

9-2-76 - Subsequent report of converting to
Water injection -

FILE NOTATIONS	
Entered in N I D File	<input checked="" type="checkbox"/>
Entered On S R Sheet	<input type="checkbox"/>
Location Map Pinned	<input checked="" type="checkbox"/>
Card Indexed	<input checked="" type="checkbox"/>
I W R for State or Fee Land	<input type="checkbox"/>
Checked by Chief	<u>RPS</u>
Copy N I D to Field Office	<input checked="" type="checkbox"/>
Approval Letter	<input checked="" type="checkbox"/>
Disapproval Letter	<input type="checkbox"/>

COMPLETION DATA:

Date Well Completed	<u>10-2-60</u>	Location Inspected	<input type="checkbox"/>	
OW <input checked="" type="checkbox"/>	WW <input type="checkbox"/>	TA <input type="checkbox"/>	Bond released	<input type="checkbox"/>
GW <input type="checkbox"/>	OS <input type="checkbox"/>	PA <input type="checkbox"/>	State of Fee Land	<input type="checkbox"/>

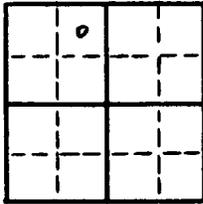
LOGS FILED

Driller's Log 11-18-60

Electric Logs (No.) 3

E <input checked="" type="checkbox"/>	E-I <input type="checkbox"/>	GR <input type="checkbox"/>	GR-N <input checked="" type="checkbox"/>	Micro <input type="checkbox"/>
Lat <input type="checkbox"/>	Mi-L <input type="checkbox"/>	Sonic <input checked="" type="checkbox"/>	Others <input type="checkbox"/>	<input type="checkbox"/>

DME
3-27-91



STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

STATE CAPITOL BUILDING
SALT LAKE CITY 14, UTAH

Fee and Patented.....
State
Lease No.
Public Domain
Lease No.
Indian Navajo
Lease No. 14-20-603-2055

Sec. 27 (See Plat attached)

SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill.....	<input checked="" type="checkbox"/>	Subsequent Report of Water Shut-off.....	
Notice of Intention to Change Plans.....		Subsequent Report of Altering Casing.....	
Notice of Intention to Redrill or Repair.....		Subsequent Report of Redrilling or Repair.....	
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 22, 19 60

East Aneth

Well No. 27-B1 is located 660 ft. from {N} line and ²¹³⁰~~1980~~ ft. from {W} line of Sec. 27

NE-NW Sec. 27 40S 26E Salt Lake
(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 feet. (will be reported later)

A drilling and plugging bond has been filed with U. S. Government.....

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 work, surface formation, and date anticipate spudding-in.)

Proposed Casing Program:

- 75' - 13-3/8" Conductor (Cemented to surface)
- 1500' - 9-5/8" Surface casing (Cemented to surface)
- 6000' - 5-1/2" Production String (Approx. 200 sx.)

Principal objective is the Paradox Formation.

Estimated Total Depth 6,000'.

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

Company The Pure Oil Company

Address 1575 Sherman By Fred H. Kirby

Denver 19, Colorado Title Asst. Chief Div. Prod. Clerk

INSTRUCTIONS: 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.

THE PURE OIL COMPANY LOCATION REPORT

Date August 18, 1960

A.F.E. No. 330

Division Rocky Mountain Producing Prospect District East Aneth

Lease Navajo (14-20-603-2055)
East Aneth

Acres 800.80 (1/3 of 2402.40)
Lease No. 7063

Elevation _____ Well No. 27-B1 (Serial No. _____)

Quadrangle NE NW Sec. 27 Twp. 40 S Rge. 26 E

Blk. Dist. Twp.

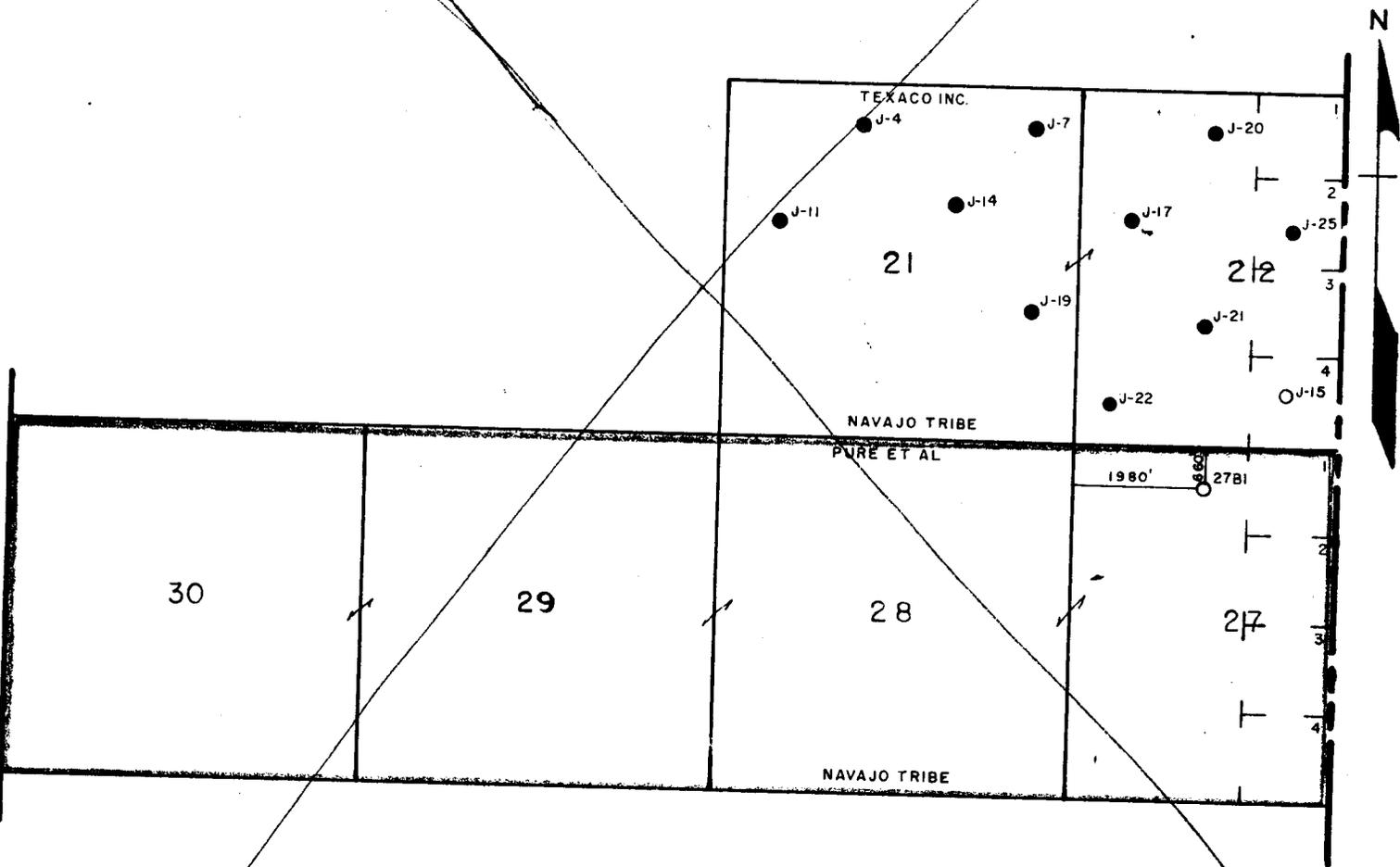
Survey Salt Lake Meridian County San Juan State Utah

Operator The Pure Oil Company Map 1

660 Feet South of the North line of Section
1980 Feet East of the West line of Section
Feet _____ of the _____ line of _____
Feet _____ of the _____ line of _____

LEGEND
○ Location

- ☀ Gas Well
- Oil Well
- ☀ Gas-Distillate Well
- ⊘ or ⊙ Dry Hole
- ⊘ Abandoned Location
- ☀ or ☀ Abandoned Gas Well
- or ● Abandoned Oil Well
- or ⊙ Input Well



Remarks: The Pure Oil Company (Operator) 33-1/3%
Sun Oil Company 33-1/3%
Ohio Oil Company 33-1/3%

Scale 2" = 1 MILE

Submitted by [Signature]
Civil Engineer

Approved by _____
Division Manager

Approved by _____
Vice-President—General Manager

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

NORTHERN PRODUCING DIVISION

MOUNTAIN AREA OPERATIONS

1575 SHERMAN STREET

DENVER 3, COLORADO

August 26, 1960

C. B. Feight, Secretary
Utah Oil and Gas Conservation Committee
310 Newhouse Building
Salt Lake City, Utah

Attention: C. B. Feight

Dear Sir:

We are enclosing in duplicate Notice of Intention to Drill East Aneth No. 27-B1 located in Section 27-40S-26E, San Juan County, Utah.

