

- Scout Report sent out
- Noted in the NID File
- Location map pinned
- Approval or Disapproval Letter
- Date Completed, P. & A, or operations suspended 9-13-57
- Pin changed on location map
- Affidavit and Record of A & P
- Water Shut-Off Test
- Gas-Oil Ratio Test
- Well Log Filed

*Converted to water injection and started injecting April 1962*

**FILE NOTATIONS**

Entered in NID File

Entered on S 2 Sheet

Location Map Pinned

Card Indexed

IWR for State of Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

Date Well Completed 9-13-57

Location Inspected

Bond released State of Fee Land

LOGS FILED

Drill's Log 9-19-57

Electric Logs (No. ) 1

E 1 E-I 1 GR 1 Micro 1

Lat. MI-L Sonic 1 Others Radioactivity Log

STATE OF UTAH  
OIL AND GAS CONSERVATION COMMISSION

FORM OCCC-1

NOTICE OF INTENTION TO DRILL

Lease No. 146022

Navajo Indian Tribal Lands "E" Lease

OIL AND GAS CONSERVATION COMMISSION

Fort Worth, Texas, July 6, 1957

In compliance with Rule G-4, notice is hereby given that it is our intention to commence the work of drilling Well No. 5, which is located 1,890 feet from (N) line and 500 feet from (E) line of Sec. 15, Twp. 40-S, R. 24-E, S1M, (Meridian)  
~~XXX~~ ANETH, San Juan, on or about the 9 day of July 1957.  
(Field or Unit) (County)

LAND: Fee and Patented (x) Name of Owner  
State ( ) of Patent or Lease THE TEXAS COMPANY  
Lease No. \_\_\_\_\_ Address P. O. Box 1720  
Public Domain ( ) Fort Worth 1, Texas  
Lease No. \_\_\_\_\_

Is location a regular or exception to spacing rule? Regular Has a surety bond been filed? Yes With whom? Indian Land, Federal Area in drilling unit? --  
(State or Federal)

Elevation of ground above sea level is 4,699.4 feet. All depth measurements taken from top of Derrick Floor which is 11 feet above ground.  
(Derrick Floor, Rotary Table or Kelly Bushing)

Type of tools to be used Rotary Proposed drilling depth 5800 feet.  
Objective Formation is Hermosa Surface Formation is \_\_\_\_\_

PROPOSED CASING PROGRAM

Size of Casing Inches A. P. I.	Weight per Foot	Grade and Type	Amount Ft. In.	Top	Bottom	Cementing Depths
9-5/8"	3230#	New	1500'	0	1500'	1500'
5-1/2"	14.0#	New	5500'	0	5500'	
5-1/2"	15.5#	New	5800'	5500'	5800'	5800'

REMARKS: 1500 sacks of cement to be used.

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 for regular spacing  
Date 7-9 1957  
By Elton B Feight  
Title Secretary

By W. C. Lenz  
General Supt. Drilling & Production  
(Title or Position)  
THE TEXAS COMPANY  
(Company or Operator)  
Address P. O. Box 1720  
Fort Worth 1, Texas

wlh  
INSTRUCTIONS:

1. Complete this form in duplicate and mail both copies to the Oil and Gas Conservation Commission, Room 140, State Capitol Building, Salt Lake City, 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.



July 9, 1957

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

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo E-5, which is to be located 1890 feet from the north line and 500 feet from the east line of Section 15, Township 40 South, Range 24 East, S1E1M, San Juan County, Utah.

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

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

OLEON B. FREIGHT  
SECRETARY

CBF:en

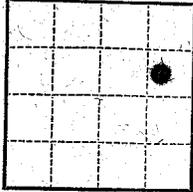
cc: Phil McGrath/ Jerry Long  
U.S.G.S. Farmington,  
New Mexico

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo  
Tribal

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_  
Lease No. I-149-IND-8834



*Noted  
CH  
8-6-57*

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

July 24, 1957

Navajo Indian Tribal Lands "B"

Well No. 5 is located 1980 ft. from  $\left\{ \begin{matrix} N \\ S \end{matrix} \right\}$  line and 660 ft. from  $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$  line of sec. 15

NE 1/4 Sec. 15      40-S      24-S      SLM  
(1/4 Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)  
Aneth      San Juan      Utah  
(Field)      (County or Subdivision)      (State or Territory)

The elevation of the derrick floor above sea level is 4710 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 9 P. M. July 8, 1957.

Drilled 12-1/4" hole to 1410' and cemented 1385' of 9-5/8" casing at 1397' with 800 sacks Pozmix plus 4% Jel followed by 200 sacks neat cement plus 1% CaCl. Cement circulated. Tested with 1000# for 30 minutes and tested O.K.

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

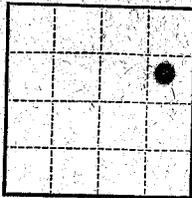
Company The Texas Company

Address Box 1221

Pampa, Texas

By \_\_\_\_\_

Title Asst. Dist. Supt.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency Navajo

Tribal

Allottee \_\_\_\_\_

Lease No. I-149-IND-8834

*Noted  
CASH  
8-28-57*

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

August 20, 19 57

Navajo Indian Tribal Lands "B"

Well No. 5 is located 1980 ft. from  $\begin{matrix} N \\ S \end{matrix}$  line and 660 ft. from  $\begin{matrix} E \\ W \end{matrix}$  line of sec. 15

NE 1/4 Sec. 15  
(1/4 Sec. and Sec. No.)

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

SLM  
(Meridian)

Aneth  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the derrick floor above sea level is 4710 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drilled 8-3/4" hole to 5745' and cemented 5727' of 5-1/2" OD casing at 5737' with 500 sacks cement. Top of cement at 4405'. Tested casing with 600# pressure for 30 minutes and tested O.K.

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

Company The Texas Company

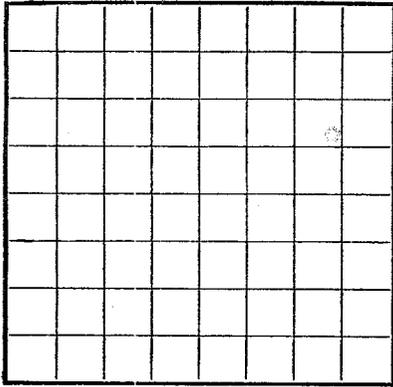
Address Box 1221

Pampa, Texas

By \_\_\_\_\_

Title Ass't. Dist. Supt.

