

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

Completed 2-28-60

WR

✓  
✓  
✓

FILE NOTATIONS

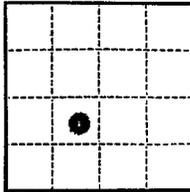
Entered in NID File	✓	Checked by Chief	.....
Entered On S R Sheet	✓	Copy NID to Field Office	.....
Location Map Pinned	✓	Approval Letter	✓
Card Indexed	✓	Disapproval Letter	.....
IWR for State or Fee Land	.....		

COMPLETION DATA:

Date Well Completed	2/28/60	Location Inspected	.....
OW ✓ WW..... TA.....		Bond on Land	.....
GW..... OS..... PA.....		State of Fee Land	.....

LOGS FILED

Driller's Log	3/14/60		
Electric Logs (No.)	3		
E..... I..... E-I ✓ GR..... GR-N ✓ Micro ✓			
Lat..... Mi-L..... Sonic..... Others.....			



(SUBMIT IN TRIPPLICATE)

Indian Agency Navajo

Contract No. 1-149-Sub-9194

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_

Lease No. \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

Lease No. 146339  
Navajo Tribe "J" Lease

January 14, 19 60

Well No. 21 is located 1880 ft. from XX line and 1935 ft. from XX line of sec. 22  
NE/4 SW/4 Sec. 22 T-40-S R-26-E SLM  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Isney San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5875 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)

OBJECTIVE FORMATIONS	DEPTH	SIZE CASING	WEIGHT	LENGTH	CASING PROGRAM (Approx.)
Top of Chinle	1480'	8-5/8"	24#	Now	Set at 1500'
" " DeChelly	2705'	4-1/2"	9.5#	Now	Cement 1000 sz.
" " Hermosa	4465'				250 sz.
" " Isney	5380'				
Total Depth	5575'				

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

Company TEXACO Inc.  
P. O. Box 3109  
Address Midland, Texas

TEXACO Inc.  
By J. J. Velton  
Title Division Civil Engineer

TEXACO Inc. Lse. "H"

Sec 7

Sec 8

RANGE 26 EAST

Sec 9

Sec 10

Shell Lse.

So. Union Gas

Sec 18

TEXACO Inc. Lse. "K"

Sec. 16

Sec. 15

TOWNSHIP 40 SOUTH

Carter Lse.  
State & Woolley

UTAH STATE LINE  
COLORADO STATE LINE

Sec 30

Sec 19

TEXACO Inc. Lse. "K"

Sec 20

Navajo Tribe "J"  
TEXACO Inc. Lse.  
Total: 2881.63 Ac.

Sec. 22

Sec 29

Pure oil Lse.