The responsibility for filing all future reports on this well is being transferred to our district office. Therefore, we would appreciate your transmitting the approved Notice of Intention to Drill and/or any other correspondence covering this well to The Pure Oil Company, P. O. Box 265, Moab, Utah, attention Mr. W. W. Weir.

Yours very truly


Fred H. Kirby

FHK:jw

Enclosures

cc & encls: W. W. Weir

18

August 30, 1960

The Pure Oil Company
P. O. Box 265
Moab, Utah

Attention: Mr. W. W. Weir

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. East Aneth 27-11, which is to be located 660 feet from the north line and 1980 feet from the west line of Section 27, Township 40 South, Range 26 East, S1M, 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 has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT,
EXECUTIVE SECRETARY

CHP:awg

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



Awls

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ALLOTTEE Window Book
TRIBE Navajo Tribal - Tract 158
LEASE NO. 11-20-603-2035

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field East Aneth

The following is a correct report of operations and production (including drilling and producing wells) for the month of August, 1960,

Agent's address P. O. Box 265 Company The Pure Oil Company

Moab, Utah

Signed J. B. Strong

Phone Alpine 3-3581 Agent's title District Chief Clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE NW Sec. 27	408	26E	27-11	-0-			Location: 660' from north line and 1980' from west line. Ground elevation 5338'. Spudded 8-27-60. Drilled to 62'. Set 13-3/8" OD casing at 62', cemented with 60 sx HA 5 cement. Drilled to 1500'. Set 9-5/8" OD casing at 1485', cemented with 600 sx 50-50 Pozmix with 4 percent gel followed with 100 sx regular cement with 2 percent Calcium Chloride. Drilled to 2063'.			

NOTE.—There were No runs or sales of oil; No M. cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ALLIANCE Window Rock
TRIBE Navajo Tribal - Tract 158
LEASE NO. 11-20-603-2055

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field East Aneth

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1960,

Agent's address P. O. Box 265 Company The Pure Oil Company
Moab, Utah Signed J. Blum

Phone Alpine 3-3581 Agent's title District Chief Clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<u>N 1/4 Sec. 27</u>	<u>40S</u>	<u>26E</u>	<u>27-B1</u>	<u>-0-</u>						<u>Drilled 2063 - 5854. Cored to 5980. Drilled to 6072 TD. DST #1 5787-5877. DST #2 5876-5921. DST #3 5987-6072. Drilling completed 9-25-60. Set 5-1/2" OD casing at 6010 with 100 sax of regular and 100 sax of Latex cement. Perforated with 4 shots per foot 5900 - 5906. Set HOWCO RTTS packer at 5884. Acidized with 2000 gals. of acid through above perforations.</u>

NOTE.—There were No runs or sales of oil; No M. cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

NORTHERN PRODUCING DIVISION

MOUNTAIN AREA OPERATIONS

1575 SHERMAN STREET

DENVER 3, COLORADO

October 17, 1960

Utah Oil and Gas Conservation Commission
310 Newhouse Building
Salt Lake City, Utah

Attention: Cleon B. Feight

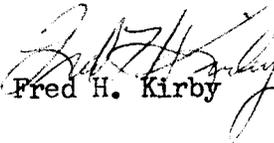
Dear Mr. Feight:

We are enclosing in duplicate corrected location of our East Aneth 27-B1, located in Section 27-10S-26E, San Juan County, Utah. This revised plat has been prepared and verified by the San Juan Engineering Company, of Farmington, New Mexico, the company which also originally staked this location.

Originally this location was staked 660' from the north line and 1980' from the west line of Section 27. Sometime between the time that this location was originally staked and the time the rig was moved in to drill the well, the stake was moved to the present location by parties unknown. As shown by the enclosed plats, the location of the well is now 660' from the north line and 2230' from the west line of Section 27.

If additional information is desired, please advise.

Yours very truly,


Fred H. Kirby

FHK:sm

Enclosures

cc: U.S.G.S. - Farmington, New Mexico
Sun Oil Company - Denver, Colorado
The Ohio Oil Company - Casper, Wyoming

A copy of this letter + the corrected plat were sent to Harvey 10-18-60

COMPANY **PURE OIL COMPANY**

Well Name & No. **NAVAJO TRACT 158, Well # 1**

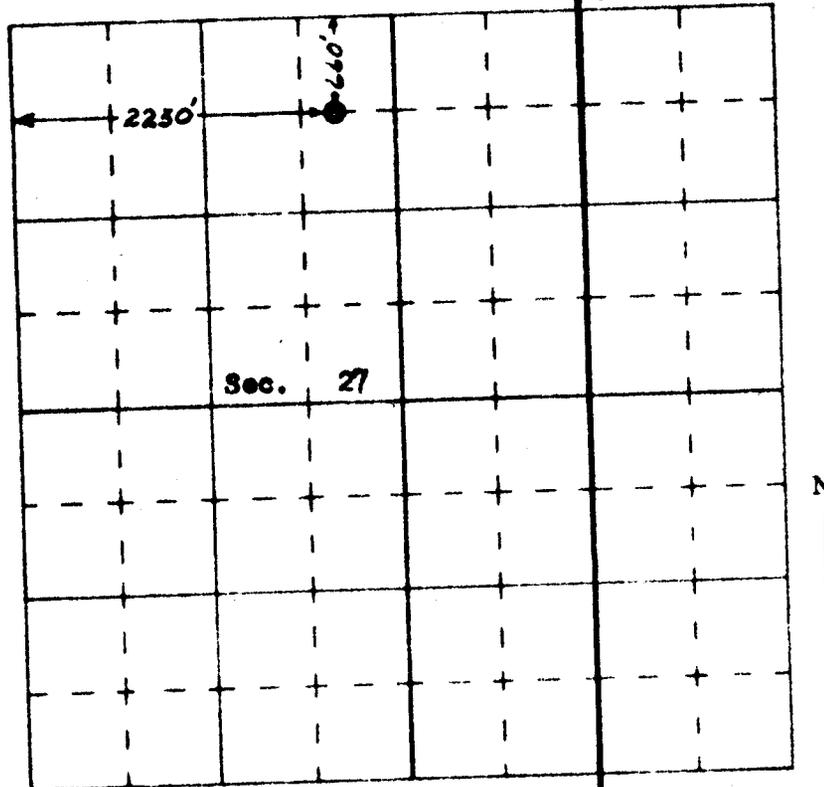
Lease No.

Location **660' FROM THE NORTH LINE & 2230' FROM THE WEST LINE**

Being in **W $\frac{1}{2}$ NE NW**

Sec. **27**, T **40 S**, R **26 E**, S.L.M., San Juan County Utah

Ground Elevation **5236** graded ground



Scale — 4 inches equals 1 mile

Surveyed **3 October**, 19 **60**

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

James P. Leese

Registered Land Surveyor.

James P. Leese

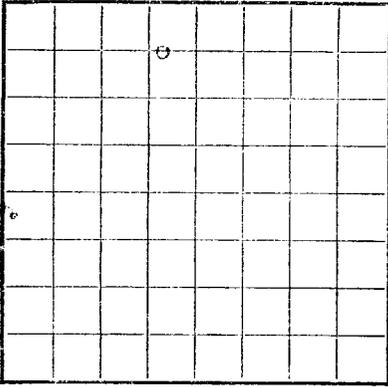
Utah Reg. No. 1472

SAN JUAN ENGINEERING CO., FARMINGTON, NEW MEXICO

Indian Agency: Navajo

U.S. LAND OFFICE
SERIAL NUMBER 14-20-603-2055

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Pure Oil Company Address P. O. Box 265, Hoop, Utah
 Lessor or Tract U. S. Government, Tract 158 Field East Aneth State Utah
East Aneth
 Well No. 27-31 Sec. 27 T40-S R. 26-E Meridian Salt Lake County San Juan KT 5348'
 Location 660 ft. N. of N. Line and 2230 ft. E. of W. Line of NE 1/4, Sec. 27 Elevation Gr. 5338'
(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 _____