**Navajo Indian**  
U. S. LAND OFFICE  
SERIAL NUMBER **1-149-IND-8834**  
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

*Notes  
C&H  
922-57*

**LOG OF OIL OR GAS WELL**

Company The Texas Company Address Box 1997, Farmington, N. M.  
Lessor or Tract Navajo Indian Tribal Lands - E Lease Field Ameth State Utah  
Well No. 5 Sec. 15 T. 40-S R. 24-E Meridian S1M County San Juan  
Location 1930 ft. N of N Line and 660 ft. W of E Line of Sec. 15 Elevation 4710  
(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 September 13, 1957 Title Dist. Sup't.

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

Commenced drilling July 13, 1957 Finished drilling August 15, 1957

**OIL OR GAS SANDS OR ZONES**

*(Denote gas by G)*

No. 1, from 5538' to 5607' No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

**IMPORTANT WATER SANDS**

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

**CASING RECORD**

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
9-5/8	32.30	5	Smith	1335'	Baker	None			
9-1/2	18.5	5	Smith	1082'	Coke	C&E Above	5538	5607	Prod.

**MUDDING AND CEMENTING RECORD**

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	1397	1000	Halliburton		
9-1/2	3737	500	Halliburton		

**PLUGS AND ADAPTERS**

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

FOLD MARK

FOLD MARK

9-5/8	1337	1000	Halliburton		
5-1/2	3737	500	Halliburton		

**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
None						

**TOOLS USED**

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

**DATES**

Put to producing \_\_\_\_\_, 19\_\_\_\_  
 Tested \_\_\_\_\_, 19\_\_\_\_  
 The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water and \_\_\_\_\_% sediment.  
 Gravity, °Bé. \_\_\_\_\_  
 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  
 C. E. Gilmore \_\_\_\_\_, Driller  
 J. C. Brown \_\_\_\_\_, Driller  
 M. H. Madden \_\_\_\_\_, Driller

**FORMATION RECORD**

FROM—	TO—	TOTAL FEET	FORMATION
0	715	715	Sand & Shale
715	1401	686	Red Bed & Sand
1401	2200	799	Sand, Shale & Red Bed
2200	2628	428	Shale & Anhy
2628	2720	92	Sand
2720	2976	256	Shale & Red Bed
2976	3095	119	Shale & Lime
3095	3170	75	Shale & Red Bed
3170	3270	100	Shale, Lime & Chert
3270	3432	162	Shale & Lime
3432	3737	305	Anhy & Shale
3737	3791	54	Anhy & Lime
3791	4198	407	Shale, Anhy & Lime
4198	4532	334	Shale & Lime
4532	4714	182	Lime & Chert
4714	4915	201	Lime & Shale
4915	5028	113	Lime & Chert
5028	5295	267	Lime & Shale
5295	5344	49	Lime & Chert
5344	5359	15	Lime, Shale & Chert
5359	5403	44	Lime
5403	5566	163	Lime & Shale
5566	5738	172	Lime
5738	5745	7	Lime & Shale





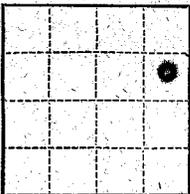
(SUBMIT IN TRIPLICATE)

Indian Agency **Navajo Tribal**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_

Lease No. **I-149-IND-8834**



*Noted  
Cox  
9-23-57*

**SUNDRY NOTICES AND REPORTS ON WELLS**

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	<input checked="" type="checkbox"/>
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)

**September 13**, 19 **57**

**Navajo Indian Tribal Lands "E"**  
Well No. **5** is located **1980** ft. from **N** line and **660** ft. from **E** line of sec. **15**  
**EE $\frac{1}{4}$**  of Sec. **15** **40-S** **24-E** **SLM**  
( $\frac{1}{4}$  Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**Aneth** **San Juan** **Utah**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4710**ft.

**DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

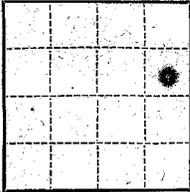
**Total Depth 5745'. Plugged Back Depth 5701'.**  
On 8-22-57 perforated 5-1/2" casing from 5538' to 5558', and 5567' to 5607' with 4 jet shots per foot. Set packer at 5326' and acidised with 500 gallons mud acid followed by 2000 gallons 15% regular acid.

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

Company **The Texas Company**  
Address **Box 1997**  
**Farmington, New Mexico**

By *[Signature]*  
Title **District Sup't.**

*W*



(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_

Lease No. I-149-ND-6834

71-4  
10-31

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	
NOTICE OF INTENTION TO ABANDON WELL		<b>Installation of Pumping Equipment</b>	<b>XX</b>

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

Navajo Tribe #12

October 23, 1958

Well No. 5 is located 1980 ft. from N line and 660 ft. from E line of sec. 15

NE 1/4 of Section 15  
(1/4 Sec. and Sec. No.)

40-S  
(Twp.)

24-E  
(Range)

S1M  
(Meridian)

Anech  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the derrick floor above sea level is 4710 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Installed pumping equipment and commenced pumping well 8-8-58. Pumped 139 barrels of 42° gravity oil during 24 hour pumping test ending 8-14-58, using 1-1/4" X 16" pump, 88" stroke, 14 strokes per minute.

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

Company The Texas Company

Address Box 817

Farrington, New Mexico

By

Title

Dist. Supt.