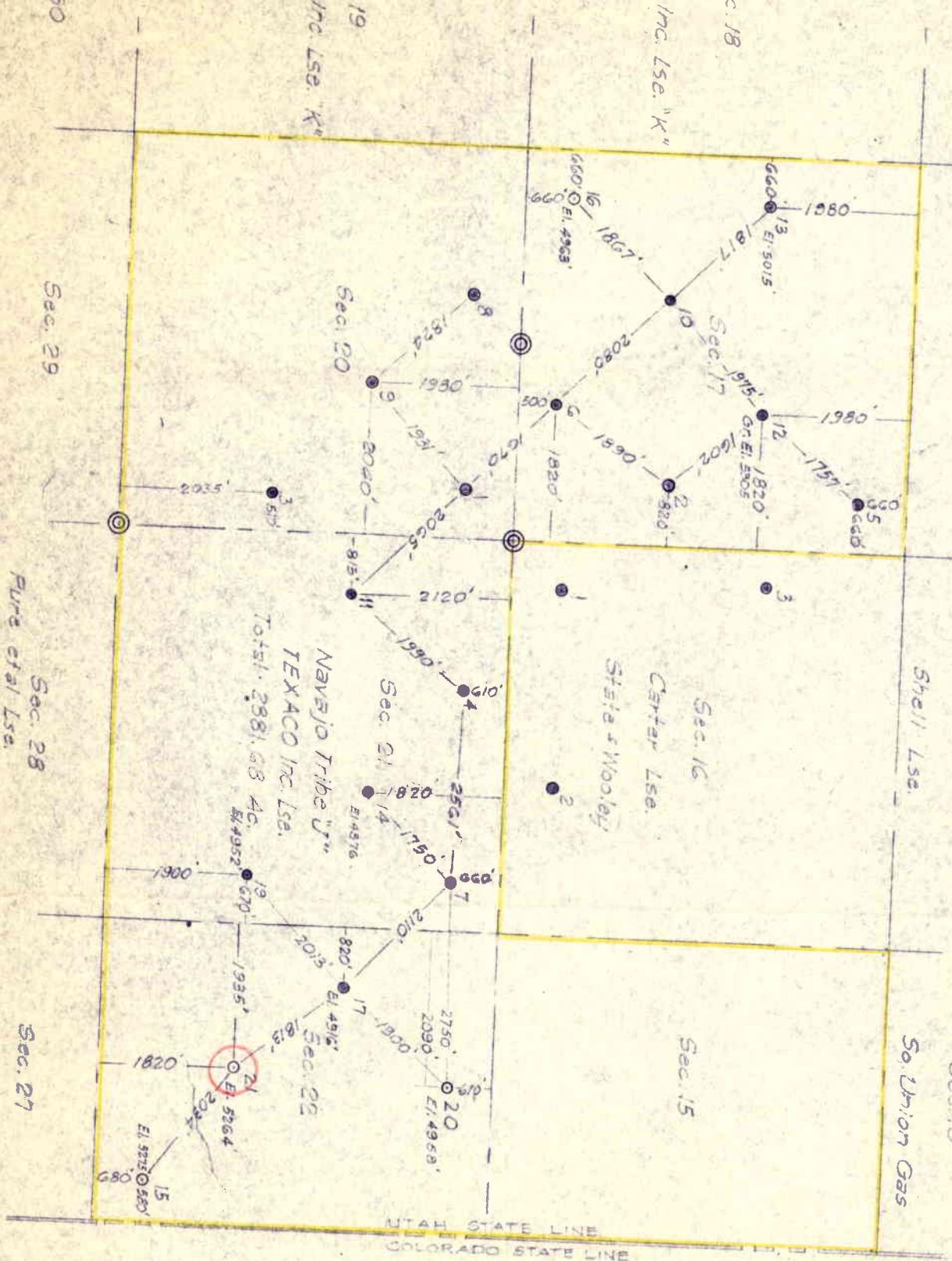
Sec. 28

Sec. 27

SAN JUAN COUNTY, UTAH

Scale 1" = 2000'

U.S. GLO Marker



This is to certify that the courses, distances and objects reflected on the plat to which this certificate is affixed were observed and compiled under my supervision and, according to my best knowledge and belief, are true and correct.

*J. J. Tetton*  
 Division Civil Engineer  
 TEXACO Inc.

Registered Professional Engineer - State of Texas

January 18, 1960

Texaco, Inc.  
P. O. Box 3109  
Midland, Texas

Attention: J. J. Velten,  
Division Civil Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo Tribe J-21, which is to be located 1820 feet from the south line and 1935 feet from the west line of Section 22, Township 40 South, Range 26 East, SLBM, San Juan County, Utah.

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

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

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
EXECUTIVE SECRETARY

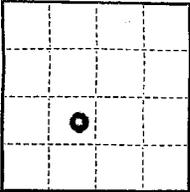
CBF:eo

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

7

(SUBMIT IN TRIPLICATE)

Indian Agency RESERV



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_

Lease No. I-149-IND-9124

*[Handwritten signature]*

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)

January 29, 1960

Navajo Tribe "J"

Well No. 21 is located 1820 ft. from NS line and 1935 ft. from EW line of sec. 22

SW $\frac{1}{4}$  of Sec. 22      40-S      26-E      SLM  
( $\frac{1}{4}$  Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)

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

The elevation of the derrick floor above sea level is 5275 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 at 6:00 A.M., January 22, 1960.

Drilled 17-1/4" hole to 102' and cemented 92' of 13-3/8" O.D. casing at 102' with 150 sacks of cement. Cement circulated.

Drilled 11" hole to 1503' and cemented 1493' of 8-5/8" O.D. casing at 1503' with 1100 sacks of cement. Cement circulated. Tested casing with 800# pressure for 30 minutes. 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 TEXACO Inc.

Address P. O. Box 817

Farmington, New Mexico

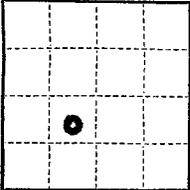
By C. H. McCool

Title Asst. Dist. Sup't.

*[Handwritten initials]*

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_

Lease No. I-149-IND-9124

**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)

February 25, 1960

**Navajo Tribe "J"**

Well No. 21 is located 1820 ft. from NI line and 1935 ft. from EW line of sec. 22

SW<sup>1</sup> of Sec. 22      40-S      26-E      SLM  
(¼ Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)

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

The elevation of the derrick floor above sea level is 5275 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 6-3/4" hole to 5957' and cemented 5921' of 4-1/2" O.D. casing at 5931' with 250 sacks of cement. Top of cement 4600'. Tested casing with 1000# pressure for 30 minutes. 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 TEXACO Inc.