Date November 17, 1960 Title District Chief Clerk

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

Commenced drilling August 27, 19 60 Finished drilling September 25, 19 60

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5900' to 5906' 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		Purpose
							From—	To—	
<u>13-3/8"</u>	<u>18.8</u>	<u>8-1/2"</u>	<u>SS</u>	<u>62'</u>	<u>Coupling</u>				<u>Cemented to surface</u>
<u>9-5/8"</u>	<u>16.5</u>	<u>8-1/2"</u>	<u>SS</u>	<u>1185'</u>	<u>Float</u>				<u>Cemented to surface</u>
<u>5-1/2"</u>	<u>11.7</u>	<u>8-1/2"</u>	<u>SS</u>	<u>6010'</u>	<u>Float</u>		<u>5900'</u>	<u>5906'</u>	<u>Production.</u>
	<u>15.5</u>								

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8"</u>	<u>62'</u>	<u>60 sacks</u>	<u>Halliburton</u>		
<u>9-5/8"</u>	<u>1185'</u>	<u>700 sacks</u>	<u>Halliburton</u>		
<u>5-1/2"</u>	<u>6010'</u>	<u>200 sacks</u>	<u>Halliburton</u>		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

FOLD MARK

15.54

MUDDING AND CEMENTING RECORD

FOLD MARK

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/4"	62'	60 sacks	Halliburton		
9-5/8"	1485'	700 sacks	Halliburton		
5-1/2"	6010'	200 sacks	Halliburton		

PLUGS AND ADAPTERS

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

Rotary tools were used from zero feet to 6072 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

November 3, 19 60. Put to producing October 2, 19 60.

The production for the first 24 hours was 347 barrels of fluid of which 100% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. 45.0

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-	752'	752'	Sand.
752'	1500'	748'	Shale.
1500'	2063'	563'	Sand and shale.
2063'	3069'	1006'	Shale.
3069'	3510'	441'	Sand and shale.
3510'	3800'	290'	Shale and anhydrite.
3800'	4050'	254'	Anhydrite.
4054'	4300'	246'	Lime and anhydrite.
4300'	4526'	226'	Shale and lime with lime streaks.
4526'	4762'	236'	Lime and anhydrite.
4762'	4896'	134'	Anhydrite.
4896'	5245'	349'	Lime and shale.
5245'	5352'	107'	Lime.
5352'	5634'	282'	Lime and shale.
5634'	5800'	166'	Lime.
5800'	5856'	56'	Core No. 1 - See reverse side.
5856'	5877'	21'	Core No. 2 - See reverse side.
5877'	5921'	44'	Core No. 3 - See reverse side.
5921'	5980'	59'	Core No. 4 - See reverse side.
5980'	6072'	92'	Anhydrite and shale.
		6072'	TOTAL DEPTH

FORMATION RECORD—Continued

(OLE 3)

12-10-1914

FROM—	TO—	TOTAL FEET	FORMATION
<u>CORE NO. 1</u>	5800' - 5856'	Out 56' - Recovered 53'	<p>8' - Dolomite, gray brown, fine xln. large inclusions of white xln, anhydrite, stain and odor, no visible porosity.</p> <p>10' - Limestone, medium to dark gray, fine xln, dense, trace of vugular porosity from 5813'-5814'; also has large anhydrite inclusions as above.</p> <p>3' - Dolomite, dark gray to brown, earthy, no visible porosity, odor on breaks.</p> <p>1' - Shale, dark gray.</p> <p>12' - Dolomite, gray brown, fine xln, no visible porosity, odor on break.</p> <p>16' - Limestone, dolomitic, white anhydrite inclusions, poor to fair small vugular porosity, stain and odor on fresh break, no bleeding.</p> <p>3' - Limestone, gray, fine xln, dense, white anhydrite inclusions.</p>
<p>Started in hole with DST tool. Hydraulic on rig went out. Down 1 1/2 hours repairing same.</p>			
<u>CORE NO. 2</u>	5856' - 5877'	Out and Recovered 21'	<p>5' - Dolomite, gray brown, fine xln, no visible porosity, stain and odor on break, anhydrite inclusions.</p> <p>5' - Limestone, dark gray, fine xln, dense, with anhydrite inclusions.</p> <p>1' - Limestone, medium gray, fine xln, good collicastic porosity, good stain and odor, bleeding oil and gas.</p> <p>8-1/2' - Limestone, medium to dark gray, fine xln, dense, few black shale partings.</p> <p>1' - Limestone, as above, with poor vugular porosity, slight bleeding of oil.</p> <p>1/2' - Limestone, as above, with good small vugular porosity, bleeding oil and gas.</p>
<u>CORE NO. 3</u>	5877' - 5921'	Out 44' - Recovered 10'	<p>2' - Limestone, medium gray, fine xln, with fair small vugular porosity, good stain and odor, bleeding oil and gas.</p> <p>4' - Limestone, as above, with good large vugular porosity, bleeding green oil and gas.</p> <p>4' - Limestone, as above, with poor small vugular porosity, bleeding light green oil.</p>
<u>CORE NO. 4</u>	5921' - 5980'	Out and Recovered 59'	<p>4-1/2' - Dolomite, medium gray, fine xln, poor pin point porosity, spotted stain and odor.</p> <p>1/2' - Shale, black poker chip.</p> <p>10' - Limestone, dark gray, fine xln, dense</p>
<p>HALLIBURTON DST NO. 1, Upper Ismay, 5787' - 5877'. Tool open one hour, air immediately, gas to surface in 5 minutes. Good blow throughout test. Not enough to fill. Pressures: 30 mm Hg for 2 1/2 hrs. 29 mm Hg for 1 1/2 hrs. Bottom Hole Temperature 115°.</p>			
<p>REAM 2 1/2" 2 1/2"</p>			

HISTORY OF OIL OR GAS WELL

To have a complete history of the well. Please state in detail the dates of redrilling, together

HO
New Sale

AK

Budget Bureau No. 42 R714.4
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ALLOTTEE Window Rock
TRACT Navajo Tribal - Tract 158
LEASE NO. 14-20-603-2055

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field East Aneth

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1960,

Agent's address P. O. Box 265 Company The Pure Oil Company
Heath, Utah Signed [Signature]

Phone Alpine 3-3581 Agent's title District Chief Clark

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE PRODUCED	BARRELS OF WATER (GAS, 82.4 lbs)	REMARKS (If drilling, depth of shut down, cause; date and result of test for gasoline content of gas)
NE 1/4 Sec. 27	40S	26E	27-11	18	7,110	45.0	6,640	-0-	None	After acidizing perforations 5900' - 5906' with 2000 gallons of acid, opened well and well began to flow.

NOTE.—There were See Form 9-361 runs or sales of oil; See Form 9-361 M. cu. ft. of gas sold,

No runs or sales of gasoline during the month. (Write "no" where applicable)

NOTE.—Report on this form is required for each calendar month, regardless of the status of the well, and must be filed duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOTTER Window Rock, Arizona
Tract Navajo Tribal Tract 158
LEASE NO. 14-20-603-2055

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field East Aneth

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1960.

Agent's address P. O. Box 265 Company The Perm Oil Company
Noah, Utah Signed [Signature]
Phone Alpine 3-3581 Agent's title District Chief Clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	Cu. Ft. OF GAS (In thousands)	GALLONS OF GASOLINE RECEIVED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE NW Sec. 27	40S	26E	27-81	30	11,050	45.0	10,321	-	None	Flowing.
NE NE Sec. 28	40S	26E	28-D1	-0-	5866' corrected T.D. by Schlumberger. DST No. 2 5705-5782. DST No. 3 5782-5814. Set 179 jts. of 5-1/2" OD 14# & 15# casing at 5866', cemented with 100 sax regular cement, followed with 100 sax neat cement with latex added. Job complete at 6:00 a.m. 12-3-60. Rig released at 1:00 p.m. 12-3-60. Moved in workover unit 12-7-60. Ran gamma ray collar log. Perforated 5730-5736. Ran 187 jts. of 2-7/8" OD tubing and set at 5729'. Acidized thru perfs 5730-5736 with 2000 gals. 15% Special Low Tension acid. Swabbed well down and shut down overnight. Shut in tubing pressure 80#. Opened well and flowed 8 bbls., mostly oil and died. Swabbed 3 days, recovered approximately 70 bbls. of fluid - 50%-70% oil and 30%-50% salt water. Acidized thru perfs 5730-5736 with 10,000 gals. Special Low Tension acid. Flushed with 35 bbls. fresh water. Opened well to pit, pressure decreased from 2700# to 200# in 10 minutes. Flowed another 15 minutes and died. Fluid at end was acid water. Swabbed 4 days, recovered approximately 75 bbls. of fluid, 10% oil, 80% salt water. Filled tubing, installed valve on head. Operations temporarily suspended 12-21-60.					
SW NE Sec. 27	40S	26E	27-02	-0-	Location 2130' FWL; 1130' FWL, San Juan County, Utah. Spudded 12-13-60. Drilled to 62'. Set 2 jts. 13-3/8" OD 43# J-55 casing at 62' KB with 60 sax regular cement with 3% calcium chloride. Cemented conductor twice more using a total of 125 sax of regular cement. Drilled 62' - 1125'. Set 16 jts. of 36# and 40# 9-5/8" OD casing at 1125' with 600 sax 50-50 Fomax with 4% gal. and 1/4# Floccale and 1/4# Tufplug per sack, followed with 100 sax neat cement with 2% calcium chloride. Job complete 12-19-60. Cemented exterior of pipe with 100 sax neat cement. Drilled 1125' - 1445'.					