W

1962

R 18

Form 9-331b  
(April 1952)

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee I-149-IND-8834

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	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	X
NOTICE OF INTENTION TO ABANDON WELL		

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

January 30, 1962

**Aneth Unit**  
Well No. H215 is located 1890 ft. from N line and 500 ft. from E line of sec. 15

NE 1/4 of Sec. 15      40-S      24-E      SLM  
(1/4 Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)  
Aneth      San Juan      Utah  
(Field)      (County or Subdivision)      (State or Territory)

The elevation of the derrick floor above sea level is 4710 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Moved in pulling unit and commenced workover December 30, 1961. On November 21, 1961, before workover commenced, the 5-1/2" casing was perforated from 5626' to 5656' with 2 jet shots per foot. After commencing workover, ran tubing with retrievable bridge plug and packer and set bridge plug at 5670' and packer at 5616'. Treated perforations from 5626' to 5656' with 500 gallons of NEST acid and 2000 gallons of emulsified acid. Reset bridge plug at 5613' and packer at 5506'. Treated perforations 5538' to 5558', 5567' to 5607' with 500 gallons NEST acid and 4000 gallons emulsified acid. Pulled packer and retrievable bridge plug. Ran 2-3/8" plastic lined tubing with Baker Injection Packer on bottom of tubing and set packer at 5462'. Put inhibitor behind packer and tested with 1000# pressure.  
(Continued on reverse side)

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

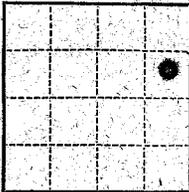
Farmington, New Mexico

By [Signature]

Title District Superintendent

packer tested OK. Completed workover and shut well in December 31, 1961. This is a water injection well and is now shut-in waiting on water injection line.

FEB 1 1962



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency Navajo

Tribal

Allottee \_\_\_\_\_

Lease No. I-149-IND-8634

*Noted  
Call  
9-2357*

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	<input checked="" type="checkbox"/>
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)

September 13, 1957

Navajo Indian Tribal Lands "E"  
Well No. 5 is located 1980 ft. from N line and 660 ft. from W line of sec. 15

EE $\frac{1}{2}$  of Sec. 15      40-S      24-E      SLM  
( $\frac{1}{4}$  Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)  
Aneth      San Juan      Utah  
(Field)      (County or Subdivision)      (State or Territory)

The elevation of the derrick floor above sea level is 4710 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

**Total Depth 5745'. Plugged Back Depth 5701'.  
On 8-22-57 perforated 5-1/2" casing from 5538' to 5558', and  
5567' to 5607' with 4 jet shots per foot. Set packer at 5326'  
and acidised with 500 gallons mud acid followed by 2000 gallons  
15% regular acid.**

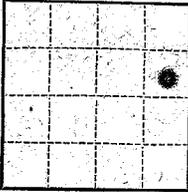
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Texas Company

Address Box 1997  
Farmington, New Mexico

By [Signature]  
Title District Sup't.

*W*



(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee \_\_\_\_\_

Lease No. I-149-IND-3034

SUNDRY NOTICES AND REPORTS ON WELLS

7-15  
10-31

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	
NOTICE OF INTENTION TO ABANDON WELL	<b>Installation of Pumping Equipment</b>	<b>XX</b>

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

Navajo Tribe **WIP**

October 23, 1958

Well No. 3 is located 1900 ft. from N line and 660 ft. from E line of sec. 15

NE 1/4 of Section 15  
(1/4 Sec. and Sec. No.)

42-S  
(Twp.)

24-E  
(Range)

SLM  
(Meridian)

Aneth  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the derrick floor above sea level is 4710 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

**Installed pumping equipment and commenced pumping well 8-8-58. Pumped 139 barrels of 42° gravity oil during 24 hour pumping test ending 8-14-58, using 1-1/4" X 16" pump, 89" stroke, 14 strokes per minute.**

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

Company The Texas Company

Address Box 817

Farmington, New Mexico

By [Signature]  
Title Dist. Supt.

W

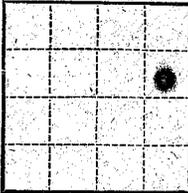
(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee

Lease No. I-149-110-8834



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	<input checked="" type="checkbox"/>
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)

April 9

19 63

Another Unit  
Well No. NR15 is located 1890 ft. from N line and 500 ft. from E line of sec. 15  
NE 1/4 of Sec. 15 40-2 24-E 111  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Another San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4720 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 2-20-63.

Reason for workover was to increase injectivity by acidizing.

Treated all perforations (5538' to 5558', 5567 to 5607' and 5626' to 5696') through tubing with 1500 gallons of Dowell "X" acid with 2 1/2 tons of CO2 gas. Treating pressure 3000 psi with an average injection rate of 3.5 barrels per minute. Shut in pressure after completing treatment 2800 psi. Back flowed and returned well to water injection. On 24 hour test ending 2-21-63, injected 1199 barrels of water in well with injection tubing pressure 1475 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 P. O. Box 810

Farmington, New Mexico

By

Title District Superintendent

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

1-149-140-8834

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Aneth Unit

8. FARM OR LEASE NAME

9. WELL NO.

H215

10. FIELD AND POOL, OR WILDCAT

Aneth

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

15, 40-S, 24-E, SLM

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

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

**1890' from North Line and 500' from East Line**

14. PERMIT NO.

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

**4710' DF**

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

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

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

**Reason for workover was to increase injectivity.**

**Commenced workover on 6-11-65. Backflowed well and treated all perforations through tubing with 600 gallons of Dowell XL-1 acid. Treating pressure 2300 to 1000 psi with an average injection rate of 2-3/4 barrels per minute. Instant shut-in pressure 1600 psi. Backflowed well and returned to water injection. Injected 950 barrels of water into well on 24 hour test ending 10:00 AM, 6-15-65.**

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

SIGNED C.P. Farmer

TITLE District Superintendent

DATE June 29, 1965

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

USGS(3) OGCC(2) NT(1) CBS(1) WBB(1) - 8

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**SUBMIT IN TRIPLICATE\***  
(Other instructions on reverse side)

6.33.2 (w) *MD*  
Form approved.  
Budget Bureau No. 42-R1424.

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <i>Water Injection</i></p> <p>2. NAME OF OPERATOR <i>Terraco Inc - Prod. Dept - Rocky Mtn</i></p> <p>3. ADDRESS OF OPERATOR <i>Box 810, Farmington, N.M. 87401</i></p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <i>1890 ft. f/No. &amp; 500 ft. f/E. Line</i></p> <p>14. PERMIT NO.</p> <p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) <i>4710 DF</i></p>	<p>5. LEASE DESIGNATION AND SERIAL NO. <i>I-149-IND-8834</i></p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME <i>Navajo</i></p> <p>7. UNIT AGREEMENT NAME <i>Arith Unit</i></p> <p>8. FARM OR LEASE NAME</p> <p>9. WELL NO. <i>H-215</i></p> <p>10. FIELD AND POOL, OR WILDCAT <i>Arith Field</i></p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <i>15, T40S, 24-E, SLM.</i></p> <p>12. COUNTY OR PARISH 13. STATE <i>San Juan Utah</i></p>
--	---

