 35933 GALS 20% SXE

4/16/98 RIH W/ 2-7/8" TBG & PKR, SET PKR @ 5467', TESTED BACK SIDE TO 1000 PSI, HELD OK
4/17/98 READY TO RETURN WELL TO INJECTION

RECEIVED JUN 19 1998 DIV. OF OIL, GAS & MINING

WTC 12-23-98 psk

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

SIGNATURE Rached Hindi TITLE Senior Engineer DATE 6/16/98

TYPE OR PRINT NAME Rached Hindi

(This space for Federal or State office use)

APPROVED

CONDITIONS OF APPROVAL, IF ANY: ____ TITLE ____ DATE ____

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

ANETH UNIT No.H227

TRI-LATERAL SIDETRACK COMPLETION

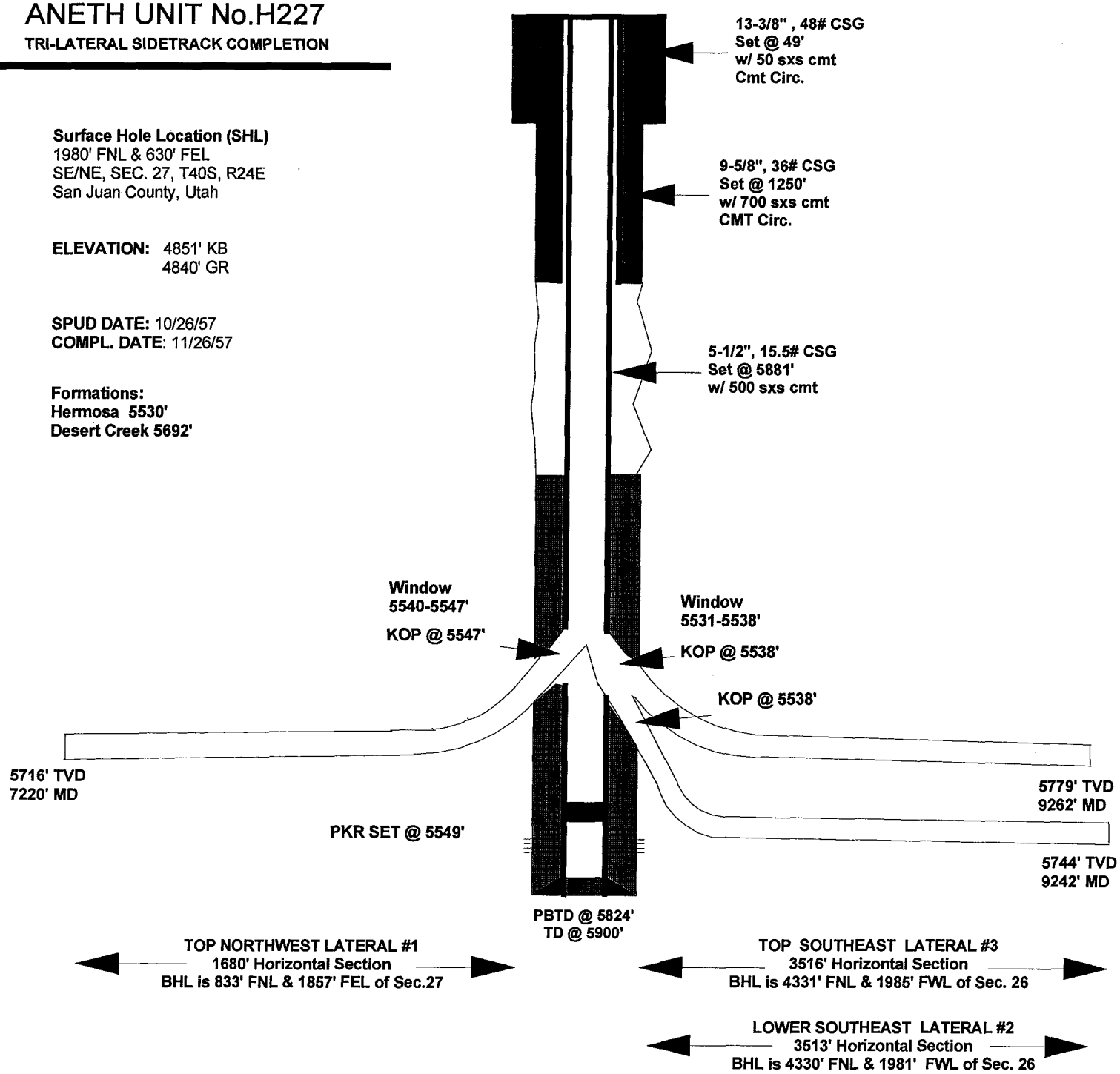
4/28/98

Surface Hole Location (SHL)
1980' FNL & 630' FEL
SE/NE, SEC. 27, T40S, R24E
San Juan County, Utah

ELEVATION: 4851' KB
4840' GR

SPUD DATE: 10/26/57
COMPL. DATE: 11/26/57

Formations:
Hermosa 5530'
Desert Creek 5692'



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

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)

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
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	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.
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	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.
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	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

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, Director
Minerals Department

Attachments
AZ/GLB/eab

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.