Note - There were two runs or sales of oil See Form 2-361 runs or sales of gas See Form 2-361 during the month.

Note - There were no runs or sales of gas during the month. (Wells shut down, including)

Note - Report on this form is required for each calendar month, but if the well is shut down for more than 30 days, a report duplicate with this one is filed by the 8th of the succeeding month, unless otherwise directed by the Bureau.

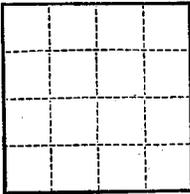
(SUBMIT IN TRIPLICATE)

Indian Agency Havajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee 11-20-601-2055

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

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

April 11, 1961

Well No. 27-21 is located 660 ft. from [N] line and 1960 ft. from [W] line of sec. 27

NE 1/4, Sec. 27 10-S 26-E Salt Lake
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Arnth San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~surface~~ ^{ground} above sea level is 5338 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)

TD 6072' PBD 5975'
3-27-61 thru 3-31-61. Perforated 5-1/2" OD casing 5794'-5800', 5836'-5842' and 5874'-5880' with 4 shots per ft. Acidized thru perfs 5794'-5800' with 2000 gallons 15% low tension acid. Max. press. 1900 lbs, min. press. 1700 lbs. Max. injection rate 3-1/2 bbls per minute. Acidized thru perfs 5836'-5842' with 3000 gallons 15% low tension acid. Max. press. 3000 lbs, min. press. 2700 lbs. At end of flush press, severe. Injection rate 1/2 bbl per minute. Acidized perfs 5794'-5800' with 3000 gallons 15% low tension acid. Max. press. 1550, broke back to 1000 lbs and fell to severe at end of job. Injection rate 1/2 bbl per minute up to last 1000 gallons and then increased to 2 bbls per minute. Scrubbed back 150 bbls acid water and well began flowing at rate of 20 bbls oil per hour thru a ~~4~~ 60/64" choke with 120 lbs tubing press. Cleaned to pit. Turned to tank battery 3-31-61. Well making 30 to 35% water.

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

Company The Pure Oil Company

Address P. O. Box 265

Honab, Utah

By J. S. Strong

Title District Chief Clerk

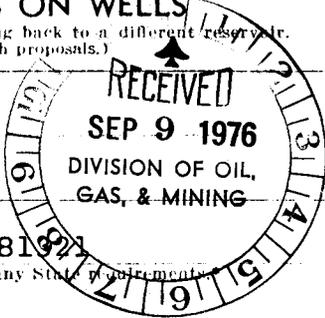
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-2055
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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, Inc.

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

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

14. PERMIT NO. 15. ELEVATIONS (Show whether DE, RT, GR, etc.)
660' from North line and 1980' from West line.
5338' GR

7. UNIT AGREEMENT NAME
Navajo
8. FARM OR LEASE NAME
Ismay Flodine Park Unit

9. WELL NO.
T127
10. FIELD AND POOL, OR WILDCAT

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

12. COUNTY OR PARISH 13. STATE
S27-T40S-R26E

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF PULL OR ALTER CASING
FRACTURE TREAT MULTIPLE COMPLETE
SHOOT OR ACIDIZE ABANDON*
REPAIR WELL CHANGE PLANS
(Other) **Convert to Water Inj.**

SUBSEQUENT REPORT OF:

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

In accordance with UOGCC cause No. 104-1 of 12-16-65, TEXACO plans to convert well no. T127 from oil producing to water injection status as follows:

1. Pull rods and tubing.
2. Perforate 5786-804', 5812-30', 5834-44', 5850-62', 5873-900', 5906-21', w/2JSPF.
3. Acidize perforations with 5600 gallons 28% HCL.
4. Commence water injection.
5. Run radioactive tracer leg after injection stabilizes.

In accordance with paragraph (c) of the above cause, by copy of this notice after obtaining commission approval, the Monsanto and Marathon companies will be notified of TEXACO's intent to commence water injection.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: Sept 13, 1976

BY: P. W. Ansell

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

SIGNED Alvin R. Marx TITLE Field Foreman DATE 9-2-76

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRII
(Other instruction
verse side)

F
B
5. LEASE D

BEST COPY
AVAILABLE

14-20-603-2055-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Ismay Flodine Park U.

8. FARM OR LEASE NAME

9. WELL NO.

T127

10. FIELD AND POOL, OR WILDCAT

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

S27-T40S-R26E

12. COUNTY OR PARISH 13. STATE

San Juan Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

TEXACO, Inc.

3. ADDRESS OF OPERATOR

P. O. Box EE, Cortez, Colol. 81321

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

660' from North line and 1980' from West line.

14. PERMIT NO.

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

5338' GR

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) Convert To Water Inject

(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.)*

6-15-77. MIRUSU. Pulled rods, pump, and tbg. Perf. 5786 - 804',
5812 - 30', 5834 - 44', 5850 - 62', 5873 - 900',
5906 - 21', with 2 JSPF. Run inj. tbg. & packer. Set
packer at 5705'. Put well on injection.
Test: 1038 BWIPD, 0# tbg.

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

SIGNED

Alvin R. Mary

TITLE

Field Foreman

DATE

7-1-77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

USGS(4) UOGCC(3) Navajo Tribe-GLE-ARM-ALE

**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 X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE IFPU - T.127 WELL
SEC. 27 TWP. 40S RANGE 26E
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:

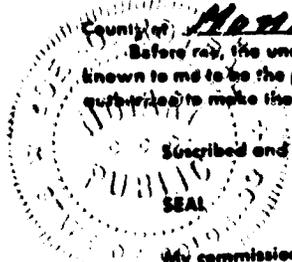
1. That Rule 1-5 (b) 6 authorizes administrative approval of enhanced recovery injections or disposal operations.
2. That the applicant submits the following information.

Lease Name <u>Ismay-Flodine Park</u>	Well No. <u>T127</u>	Field <u>Ismay</u>	County <u>San Juan</u>
Location of Enhanced Recovery Injection or Disposal Well <u>NE 1/4 NW 1/4</u> Sec. <u>27</u> Twp. <u>40S</u> Rge. <u>26E</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 checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>6/77</u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>980'</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		State What <u>Oil & Gas</u>
Location of IFPU Producing Wells and Injection Source(s) <u>3 Source wells</u>	Geologic Name(s) and Depth of Source(s) <u>Ismay +/- 5600</u> <u>Salt Wash, Entrada & Navajo</u> <u>480 - 1215</u>		
Geologic Name of Injection Zone <u>Paradox-Ismay</u>		Depth of Injection Interval <u>5784 to 5721</u>	
a. Top of the Perforated Interval: <u>5784</u>	b. Base of Fresh Water <u>980'</u>	c. Intervening Thickness (a minus b) <u>4806'</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 <u>Sandstone, Limestone, Anhydrite w/intermittent shale layers</u>			
Injection Rates and Pressures Maximum _____ <u>500 B/D</u> <u>2300 PSI</u>			
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. Mary Field Supt.
County of Huerfano) Alvin R. Mary 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, 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