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

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

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

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

*10/71 - Backflowed approx. 75 BW & acidized w/ 750 gal. 15% reg. acid w/ L-41 & displaced w/ 880 gal. injection water via tubing.*

	PSI MAX MIN	Rate BPM	ISIP 10MIN	Inj. Test (BWPD) Before After
<i>Acid</i>	<i>2800 2000</i>	<i>2.5</i>	<i>2400 2100</i>	<i>950 @ 2375 1200 @ 2300</i>
<i>Flush</i>	<i>2900 2800</i>	<i>2.5</i>		

*Treated w/ 25 gal. biocide.*

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

SIGNED *[Signature]* TITLE *District Superintendent* DATE *2-16-72*

(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

*USGS(3) OGC(2) NAVAJO Tribe - Superior Oil Co - HNB - GLE - WLW*  
*Farm SLE Window Rock Co. 102*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**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 Form 9-331-C for such proposals.)

1. oil well  gas well  other **Water Injection**

2. NAME OF OPERATOR  
**Texaco Inc.**

3. ADDRESS OF OPERATOR  
**P.O. Box 2100 Denver, Colo. 80201**

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
**SE<sub>4</sub> NE<sub>4</sub> Sec 15**  
AT SURFACE: **1980'FNL & 660'FEL Sec 15**  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE  
**I-149-IND-8834**

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

7. UNIT AGREEMENT NAME  
**Aneth Unit**

8. FARM OR LEASE NAME  
**Unit**

9. WELL NO.  
**H215**

10. FIELD OR WILDCAT NAME  
**Aneth Field**

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA  
**Sec 15 T40S R24E SLM**

12. COUNTY OR PARISH 13. STATE  
**San Juan Utah**

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
**4710DF**

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input checked="" type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other)			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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 plans to repair casing leak & remove two downhole packers.**
1. MIRUSU - Pull tubing & packer - Set RBP above 5228'.
  2. Run tbg. & pkr. to determine casing leak. Set pkr. above top hole.
  3. Squeeze W/50 sx class B cement. Drill out cmt. run scraper & test.
  4. Retrieve RBP. TIH & mill slips off of 5 1/2 pkr. at 5228' Retrieve PKR.
  5. Drill out packer at 5462' & circulate hole clean.
  6. Run new 2-3/8 PC, tbg. & Packer. Set PKR. at 5500'KB.
  7. Inhibit annulus and test to 1000 psi.
  8. Put well on injection.

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

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Ft.

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

DATE: 8-18-82  
BY: [Signature]

SIGNED [Signature] TITLE Field Supt. DATE 8-20-82

(This space for Federal or State office use)

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

MMS (4) UOGCC (3) Navajo Tribe - Superior Oil CDF-ARM

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**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 Form 9-331-C for such proposals.)

1. oil well  gas well  other Water Injection

2. NAME OF OPERATOR  
Texaco Inc.

3. ADDRESS OF OPERATOR  
P.O. Box EE Cortez, Colorado 81321

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1890'FNL & 500'FEL Sec 15  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE  
I-149-IND-8834

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME  
Aneth Unit

8. FARM OR LEASE NAME  
Unit

9. WELL NO.  
H215

10. FIELD OR WILDCAT NAME  
Aneth Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec 15, T40S, R24E

12. COUNTY OR PARISH | 13. STATE  
San Juan | Utah

14. API NO.

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE REPORT, OR OTHER DATA

- REQUEST FOR APPROVAL TO:
- TEST WATER SHUT-OFF
  - FRACTURE TREAT
  - SHOOT OR ACIDIZE
  - REPAIR WELL
  - PULL OR ALTER CASING
  - MULTIPLE COMPLETE
  - CHANGE ZONES
  - ABANDON\*
  - (other)

SUBSEQUENT REPORT OF:

**RECEIVED**  
JUL 15 1983  
DIVISION OF  
GAS & MINING

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4710'DF

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

10-14-82 MIRUSU: Pulled tbg. Left 3 jts. of tubing W/packer in hole. Went in with overshot to retrieve tubing & packer. Got stuck W/overshot at 2330'KB. TOO H W/overshot. TIH W/bit and scraper. Started drilling on tight spot at 2330'KB, could not get down. TIH W/casing swedge and bumper subs. Worked tight spot. Trip back in W/overshot, stacked out at 2392'KB. TOO H W/overshot. TIH W/casing swedge, worked down to 3751'KB, then to fish. TOO H W/overshot & caught fish at 5064'KB. TOO H W/remaining tubing & packer. Well back flowing hard W/formation in returns. TIH W/retriev- amatic pkr. Tagged old packer and pulled up. Set packer at 5220'KB. and psi tested backside to 1000 psi. Held OK.

(See Attached.)

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED A.R. Marx TITLE Field Supt. DATE 7/6/83

(This space for Federal or State office use)

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

BLM (4) UOGCC (3) Navajo Tribe-Superior Oil-JNH-CDF-ARM

# TEXACO

TIH W/new 2-3/8" plastic coated tubing and packer. Set packer and psi tested backside to 1000 psi. Held good. Unset packer to inhibit annular fluid w/ corrosion inhibitor. Could not pump down casing or tubing at 2200 psi. w/packer unset. Well continued to backflow. TOOH W/tubing and packer. TIH W/overshot, extensions and jars to fish for old packer at 5228. Could not get past tight spot at 2360'KB. TOOH W/casing roller. Made 124 feet, TOOH. TIH W/60' of tubing. Tried to inject water at 2200 psi. Unsuccessful, suspect old packer downhole is acting as a check valve to flow down wellbore. TIH w/more 2-7/8" tubing, got stuck again at 2360'KB. TOOH. TIH w/ 2-3/8" PC tubing. Tagged at 2336'KB. and could not get down any further. RDMOSU on 10/28/82 awaiting reevaluation. On 5/19/83 Workover was resumed. TIH W/ 4-1/2 casing swage W/bumper subs and jars on 2-7/8 tbg. Tagged at 2310'KB. Swage out to 2380'KB. Pulled 5 stands & SIFN. Next day TIH and tagged at 2310'KB again. Swage out to 2405 & fell thru. TOOH. TIH W/4-3/4 swage and tagged again at 2304. Started circulating returns at 1000 psi. surface. Several days of circulating and swaging followed but w/no success. Finally TIH w/tubing. Tagged at 2330 KB. Circulate 50 Bbls fresh water. Spot 30 sacks of Class B cement W/2% CaCL2 in casing. TOOH laying down. Flange up wellhead and RDMOSU.