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
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. 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 Pagque xt
Signature: Janet Pagque
Title: Vice President
Date: 12/21/04

(This space for State use only)

Transfer approved by: [signature]
Title: UIC Geologist
Approval Date: 12-29-04

Comments: Transfer of Authority to Inject into the Aneth C214 and Aneth B14 contingent on this office receiving a corrective action plan for each well. ~~Both well~~ 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

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

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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:

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-2056

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7.UNIT or CA AGREEMENT NAME: ANETH

1. TYPE OF WELL Water Injection Well

8. WELL NAME and NUMBER: ANETH 27-D2 (ANETH H-227)

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES

9. API NUMBER: 43037163170000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER: 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1980 FNL 0630 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 27 Township: 40.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 9/2/2016	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: UIC Repair

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

Resolute Natural Resources respectfully submits this sundry as notice of UIC Repair on the above well. Attached are the procedures and schematics

Accepted by the Utah Division of Oil, Gas and Mining

Date: August 31, 2016

By: Dark K Dunt

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst

SIGNATURE	DATE
N/A	8/31/2016

RECEIVED: Aug. 31, 2016

Resolute

Natural Resources

Date: 8/31/2016
Re: AU H-227 UIC Repair

Procedure

1) **Shut-In offset injectors (G-127 & E-326) one week prior to MIRU.**
2) MIRU. Kill well as necessary. NDWH. NUBOPE.
3) POH & LD 2-7/8" TK Fiberline injection string & 5-1/2" injection packer.
4) PU & RIH with bit/scraper (spaced) on workstring from float.
5) Clean out to 5531' (Top Window). Circulate clean.
6) POH & LD bit/scraper.
7) PU & RIH with WL entry guide, profile nipple, 5-1/2" injection packer, ON/OFF Tool on workstring.
   Note: *Set injection packer (blanking plug-in-place) at 5270' (csg collars @ 5260' & 5302').*
   Note: *ON/OFF Tool: 1.81" 'F'-profile.*
   Note: *Profile Nipple: 1.78" 'R'-profile.*
8) J-Off ON/OFF Tool.
9) Circulate packer fluid.
10) Perform mock MIT.
    Note: *Horsley-Witten directive requires corrective action if csg leak(s) detected.*
11) POH & LD workstring on float.
12) PU & RIH with 2-7/8" TK-70XT injection string from float.
13) J-On ON/OFF Tool.
14) Perform mock MIT.
15) NDBOPE. NUWH.
16) Retrieve blanking plug.
17) Flush injection lateral line to tank (until clean).
18) RDMOL.
19) Schedule MIT with NNEPA.
20) Return well to water injection.