My commission expires 10/25/87

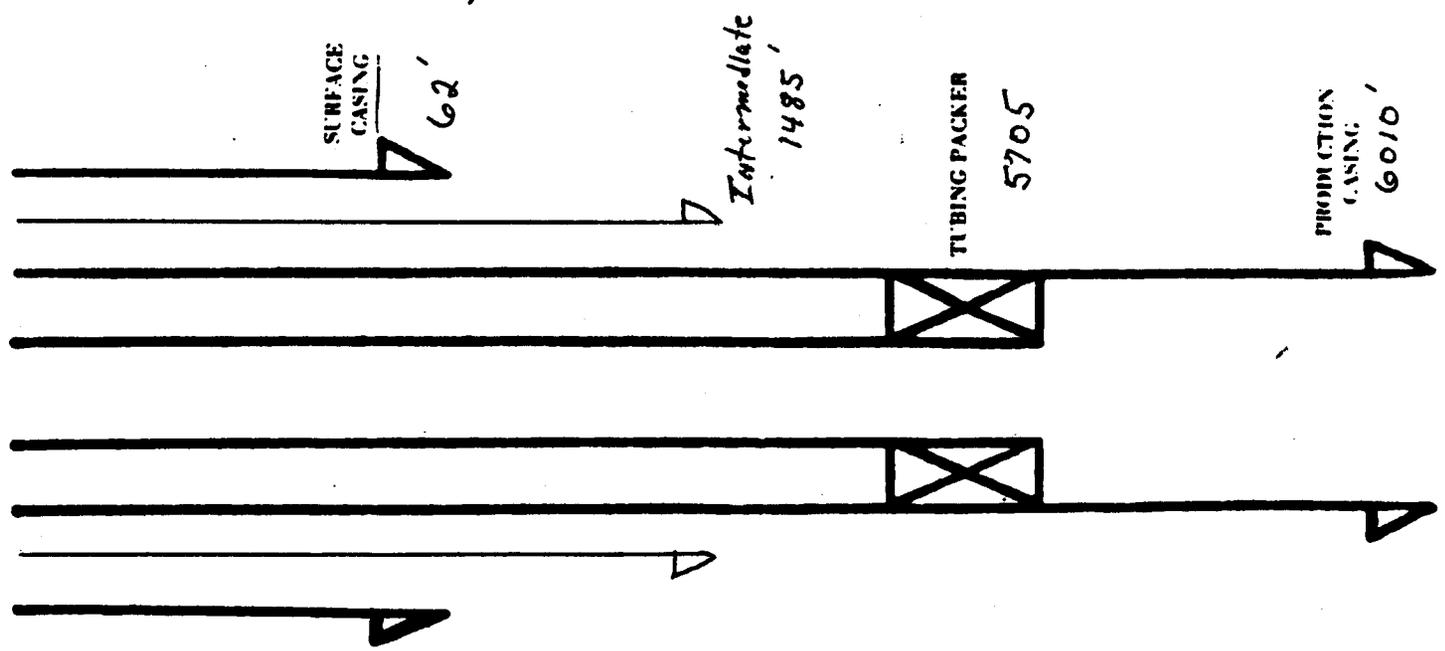
Joe A. Roybal
Notary Public in and for Colorado
728 N. Beech Cortez, Co. 81321

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	13 3/8"	62	60		
Intermediate	9 5/8"	1485	600		
Production	5 1/2"	6010	200		
Tubing	2 3/8"	5705	5 1/2" Name - Type - Depth of Tubing Packer Model R Retrievable		5705
Total Depth	Geologic Name - Inj. Zone		Depth - Top of Inj. Interval		Depth - Base of Inj. Interval
6072	Is may		5784		5921

SKETCH - SUBSURFACE FACILITY



PLEASE TYPE OR USE BLACK INK ONLY

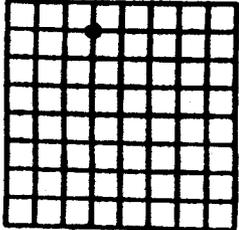
(To be filed within 30 days after drilling is completed) 14-20-603-2055A

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
000 Area
B



Locate the Grounds
and Surface Lease

COUNTY San Juan SEC. 27 TWP. 40S RGE. 26E
COMPANY OPERATING Texaco Inc.
OFFICE ADDRESS P. O. Box EE
TOWN Cortez STATE CO ZIP 81321
FARM NAME Ismay-Flodine WELL NO. 7127
DRILLING STARTED 2-22-60 DRILLING FINISHED MAR 19 61
DATE OF FIRST PRODUCTION _____ COMPLETED 3-31-1961
WELL LOCATED N NE 1/4 NW 1/4
660 FT. FROM NL OF W SEC. & 1990 FT. FROM WL OF S SEC.
ELEVATION BERRICK FLOOR 5348 GROUND 5338

TYPE COMPLETION

Single Zone ISMAY Order No. NA
Multiple Zone _____ Order No. _____
Completions _____ Order No. _____

LOCATION EXCEPTION _____ Order No. _____ Penalty _____

OIL OR GAS ZONES

Name	From	To	Name	From	To
<u>ISMAY</u>	<u>5786</u>	<u>5921</u>			

CASING & CEMENT

Casing Set				Cog. Test	Cement		
Size	Wgt	Grade	Feet	Psi	Set	Fillup	Top
<u>13 7/8"</u>	<u>48</u>		<u>62</u>		<u>60</u>		
<u>9 7/8"</u>	<u>29.3</u>		<u>1485</u>		<u>700</u>		
<u>5 1/2"</u>	<u>14 1/2</u>	<u>J55</u>	<u>6010</u>		<u>200</u>		

TOTAL DEPTH 6072

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	1	2	3
FORMATION	<u>Ismay</u>	<u>ISMAY</u>	
SPACING & SPACING ORDER NO.	<u>80 acre</u>		
CLASSIFICATION (Oil; Gas; Dry; Inf. Well)	<u>OIL</u>	<u>6-15-77</u>	
PERFORATED	<u>5794-5800</u> <u>5836-42</u> <u>5974-80,</u>	<u>5786-04, 5812, 30</u> <u>5834-44, 5850-70</u> <u>5873-5900</u> <u>5906-5921</u>	
INTERVALS			
ACIDIZED?	<u>800 gal 15% Low tension Acid</u>	<u>5600 gal 28% HCL</u>	
FRACTURE TREATED?			

INITIAL TEST DATA

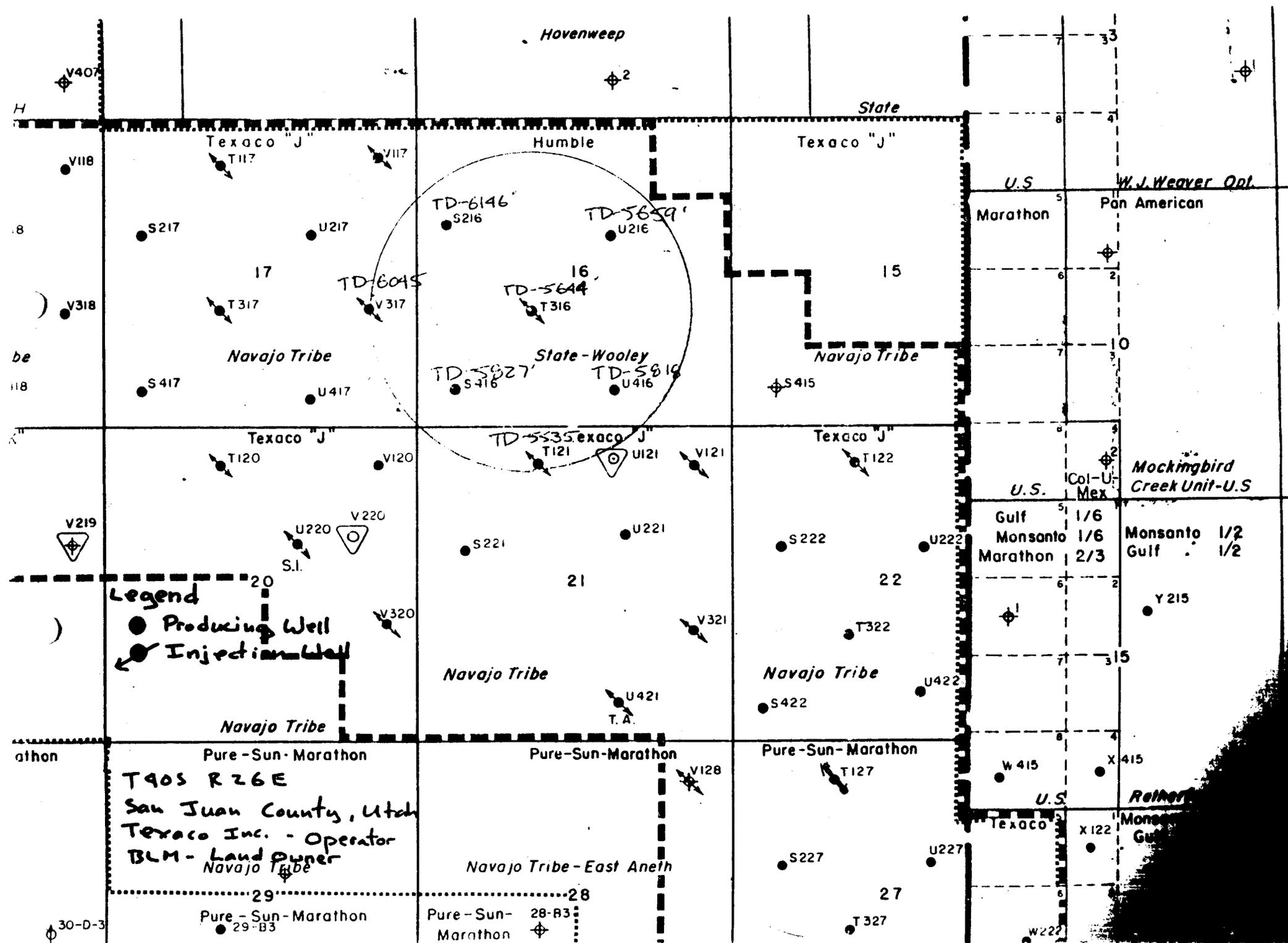
Date	1	2	3
Date	<u>3-31-61</u>	<u>6-15-77</u>	
Oil bbl./day	<u>480 BOPD</u>		
Oil Gravity			
Gas Co. Ft./day			
Gas-Oil Ratio Co. Ft./Bbl.			
Water-Bbl./day		<u>1038 BWIPD</u>	
Pumping or Flowing	<u>Flowing</u>		
CHOKE SIZE	<u>60/64</u>		
FLOW TUBING PRESSURE			