Evaluating P & A.

Form 3160-5  
(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. LEASE DESIGNATION AND SERIAL NO.  
I-149-IND-8834  
7. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo  
7. UNIT AGREEMENT NAME  
Aneth Unit  
8. FARM OR LEASE NAME  
Unit  
9. WELL NO.  
H215  
10. FIELD AND POOL, OR WILDCAT  
Aneth Field  
11. SEC., T., R., M., OR ALK. AND  
SUBST. OR AREA  
Sec. 15, T40S, R24E  
12. COUNTY OR PARISH  
San Juan  
13. STATE  
Utah

1. OIL WELL  GAS WELL  OTHER Water Injection  
2. NAME OF OPERATOR  
Texaco Inc.  
3. ADDRESS OF OPERATOR  
P.O. Box EE, Cortez, CO. 81321  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
1890' FNL & 500' FEL Sec. 15  
14. PERMIT NO.  
15. ELEVATIONS (Show whether DT, RT, UN, etc.)  
4710' DF

RECEIVED  
AUG 02 1985  
DIVISION OF OIL  
GAS & MINING

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)   
FULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)   
REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and 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. proposes to abandon this well using the following procedure, subject to managerial approval. This proposed procedure was granted verbal approval status 7/29/85 @ 3:50 P.M., by Jim Lavato w/the BLM to D.D. Wiederecht W/Texaco Inc., your office will be notified prior to initiating plugging operations so that a representative can witness.

Procedure:

- 1.) MIRUSU
- 2.) Perf a 4-way squeeze shot @ 1555' KB.
- 3.) Spot a cement plug inside & outside 5 1/2" casing from 1555' - 1335'.
- 4.) Fill casing w/9.2 lb./gal. mud.
- 5.) Perf 4-way squeeze shot @ 100'.
- 6.) Fill 5 1/2" casing & Annulus w/cement from 100' - surface.
- 7.) Erect P & A Marker and clean location.

Note: A plug of @ least 100' in length is required at the top of the existing perforations @ 5538'.

Federal approval of this action is required before commencing operations.

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

SIGNED Alan R. Mays TITLE Area Superintendent DATE 7/30/85

ACCEPTED BY THE STATE

(This space for Federal or State office use)

OF UTAH DIVISION OF OIL GAS AND MINING

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

DATE: 8/20/85  
Alan R. Mays

BLM (4) - UOGCC (3) - Navajo Tribe - JNE-AJS-ARM

Form 3160-5  
(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.  
I-149-IND-8834  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo  
7. UNIT AGREEMENT NAME  
Aneth Unit  
8. FARM OR LEASE NAME  
Unit  
9. WELL NO.  
H215  
10. FIELD AND POOL, OR WILDCAT  
Aneth Field  
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 15, T40S, R24E  
12. COUNTY OR PARISH  
San Juan  
13. STATE  
Utah

1. OIL WELL  GAS WELL  OTHER  Water Injection  
2. NAME OF OPERATOR  
Texaco Inc.  
3. ADDRESS OF OPERATOR  
P. O. Box EE, Cortez, Co. 81321  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
1890' FNL & 500' FEL  
14. PERMIT NO.  
15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4710'

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

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

(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. is in the process of obtaining Working Interest Owners approval to P & A this well. We expect to obtain approvals by 12/15/86. Plugging operations will commence following approval.



DIVISION OF OIL, GAS & MINING

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

Federal approval of this action is required before commencing operations.

DATE: 10-30-86  
BY: John R. Bay

18. I hereby certify that the foregoing is true and correct  
SIGNED: John R. Bay TITLE: Area Supt. DATE: 10/20/86

(This space for Federal or State office use)

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

BLM (6) UOGCC (3) Navajo Tribe Mobil Oil JHN LAA ARM  
\*See Instructions on Reverse Side

< Sheet (10/20/86) >  
 Plan to PA  
13

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

OPERATOR: TEXACO  
 FIELD: Aneth LEASE: \_\_\_\_\_  
 WELL # H-215 SEC. 15 TOWNSHIP 40S RANGE 24E  
 STATE FED. FEE DEPTH 5745 TYPE WELL INJW MAX. INJ. PRESS. 2500

TEST DATE 3/24/87

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>9 5/8</u>	<u>1397</u>			<u>Shut-in</u>	
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>	<u>5 1/2</u>	<u>5737</u>				
<u>TUBING</u>						

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

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

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

SUBMIT IN TRIPL  
(Other instructions on re-  
verse side)

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. OIL WELL  GAS WELL  OTHER  Water Injection Well

2. NAME OF OPERATOR  
Texaco Inc.

3. ADDRESS OF OPERATOR  
P. O. Box EE, Cortez, Co. 81327

4. LOCATION OF WELL (Report location clearly and in accordance with applicable requirements.  
See also space 17 below.)  
At surface  
1890' FNL & 500 FEL

14. PERMIT NO. \_\_\_\_\_

15. ELEVATIONS (Show whether DF, RT, or L) \_\_\_\_\_  
4710' KB

**RECEIVED**  
APR 30 1987

DIVISION OF  
OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.  
I-149-IND-8834

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo **050415**

7. UNIT AGREEMENT NAME  
Aneth Unit

8. FARM OR LEASE NAME  
Unit

9. WELL NO.  
H215

10. FIELD AND POOL, OR WILDCAT  
Aneth Field

11. SEC., T., E., M., OR BLE, AND SURVEY OR AREA  
Sec. 15, T40S, R24E

12. COUNTY OR PARISH 13. STATE  
San Juan Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

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

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

The subject well was completed as plugged and abandoned on April 8, 1987. The following procedure was carried out during the plugging operations.