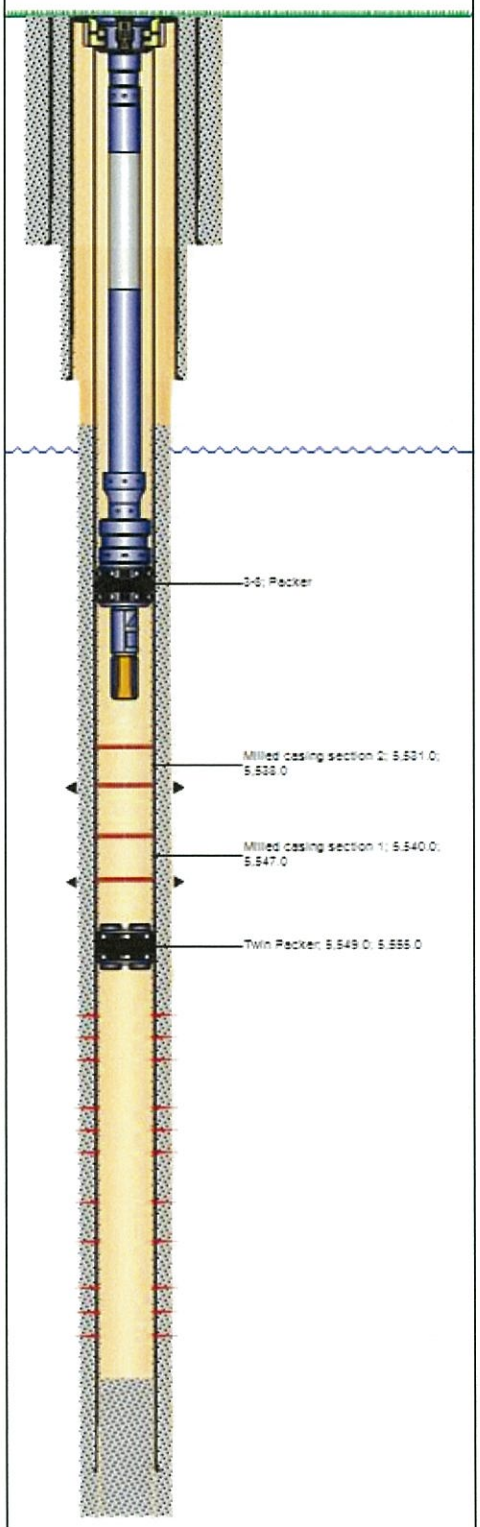
Resolute — **Tubing** — **WellView**

Well Name: AU H-227

API Number	Qtr/Qtr	Field Name	State/Province	Wellbore Config	Enertia ID#
4303716317	SE NE	Aneth Unit	Utah	Horizontal	0455.01
Ground Elevation (ft)	**Casing Flange Elevation (ft)**	**KB-Ground Distance (ft)**	**KB-Casing Flange Distance (ft)**	**Regulatory Spud Date**	**Rig Release Date/Time**
4840		11.00		10/26/1957 00:00	

Horizontal - Original Hole, 2/22/2012

Vertical schematic (actual)



Tubing

Tubing Description	Set Depth (ftKB)	Run Date	Pull Date
Tubing - Injection TKFL	5,309.2	2/22/2012	

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
1	Tubing Hanger	5 1/2					0.67	11.0	11.7
1	Pump Seating Nipple	2 7/8					1.10	11.7	12.8
1	Tubing	2 7/8	2.44	6.50	J-55		32.10	12.8	44.9
1	Tubing Pup Joint	2 7/8	2.44	6.50			6.10	44.9	51.0
166	Tubing	2 7/8	2.44	6.50	J-55		5,247.29	51.0	5,298.3
1	Cross Over	3 11/16	2.00				0.70	5,298.3	5,299.0
1	Seal Nipple	4 1/2	1.81				1.72	5,299.0	5,300.7
1	Packer	4 5/8	2.00				7.24	5,300.7	5,307.9
1	Profile Nipple	2 3/8	1.75				0.84	5,307.9	5,308.8
1	Wireline Guide	2 3/8	2.00				0.40	5,308.8	5,309.2
		2 3/8						5,309.2	5,309.2

Resolute

Schematic - Current

WellView

Well Name: AU H-227

API Number	Qtr/Qtr	Field Name	State/Province	Wellbore Config	Enertia ID#
4303716317	SE NE	Aneth Unit	Utah	Horizontal	0455.01
Ground Elevation (ft)	**Casing Flange Elevation (ft)**	**KB-Ground Distance (ft)**	**KB-Casing Flange Distance (ft)**	**Regulatory Spud Date**	**Rig Release Date/Time**
4840		11.00		10/26/1957 00:00	

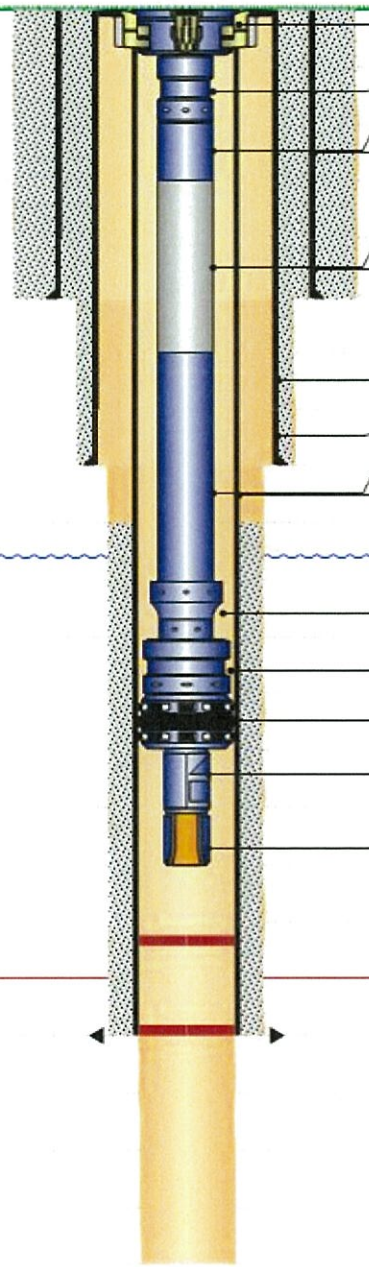
Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Start Date	End Date
MIT	Mechanical Integrity Test		8/26/2016	8/26/2016