A record of the formations drilled through, and pertinent remarks are presented on the reverse. (see 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 Chris R. Many Field Supt.
State of Colorado Name and title of representative of company
County of Montezuma
Subscribed and sworn before me this 11th day of December, 19 83
My Commission expires for S. Roybal
10/25/87 728 N. Beech, Cortez, Co.
81321

PACKERS SET DEPTH 5705



Hovenweep

State

Texaco "J"

Humble

Texaco "J"

U.S.

W.J. Weaver Opt.

Marathon

Pan American

Navajo Tribe

Navajo Tribe

State-Wooley

U.S.

Col-U-Mex
Mockingbird
Creek Unit-U.S.

Gulf 1/6
Monsanto 1/6
Marathon 2/3

Monsanto 1/2
Gulf 1/2

Legend
 ● Producing Well
 ●↖ Injection Well

Navajo Tribe

Navajo Tribe

Navajo Tribe

Pure-Sun-Marathon

Pure-Sun-Marathon

Pure-Sun-Marathon

U.S.

Reith

TEXACO

Monsanto
Gulf

Pure-Sun-Marathon
29-B3

Pure-Sun-Marathon
28-B3

27

W222

30-D-3

H

8

be

118

K

aithon

17

16

15

Texaco "J"

Texaco "J"

Texaco "J"

20

21

22

29

28

27

33

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

2

U121

U421

28-B3

V407

V117

V317

V219

V320

30-D-3

S217

S417

T120

S221

T905 R 26 E

San Juan County, Utah
Texaco Inc. - Operator
BLM - Land Owner
Navajo Tribe

29-B3

U217

U417

U220

V220

V320

29-B3

TD-6146
S216

TD-5827
S416

TD-5335
T121

S221

S227

TD-5659
U216

TD-5644
T316

TD-5819
U416

U221

U421

28-B3

S222

S422

S227

T322

T127

T327

T122

U222

U422

U227

W 415

W222

U121

Y 215

X 415

X 122

W222



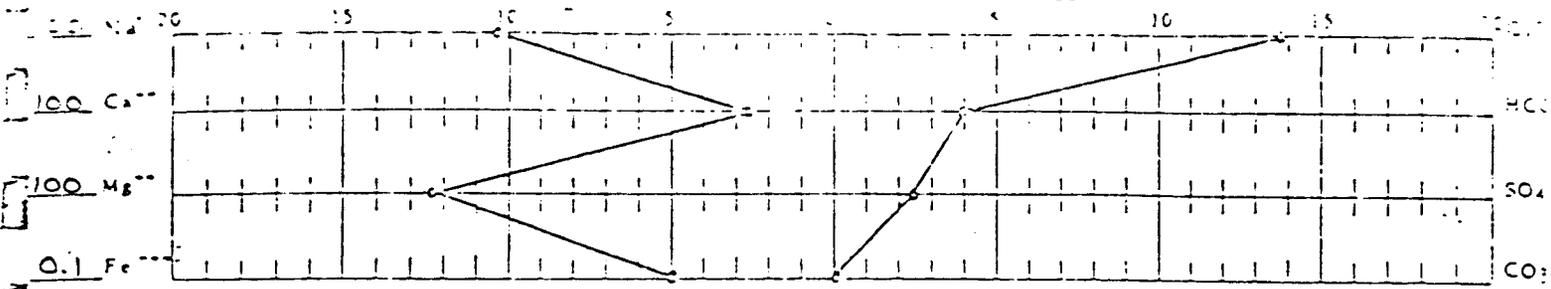
WATER ANALYSIS REPORT

NL Treating Chemicals/NL Industries, Inc.

P.O. Box 1675, Houston, Texas 77001

						SHEET NUMBER 1
COMPANY TEXACO, INCORPORATED						DATE 5 APRIL 1982
FIELD ANETH			COUNTY OR PARISH SAN JUAN		STATE UTAH	
WELL OR UNIT ANETH		WELL OR NAME OR NO. INJECTION WATER		WATER SOURCE (FORMATION)		
DEPTH, FT.	TEMP. F	SAMPLE SOURCE PLANT	TEMP. F	WATER FLOW, GAL/DAY	DIL. FLOW, GAL/DAY	GAL. PRODUCED/DAY
DATE SAMPLED 6 APRIL 1982		TYPE OF WATER <input type="checkbox"/> PRODUCED <input checked="" type="checkbox"/> SUPPLY <input checked="" type="checkbox"/> WATERFLOODED <input type="checkbox"/> SALT WATER				

WATER ANALYSIS PATTERN
(NUMBER OF DEGREE SYMBOL INDICATES mg/l SCALE UNIT)



DISSOLVED SOLIDS

CATIONS	me/l*	me/l*
Total Hardness	392.0	5360.0
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	23607.3

ANIONS	me/l*	me/l*
Chloride, Cl ⁻	1360.3	49000.0
Sulfate, SO ₄ ⁻²	24.5	1175.0
Carbonate, CO ₃ ⁻²	0.0	0.0
Bicarbonate, HCO ₃ ⁻	4.0	224.0
Hydroxyl, OH ⁻	0.0	0.0
Sulfide, S ⁻²	18.8	300.0

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	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. ppmV

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 used, corrections should be made for specific gravity.

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

TEXACO

INSTRUCTIONS - CANCEL LETTERS IF _____ 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

SiO₂ - 16 ppm

CO₃⁼ - 130 ppm

Ca⁺ - 7 ppm

HCO₃⁻ - 156 ppm

Mg⁺⁺ - 28 ppm

SO₄⁼ - 599 ppm

Na⁺ - 76 ppm

Cl⁻ - 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

SiO₂ - 17 ppm

CO₃⁼ - 925 ppm

Ca⁺ - 6 ppm

HCO₃⁻ - 912 ppm

Mg⁺⁺ - 8 ppm

SO₄⁼ - 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, CO
 80201

By _____

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Tenaco Well No. Ismael Florencia T127
 County: San Juan T 40S R 20E Sec. 27 API# 43-037-16232
 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analysis of Injection Fluid	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> TDS <u>81385</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>Always</u>	Depth <u>980'</u>
Number of wells in area of review	<u>7</u> Prcd. <u>6</u> P&A <u>0</u>	
	Water <u>0</u> Inj. <u>1</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	<input type="checkbox"/>	Type <input type="checkbox"/>

Comments: _____

Reviewed by: 

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT INPLICATE*
(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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Injection Well		RECEIVED	
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 660' FNL; 1980' FWL			
14. PERMIT NO.		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5338' GR	
5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-2055-A		7. UNIT AGREEMENT NAME Ismay Flodine Park Un	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo		8. FARM OR LEASE NAME	
9. WELL NO. T127		10. FIELD AND POOL, OR WILDCAT	
11. SEC., T., R., M., OR BLK. AND SUBVY OR AREA Sec. 27, T40S, R26E		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

JUN 13 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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input checked="" 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.)*

Texaco Inc. proposes to cement squeeze a casing leak from 4140'-4155' KB on IFPU T127 as outlined in below procedure. Verbal approval was given by Mr. Earl Beecher of the BLM to David Barge (Texaco U.S.A.) on May 24, 1985 at 2:35 P.M.