1. Notified Earl Becher w/BLM of intent to MIRU on April 8, 1987, 10:00 A.M.
2. MIRUSU. Nipple up BOPs. TIH w/4" casing gun (no tubing in hole).
3. Shoot 4 way squeeze holes at 1555' KB. TOO H w/gun.
4. TIH w/workstring to 1555' KB. Rig up cementers. Establish rate of ½ BPM @ 800 psi. No returns up bradenhead.
5. Spot 75 sx Class B cement from 1555'. POOH w/tubing to 900'KB. Squeeze 24 sx into formation. Final squeeze psi 1400 psi. Left 50 sx cement inside 5½" casing. TOC - 1129' KB.
6. Load hole w/9.2#/gal brine based mud. TOO H laying down tubing.
7. TIH w/perf gun & shoot 4 way squeeze holes at 100' KB. TOO H w/gun.
8. Rig up cementers. Pump 45 sx Class B cement. Circulated cement to surface. SI well.
9. Cut off wellhead & erect dry hole marker. Operations complete 4/8/87.

NOTE: Location will be seeded between July 1st and Sept 15 1987 with the prescribed seed mix.

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

SIGNED Chas A. Klever TITLE Area Superintendent DATE 4/23/87

(This space for Federal or State office use)

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

**ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**

BLM (6) UOGCC (2) Navajo Tribe Mobil Oil JNH

\*See Instructions on Reverse Side

DATE 5-4-87  
BY: [Signature]

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP  
(Other instruction  
verse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

I-149-IND-8834

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED  
DEC 02 1987

7. UNIT AGREEMENT NAME

Aneth Unit

8. FARM OR LEASE NAME

9. WELL NO.

H215

10. FIELD AND POOL, OR WILDCAT

Aneth

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

Sec 15, T40S, R24E

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Texaco Inc. (303) 565-8401

3. ADDRESS OF OPERATOR  
P.O. Box EE, Cortez, Colo. 81321

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

1890' FNL and 500' FEL

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

4710' KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other) location restoration

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

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

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

The subject well has been reseeded with the perscribed seed mix and is ready for final inspection.

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

SIGNED Alan G. Klever TITLE Area Superintendent DATE 11/23/87

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

BLM (4) UOGCC (3) Navajo Tribe - Mobil Oil - LAA - AAK

\*See Instructions on Reverse Side

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

FORM NO. DOGM-UIC-1

IN THE MATTER OF THE APPLICATION OF

Texaco Inc.  
 ADDRESS P. O. Box EE  
Cortez, Colorado ZIP 81321  
 INDIVIDUAL  PARTNERSHIP  CORPORATION   
 FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR  
 INJECT FLUID INTO THE A.U. H215 WELL  
 SEC. 15 TWP. 40S RANGE 24E  
San Juan COUNTY, UTAH

CAUSE NO. \_\_\_\_\_

ENHANCED RECOVERY INJ. WELL	<input checked="" type="checkbox"/>
DISPOSAL WELL	<input type="checkbox"/>

APPLICATION

Comes now the applicant and shows the Division the following:

- That Rule 1-5 (b) 6 authorizes administrative approval of enhanced recovery injections or disposal operations.
- That the applicant submits the following information.

Lease Name Aneth Unit	Well No. H215	Field Aneth	County San Juan
Location of Enhanced Recovery Injection or Disposal Well <u>SE 1/4 - NE 1/4</u> Sec. <u>15</u> Twp. <u>40S</u> Rge. <u>24E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Test Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Date _____	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>1000'</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		State What Oil & Gas
Location of Aneth Unit Producing Injection Source(s) wells & San Juan River	Geologic Name(s) Desert Creek & Ismay and Depth of Source(s) +/- 5600'		
Geologic Name of Injection Zone Paradox: <u>Desert Creek</u>	Depth of Injection Interval <u>5538</u> to <u>5656</u>		
a. Top of the Perforated Interval: <u>5538'</u>	b. Base of Fresh Water: <u>1000'</u>	c. Intervening Thickness (a minus b) <u>4538'</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? <input checked="" type="checkbox"/> YES <input type="checkbox"/> 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			
<u>The Navajo Tribe</u>			
<u>Box 146</u>			
<u>Window Rock, Arizona 86515</u>			

State of Colorado, Alvin R. Marx Field Supt.  
Montezuma Applicant  
 County of \_\_\_\_\_

Refers me, the undersigned authority, on this day personally appeared Alvin R. Marx  
 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., 1983

SEAL

My commission expires 10/25/87

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

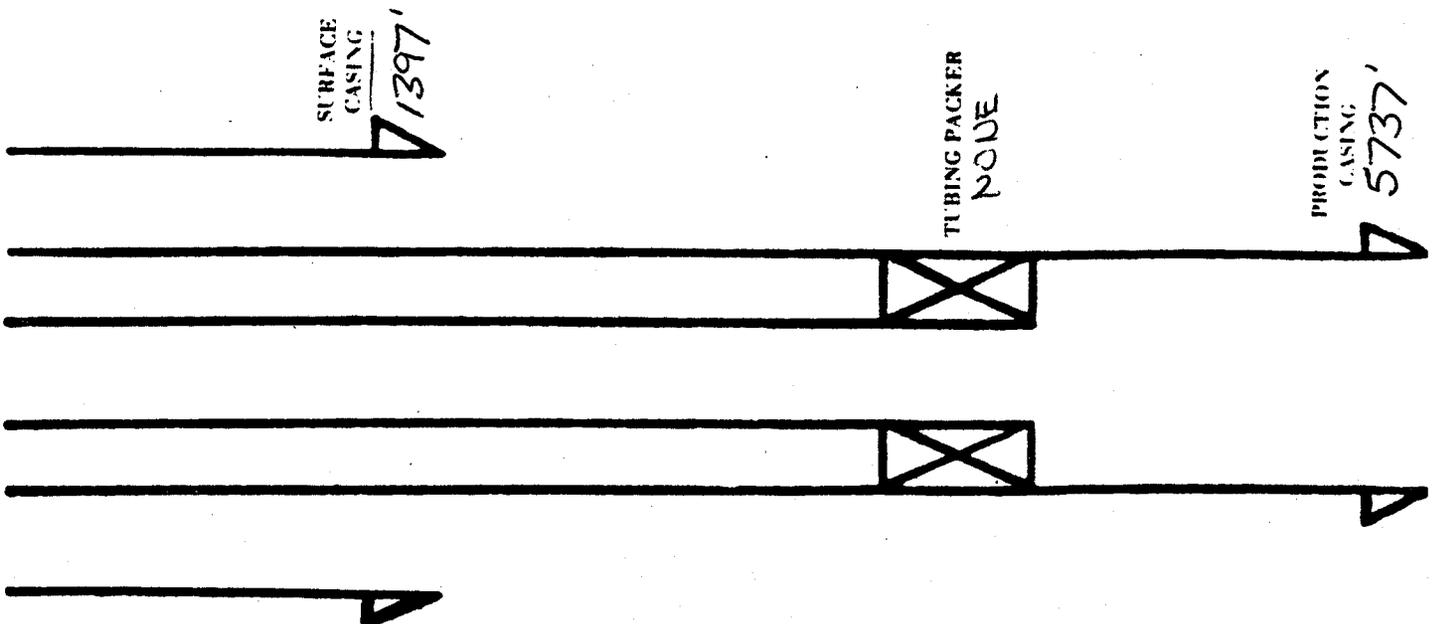
(OVER)