Schematic

Horizontal - Lateral 3, 8/31/2016 10:04:10 AM

MD (ftKB)	Vertical schematic (actual)
11.2	Tubing Hanger; 11.0-11.7; 0.67; 3-1; 5 1/2
11.8	Pump Seating Nipple; 11.7-12.8; 1.10; 3-2; 2 7/8
12.8	Tubing; 12.8-44.9; 32.10; 3-3; 2 7/8; 2.44
44.9	Casing Joints; 11.0-47.0; 36.00; 1-1; 13 3/8; 12.72
46.9	Tubing Pup Joint; 44.9-51.0; 6.10; 3-4; 2 7/8; 2.44
48.9	Shoe; 47.0-49.0; 2.00; 1-2; 13 3/8; 12.72
50.9	Casing Joints; 11.0-1,248.0; 1,237.00; 2-1; 9 5/8; 8.92
1,248.0	Shoe; 1,248.0-1,250.0; 2.00; 2-2; 9 5/8; 8.92
1,250.0	Tubing; 51.0-5,298.3; 5,247.29; 3-5; 2 7/8; 2.44
4,111.9	Casing Joints; 11.0-5,879.0; 5,868.00; 3-1; 5 1/2; 4.95
5,298.2	Cross Over; 5,298.3-5,299.0; 0.70; 3-6; 3 11/16; 2.00
5,298.9	Seal Nipple; 5,299.0-5,300.7; 1.72; 3-7; 4 1/2; 1.81
5,300.5	Packer; 5,300.7-5,307.9; 7.24; 3-8; 4 5/8; 2.00
5,308.1	Profile Nipple; 5,307.9-5,308.8; 0.84; 3-9; 2 3/8; 1.75
5,308.7	Wireline Guide; 5,308.8-5,309.2; 0.40; 3-10; 2 3/8; 2.00
5,309.1	
5,530.8	
5,531.5	ISMAY (final)
5,538.1	
5,824.1	
5,878.9	
5,899.9	
9,262.1	



AU H-227 (Tri-Lateral)