1. Isolate Casing Leak.
2. Squeeze W/100 sxs Class B W/2% CaCL2. Final squeeze pressure-1500 psi.
3. Drill out cement.
4. Place back on Injection @ 250 BWIPD.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 6/7/85
BY: [Signature]

18. I hereby certify that the foregoing is true and correct
SIGNED: [Signature] TITLE Area Superintendent DATE 6/7/85

(This space for Federal or State office use)

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

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

*See Instructions on Reverse Side

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

6. LEASE DESIGNATION AND SERIAL NO.

14-20-603-2055-A

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

IsmayFlodineParkUnit

8. FARM OR LEASE NAME

9. WELL NO.

T127

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR B.L.E. AND
SUBST OR AREA

Sec. 27, T40S, R26E

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

RECEIVED
JUL 22 1985

2. NAME OF OPERATOR

Texaco Inc.

3. ADDRESS OF OPERATOR

P.O. Box EE, Cortez, CO. 81321 DIVISION OF OIL

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

660' FNL & 1980' FWL

14. PERMIT NO.

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

5338' GR

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*

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.)

MIRUSU, Pull tbg. & Pkr. Run RBP & Pkr. Set RBP @ 5700' KB pickup 4' set pkr test RBP to 1000# held. Move Pkr up hole isolate csg leak between 4140' & 4155' KB. TOOH W/Pkr. Run tbg, open ended to 4225' KB. Spot 2 sxs sand on RBP. Spot 50 sx class B Cmt w/2% CaCl across leak. Braidenhead squeeze @ 1/2 BPM. Cmt locked up @ 1850# TOOH W/Tbg. Pickup Bit & Scraper TIH. Drill out cmt test csg to 900# held. TOOH W/Bit & scraper. Pickup retrieving run in hole. Release RBP. TOOH Laying down in singles. Pick new Pkr. & 2 3/8 P.C. Tbg. TIH landed Pkr @ 5732' KB. Flange up wellhead RDMOSU place well on injection.

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

SIGNED Ch. R. Mary

TITLE Area Supt.

DATE 7/16/85

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP DATE
(Other instructions reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-2055-A
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME
Ismay Flodine Park Unit

8. FARM OR LEASE NAME

9. WELL NO.

T127

10. FIELD AND POOL, OR WILDCAT

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

Sec. 27, T40S, R26E

12. COUNTY OR PARISH 13. STATE

San Juan

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 Injection Well

RECEIVED

2. NAME OF OPERATOR
Texaco Inc.

SEP 16 1985

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
660' FNL & 2230' FWL

DEPARTMENT OF OIL
GAS & MINING

14. PERMIT NO.

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

5338' GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PCLL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(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.)

In order to increase injectivity and recoverable reserves, Texaco Inc. proposes to reperforate and acidize well No. T127 as follows:

- 1.) TOH W/injection string.
- 2.) Perforate 5786'-804'; 5812'-30'; 5834'-44', 5850'-62'; 5873'-900'; 5906'-21'; W/2 JSPF.
- 3.) Acidize perforations W/6000 gallons 28% Hcl in 4 stages using rock salt as a diverting agent.
- 4.) TIH W/injection string. Inhibit backside. Set Pkr.
- 5.) Commence water injection.

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

SIGNED Ch. R. Mays

TITLE Area Supt.

DATE 9/10/85

(This space for Federal or State office use)

APPROVED BY Clayton Feight
CONDITIONS OF APPROVAL, IF ANY:

TITLE Vic Manager

DATE 10-8-85

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

*See Instructions on Reverse Side

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.)

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

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 or Federal regulations. See also space 17 below.)
At surface

660' FNL & 2230' FWL

14. PERMIT NO. 43-037-11232

15. ELEVATIONS (Show whether OP, ST, OR, etc.)
5338' GR

DEC 20 1985
**DIVISION OF OIL
GAS & MINING**

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-2055-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
Ismay Flodine Park Uni

8. FARM OR LEASE NAME
T127

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR ARMA
Sec 27 - T40S - R26E

12. COUNTY OR PARISH
San Juan

13. STATE
UTAH

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input 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.)

MIRUSU. TOOH with tbg and pkr. Run in hole with work string, bit and scraper. Tag @ 5900' KB. clean out to 5961' KB. circulate hole clean TOOH, with tbg bit & scraper. Rig up wire line unit & perforate w/2 jspf 5786-5804, 5812-30, 5834-5844, 5850-62, 5873-5900, 5906-5921, rig down wire line unit tih with 6 jts tail pipe, pkr on tbg to 5927' KB. Rig up acidizing truck & spot 3 bbls 28% HCL acid across gross perfs. Pull pkr to 5544' KB. and set test casing to 1500 psi. For 5 minutes held ok. Acidize gross perfs with 6000 gal 28% HCL w/additives in 4 stages using 500 gal diverting agent followed w/1450 gal produced water. As displacement over displace 2 bbls avg 3.7 bpm @ 2000 psi. ISIP 400 psi 15 min vacuum swab back load fluid. Pull tbg and pkr tih with pkr and tbg to 5742' KB. treat annulus w/ corrosion inhibitor. Set pkr test casing to 1500 psi. Held for 15 min. Flang up well. Rdmusu put well on inj.

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

SIGNED Alan R. Moxey TITLE Area Supt. DATE 12/17/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

WELL

T-127

OPERATOR

TEXACO

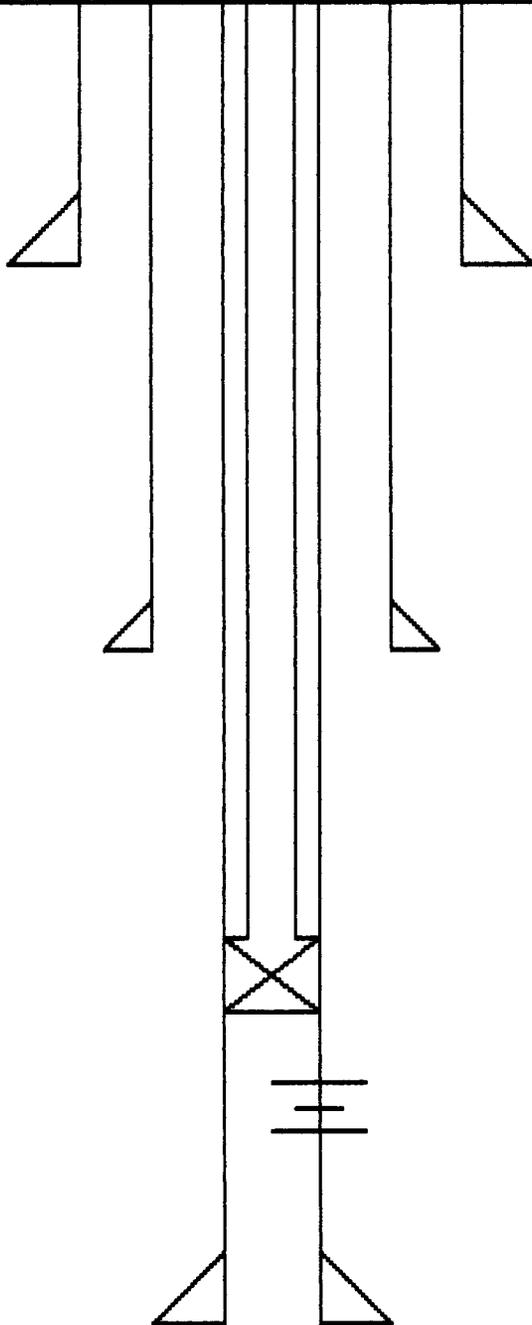
LOCATION

27-40S-26E

COMMENTS

COUNTY

SAN JUAN



13 3/8 @ 62'