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 1/2 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 1/2 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	9 5/8"	1397'	800	Surface	Circulated
Intermediate					
Production	5 1/2"	5737	500	4405	Calculated
Tubing	NONE -	CURRENTLY TA	Name - Type - Depth of Tubing Packer		
Total Depth, 5745		Geologic Name - Inj. Zone, Desert Creek		Depth - Top of Inj. Interval, 5538	
				Depth - Base of Inj. Interval, 5656	

SKETCH - SUBSURFACE FACILITY



PLEASE TYPE OR USE BLACK INK ONLY

(To be filed within 30 days after drilling is completed) I-144-JNO-8834

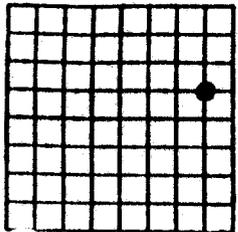
DEPARTMENT OF NATURAL RESOURCES AND ENERGY

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

COUNTY  
LEASE NO.

API NO

640 Acres



COUNTY San Juan SEC. 15 TWP. 40S RGE. 24E  
COMPANY OPERATING Texaco Inc.  
OFFICE ADDRESS P O Box EE  
TOWN Cortez STATE CO ZIP 81321  
FARM NAME Aneth Unit WELL NO. H215  
DRILLING STARTED 7/18 1957 DRILLING FINISHED 8/15 1957  
DATE OF FIRST PRODUCTION 8/21/57 COMPLETED 8/21/57  
WELL LOCATED - N SE N NE N  
3300 FT. FROM SE OF 1/4 SEC. & 4620 FT. FROM W1 OF 1/4 SEC.  
ELEVATION DERRICK FLOOR 4710 GROUND 4700'

TYPE COMPLETION

Single Zone Desert Creek Order No. \_\_\_\_\_  
Multiple Zone \_\_\_\_\_ Order No. \_\_\_\_\_  
Comingled \_\_\_\_\_ Order No. \_\_\_\_\_  
LOCATION EXCEPTION \_\_\_\_\_ Order No. \_\_\_\_\_ Penalty \_\_\_\_\_

OIL OR GAS ZONES

Name	From	To	Name	From	To
<u>Desert Creek</u>	<u>5538</u>	<u>5656</u>			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt	Grade	Feet	Psi	Set	Fillup	Top
<u>9 5/8"</u>	<u>32.3 #/ft</u>		<u>1397'</u>	<u>1000</u>	<u>800</u>	<u>-</u>	<u>Surface</u>
<u>5 1/2"</u>	<u>14.5 #/ft</u>		<u>5737</u>	<u>600</u>	<u>500</u>	<u>5701</u>	<u>4405-Calc</u>

TOTAL DEPTH 5745

PACKERS SET DEPTH None at present - currently TA  
Evaluating Abandonment due to casing problems.

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	1	2	3
Desert Creek	Desert Creek	Ismay	Desert Creek
SPACING & SPACING ORDER NO.	40 acre	40 acre	40 ACRE
CLASSIFICATION (Oil; Gas; Dry; Inf. Well)	8/22/57 OIL WELL		11/21/56 COM. W/WT
PERFORATED	5538-5558		5626-56
INTERVALS	5567-5607		Acidized w 2500 gals Acid
ACIDIZED?	2500 gals 15% HCL		5538-5607 Acidized w/ 4500 gals Acid
FRACTURE TREATED?	NO		NO

INITIAL TEST DATA

Date	<u>8/22/57</u>		
Oil. bbl./day	<u>1170 BOPD</u>		
Oil Gravity	<u>39.9</u>		
Gas. Co. Ft./day	<u>-</u>	<u>CF</u>	<u>CF</u>
Gas-Oil Ratio Co. Ft./Bbl.	<u>-</u>		
Water-Bbl./day	<u>24 BWPD</u>		<u>NA</u>
Pumping or Flowing	<u>Flowing</u>		
CHOKE SIZE	<u>NA</u>		
FLOW TUBING PRESSURE	<u>NA</u>		

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 Alvin R. Mary Field Supt.  
State of Colorado Name and title of representative of company

County of Montezuma  
Subscribed and sworn before me this 16th day of December 1983  
My commission expires 10/25/87 John R. Roybal  
728 N. Beech, Cortez, Co. 81321