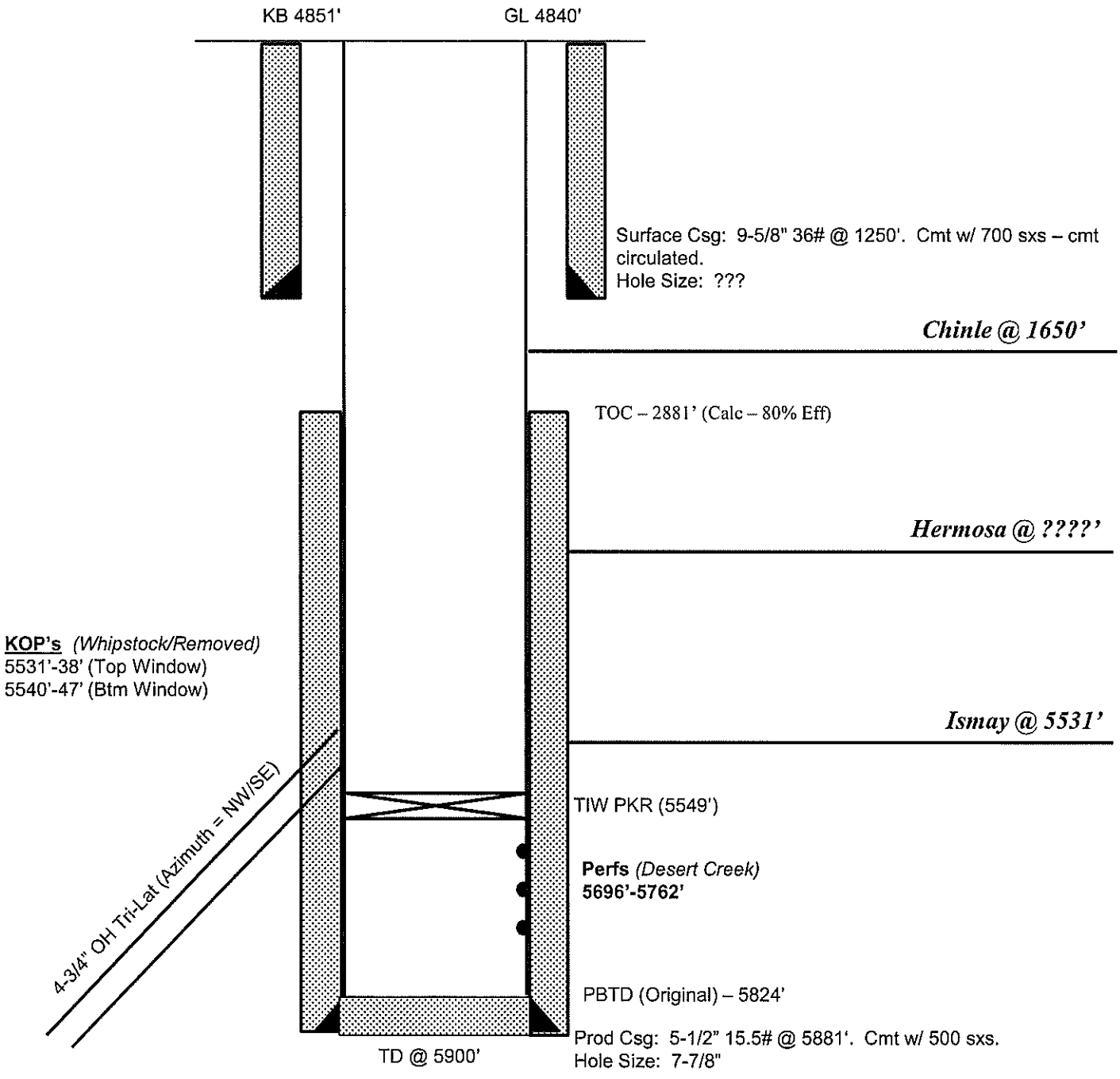
GREATER ANETH FIELD
1980' FNL & 630' FEL
SEC 27-T40S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-16317

Injector (1957)

Formation Tops

Navajo	
Chinle	*1650'*
DeChelly	
Organ Rock	
Hermosa	
Ismay	*5531'*
Desert Creek	*5692'*

Current



CA Wright 08-31-2016 AU H227

Resolute

Natural Resources

Date: 8/31/2016
Re: AU H-227 UIC Repair

Procedure

1) **Shut-In offset injectors (G-127 & E-326) one week prior to MIRU.**
2) MIRU. Kill well as necessary. NDWH. NUBOPE.
3) POH & LD 2-7/8" TK Fiberline injection string & 5-1/2" injection packer.
4) PU & RIH with bit/scraper (spaced) on workstring from float.
5) Clean out to 5531' (Top Window). Circulate clean.
6) POH & LD bit/scraper.
7) PU & RIH with WL entry guide, profile nipple, 5-1/2" injection packer, ON/OFF Tool on workstring.
   Note: *Set injection packer (blanking plug-in-place) at 5270' (csg collars @ 5260' & 5302').*
   Note: *ON/OFF Tool: 1.81" 'F'-profile.*
   Note: *Profile Nipple: 1.78" 'R'-profile.*
8) J-Off ON/OFF Tool.
9) Circulate packer fluid.
10) Perform mock MIT.
    Note: *Horsley-Witten directive requires corrective action if csg leak(s) detected.*
11) POH & LD workstring on float.
12) PU & RIH with 2-7/8" TK-70XT injection string from float.
13) J-On ON/OFF Tool.
14) Perform mock MIT.
15) NDBOPE. NUWH.
16) Retrieve blanking plug.
17) Flush injection lateral line to tank (until clean).
18) RDMOL.
19) Schedule MIT with NNEPA.
20) Return well to water injection.

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-2056

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7.UNIT or CA AGREEMENT NAME: ANETH

1. TYPE OF WELL Water Injection Well

8. WELL NAME and NUMBER: ANETH 27-D2 (ANETH H-227)

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES

9. API NUMBER: 43037163170000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER: 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1980 FNL 0630 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 27 Township: 40.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 9/27/2016
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: UIC Repair

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

Resolute Natural Resources respectfully submits this sundry as notice that the UIC repair was completed on 9/27/16 according to previously approved procedures

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 06, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst

SIGNATURE	DATE
N/A	10/5/2016

RECEIVED: Oct. 05, 2016