9 5/8 @ 1485
2 3/8 TUBING
PACKER AT 5705

5 1/2 @ 6010
PERFS AT
5786-5837

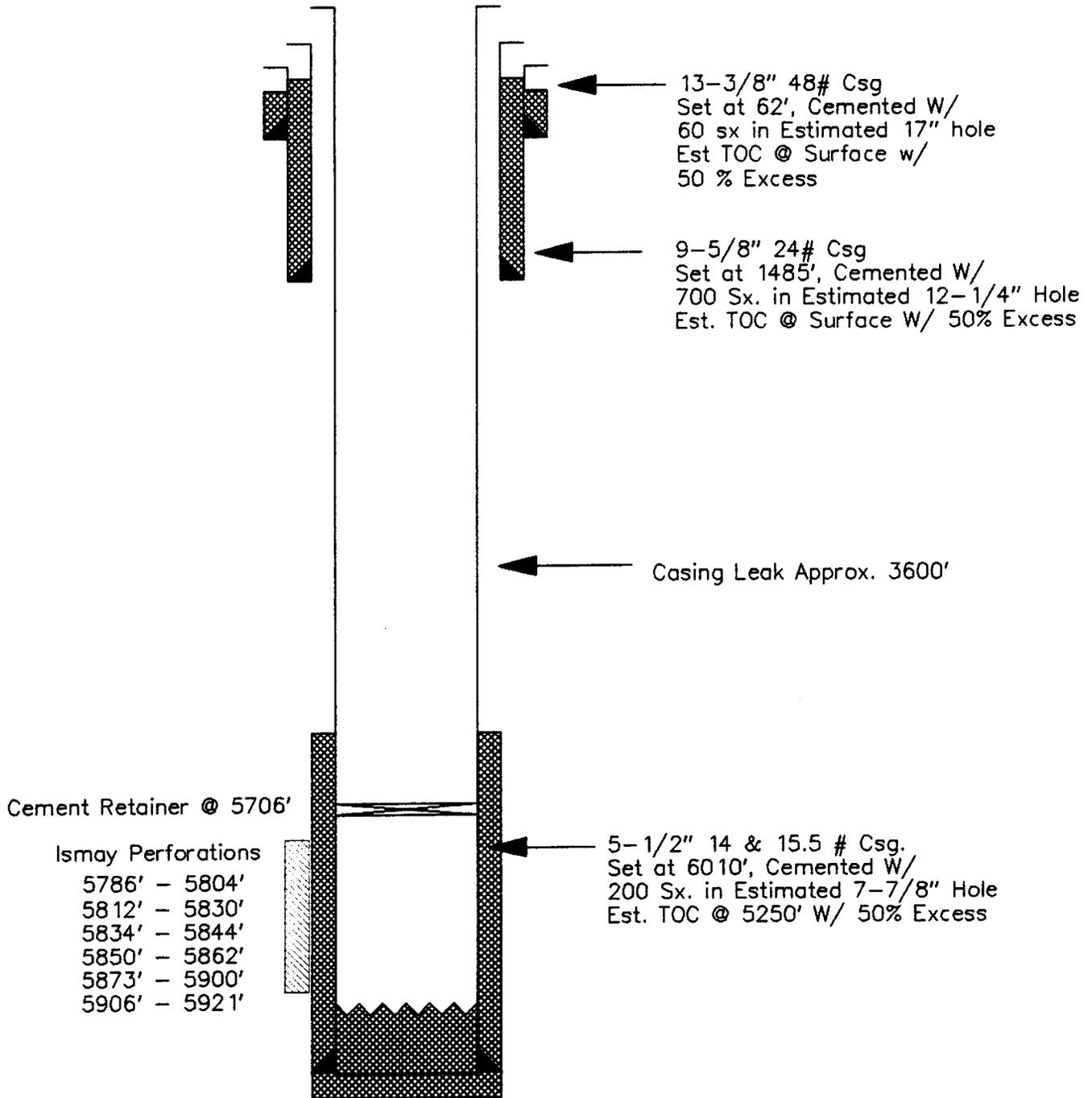
ATTACHMENT

ISMAY - FLODINE PARK UNIT # T127
PLUGGING PROCEDURE

- 1) MIRU pulling unit, install BOP W/ 2-3/8" pipe rams and blind rams. TIH W/ stinger for cement retainer on 2-3/8" tubing; sting into retainer at 5706'.
- 2) Pump 60 sx API Class B (or G) neat cement (5.2 gal water/sx, 1.18 Cu Ft./sx) down tubing. Flush tubing with 21 bbl 10 ppg mud. Pull out of retainer and pump 3/4 Bbl mud down tubing to spot 4 sx cement (30') on retainer while pulling out of hole to 5670'. Pull up and flush tubing with 5 Bbls 10 ppg mud and TOH W/ tubing.
- 3) Rig up wireline and shoot 2 squeeze holes at 4880' (Hermosa). RIH W/ wireline set Cement Ret. and set at 4780'. RIH W/ tubing and sting into retainer. Open 9-5/8" to 5-1/5" casing valve. Pump down tubing and attempt to break circulation. Pump 55 sx class B cement down tubing; flush tubing with 19 Bbls 10 ppg mud. Pull out of retainer and pump 9 Bbl 10 ppg mud. TOH W/ tubing.
- 4) Shoot 2 squeeze holes at 3660'. Follow step 3) except set retainer at 3560' and flush tubing with 14 Bbls 10 ppg mud. Pull out of retainer and pump 2 Bbls 10 ppg mud.
- 5) Shoot 2 squeeze holes at 2920' (De Chelly). Follow step 3) except set retainer at 2820' and flush tubing with 11 Bbls 10 ppg mud. Pull out of retainer and pump 14 Bbls 10 ppg mud.
- 6) Shoot 2 squeeze holes at 1780' (Chinlee). Set cement retainer at 1680' and try to establish circulation, if established, bring cement to surface; otherwise pump 55 sx. Flush tubing with 6 Bbls 10 ppg mud. Pull out of retainer and pump 33 Bbls 10 ppg mud.
- 7) Spot 50' surface plug (7 sx) in 5-1/2" casing, cut off wellhead, erect marker, remove injection line and deadmen, and clean location.

10 ppg mud = 1 sx Barite / bbl fresh water, Yield = 1.06

TEXACO INC.
ISMAY-FLODINE PARK UNIT T127
 Present Condition



PBTD 5975'

8/17/90

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

RECEIVED

MAR 18 1991

1. Type of Well
 Oil Well Gas Well Other **INJECTION**

2. Name of Operator
Texaco Inc.

3. Address and Telephone No.
3300 N. Butler, Farmington N.M. 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**660' FNL & 2230' FWL
 NE/NW Sec. 27, T40S / R26E**

5. Lease Designation and Serial No.
14-20-603-2055-A

6. If Indian, Allottee or Tribe Name
Navajo Tribe

7. If Unit or CA, Agreement Designation
Ismay-Flodine Park Unit

8. Well Name and No.
T127

9. API Well No.
43-037-16232

10. Field and Pool, or Exploratory Area
Ismay

11. County or Parish, State
San Juan County, Utah

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

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

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

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

12-10-90 MIRU, TIH W/ 2-3/8" workstring and sting into cmnt retainer @ 5706'. RU Dowell, establish rate 2.5 BPM @150 psi. Pump 59 Sx. class 'G' neat cmnt. TOH. RU Apollo wireline and perf 5-1/2" csg. W/ 4 JS @4880. Set wireline-set retainer @4780'. TIH W/ tbg. and sting into ret. Pump 54 Sx. class 'G' neat cmnt. TOH. Perf 5-1/2" csg. @3660' and set cmnt ret. @3560'. TIH W/ tbg and sting into ret. Pump 54 Sx. class 'G' neat cmnt. TOH. Perf 5-1/2" csg @2920 and set cmnt ret. @2820. TIH W/ tbg and sting into retainer. Pump 25 BBl at .25 BBl/min @2500 psi. Sting out of ret. and spot 250' plug (30 Sx) of class 'G' cmnt. TOH. Perf 5-1/2" csg @1780'. TIH W/ tbg. Establish circ. to surface. 2 BBl/min @0 psi. Set cmnt retainer @1680 and pump 425 Sx. of class 'G' neat cmnt. 1680' to surface - filled 3-5/8" to 5-1/2" csg annulus. Spot 100' surface plug.

NOTE: .5 BBL cmnt plug on top of each cmnt. retainer. Mixed and spotted mud between each stage.

Mr. Larry Pixley with the Farmington BLM was present throughout the plugging.

14. I hereby certify that the foregoing is true and correct.
 Signed Alan A. Kleier Title Area Manager Date 3/7/91

(This space for Federal or State office use)

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

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

*See Instruction on Reverse Side