TEXACO

INSTRUCTIONS - CANCELS LETTER(S) OF \_\_\_\_\_ SIGNED BY \_\_\_\_\_  
 PERMANENT     ROUTINE     TEMPORARY

\_\_\_\_\_  
 (LOCATION) (DATE) 19\_\_

Subject: Water Analysis from Navajo Aquifer

Aneth Unit H415

Location - SE 1/4 - SE 1/4 Sec 15, T40S, R24E

Sample Date - 1-17-59

Depth - Navajo Aquifer

Temp - 67°F

Ph - 8.7

Total Dissolved Solids - 2573 ppm

SiO<sub>2</sub> - 16 ppm

CO<sub>3</sub><sup>=</sup> - 130 ppm

Ca<sup>+</sup> - 7 ppm

HCO<sub>3</sub><sup>-</sup> - 156 ppm

Mg<sup>++</sup> - 28 ppm

SO<sub>4</sub><sup>=</sup> - 599 ppm

Na<sup>+</sup> - 76 ppm

Cl<sup>-</sup> - 757 ppm

Aneth Unit G422

Location - SW 1/4 - SE 1/4 Sec 22, T40S, R24E

Sample Date - 1-18-59

Depth - Navajo Aquifer

Temp - 67°F

Ph - 9.2

Total Dissolved Solids - 2823 ppm

SiO<sub>2</sub> - 17 ppm

CO<sub>3</sub><sup>=</sup> - 925 ppm

Ca<sup>+</sup> - 6 ppm

HCO<sub>3</sub><sup>-</sup> - 912 ppm

Mg<sup>++</sup> - 8 ppm

SO<sub>4</sub><sup>=</sup> - 265 ppm

Na<sup>+</sup> - 915 ppm

Cl<sup>-</sup> - 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

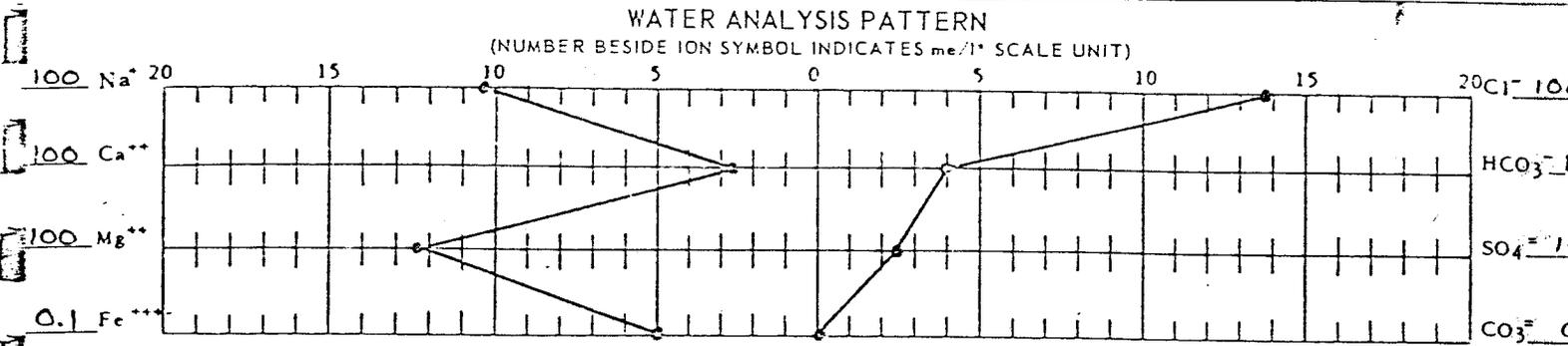
By \_\_\_\_\_

WATER ANALYSIS REPORT

NL Treating Chemicals/NL Industries, Inc.

P.O. Box 1675, Houston, Texas 77001

COMPANY <b>TEXACO, INCORPORATED</b>						SHEET NUMBER 1	
FIELD <b>ANETH</b>						DATE <b>5 APRIL 1982</b>	
WELL(S) NAME OR NO. <b>INJECTION WATER</b>				COUNTY OR PARISH <b>SAN JUAN</b>		STATE <b>UTAH</b>	
LEASE OR UNIT <b>ANETH</b>		SAMPLE SOURCE <b>PLANT</b>		WATER, EBL/DAY		OIL, BBL/DAY	
DEPTH, FT.		BHT, F		GAS, MMCF/DAY			
DATE SAMPLED <b>6 APRIL 1982</b>		TYPE OF WATER <input type="checkbox"/> PRODUCED <input checked="" type="checkbox"/> SUPPLY <input checked="" type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPO.					



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	392.0	
Calcium, Ca <sup>++</sup>	268.0	5360.0
Magnesium, Mg <sup>++</sup>	124.0	1519.0
Iron (Total) Fe <sup>+++</sup>	0.5	10.0
Barium, Ba <sup>++</sup>	—	1.0
Sodium, Na <sup>+</sup> (calc.)	1035.1	23807.3

DISSOLVED GASES

Hydrogen Sulfide, H <sub>2</sub> S	337.5 mg/l*
Carbon Dioxide, CO <sub>2</sub>	185.0 mg/l*
Oxygen, O <sub>2</sub>	1.0 mg/l*

ANIONS	me/l*	mg/l*
Chloride, Cl <sup>-</sup>	1380.3	49600.0
Sulfate, SO <sub>4</sub> <sup>=</sup>	24.5	1175.0
Carbonate, CO <sub>3</sub> <sup>=</sup>	0.0	0.0
Bicarbonate, HCO <sub>3</sub> <sup>-</sup>	4.0	244.0
Hydroxyl, OH <sup>-</sup>	0.0	0.0
Sulfide, S <sup>=</sup>	18.8	300.0

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 <sub>4</sub> Solubility @ 77 F	306.6 me/l*
@ 176 F	306.8 me/l*
Max. CaSO <sub>4</sub> Possible (calc.)	24.5 me/l*
Max. BaSO <sub>4</sub> Possible (calc.)	1.0 mg/l*
Residual Hydrocarbons	N.D. ppm(Vol)

SUSPENDED SOLIDS (QUALITATIVE)

Iron Sulfide  Iron Oxide  Calcium Carbonate  Acid Insoluble

REMARKS AND RECOMMENDATIONS:

WATER SHOWS A TENDENCY TOWARD SCALING; PRIMARILY CALCIUM CARBONATE

\* NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made to specific gravity.

BTC ENGINEER <b>MARK BROTHERS</b>	DIST. NO. <b>12</b>	ADDRESS <b>FARMINGTON, N.M.</b>	OFFICE PHONE <b>505-325-5701</b>	HOME PHONE <b>505-325-48</b>
ANALYZED	DATE	DISTRIBUTION		

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW  
\* \* \* \* \*

Operator: Idaho Well No. anmtt Unit H 215  
 County: San Juan T 405 R 24E Sec. 15 API# 43-037-16311  
 New Well  Conversion  Disposal Well  Enhanced Recovery Well

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

Fluid Source Desert Creek - Johnny

Analysis of Injection Fluid	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	TDS <u>71385</u>
Analysis of Water in Formation to be injected into	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	TDS <u>81385</u>
Known USDW in area	<u>Johnny</u>	Depth <u>1000</u>	
Number of wells in area of review	<u>12</u>	Prod. <u>6</u>	P&A <u>1</u>
		Water <u>        </u>	Inj. <u>5</u>
Aquifer Exemption	Yes <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Mechanical Integrity Test	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Date	<u>        </u>	Type	<u>        </u>

Comments: TOC 4405

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Reviewed by: [Signature]