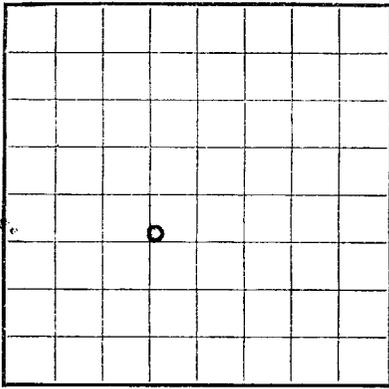
Address P. O. Box 817

Farmington, New Mexico

By [Signature]

Title Asst. Dist. Sup't.

U. S. LAND OFFICE Navajo  
I-149-IND-9124  
SERIAL NUMBER \_\_\_\_\_  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company TEXACO Inc. Address Box 817, Farmington, N. M.  
Lessor or Tract Navajo Tribe "J" Field Ismay State Utah  
Well No. 21 Sec. 22 T. 40-S R. 26-E Meridian SLM County San Juan  
Location 1820 ft. S of S Line and 1935 ft. E of W Line of Section 22 Elevation 5274'  
(Derriek 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 C. H. McLeod  
Date March 11, 1960 Title Asst. Dist. Sup't.

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

Commenced drilling January 22, 1960 Finished drilling February 21, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5808' to 5914' 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—	
13-3/8	48	8R	Smith	92	Yaker	None			
8-5/8	31	8R	Smith	1493	Yaker	None			
4-1/2	19.5	8R	Smith	921	Yaker	None			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	102	150	Halliburton		
8-5/8	1503	1100	Halliburton		
4-1/2	5931	250	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material None Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material None Size \_\_\_\_\_

SHOOTING RECORD

FOLD MARK

FOLD

**PLUGS AND ADAPTERS**

Heaving plug—Material None Length — Depth set —  
 Adapters—Material None Size —

**SHOOTING RECORD**

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
<u>None</u>						

**TOOLS USED**

Rotary tools were used from 0 feet to 5957 feet, and from — feet to — feet  
 Cable tools were used from None feet to — feet, and from — feet to — feet

**DATES**

Put to producing Tested Feb 28, 1960  
 The production for the first 24 hours was 960 barrels of fluid of which 100 % was oil; — % emulsion; — % water; and — % sediment. Gravity, °Bé. 38°  
 If gas well, cu. ft. per 24 hours — Gallons gasoline per 1,000 cu. ft. of gas —  
 Rock pressure, lbs. per sq. in. —

**EMPLOYEES**

C. A. Hildebrand, Driller V. J. Roberts, Driller  
G. W. Howlett, Driller —, Driller

**FORMATION RECORD**

FROM—	TO—	TOTAL FEET	FORMATION
0	225	225	Sand & Surface Rock
225	1511	1286	Sand & Shale
1511	1563	52	Shale
1563	2623	1060	Sand & Shale
2623	3385	762	Shale
3385	3514	129	Shale & Anhydrite
3514	3782	268	Shale
3782	4807	1025	Shale & Anhydrite
4807	4831	24	Lime & Shale
4831	4892	61	Lime
4892	5714	822	Lime & Shale
5714	5790	76	Lime & Anhydrite
5790	5815	25	Anhydrite
5815	5874	59	Lime & Sand
5874	5951	77	Lime
5951	5957	6	Anhydrite
Total Depth 5957'			
Plugged Back Depth 5920'			

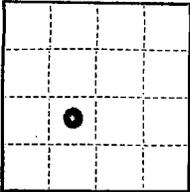
26





(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee I-149-IND-9124

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	
NOTICE OF INTENTION TO ABANDON WELL		

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

March 11, 1960

Navajo Tribe "J"

Well No. 21 is located 1820 ft. from N line and 1935 ft. from W line of sec. 22

SW 1/4 of Sec. 22  
(1/4 Sec. and Sec. No.)

40-S  
(Twp.)

26-E  
(Range)

SLM  
(Meridian)

Isamay  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the derrick floor above sea level is 5275 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 5957'. Plugged back depth 5920'.

After cementing 4-1/2" casing at 5931', drilled out cement plug from 5856' to total depth. Set retainer at 5920' and squeezed open hole from 5931' to 5957' with 75 sacks of cement. Perforated 4-1/2" casing from 5906' to 5914' with 4 jet shots per foot. Washed perforations through tubing with 500 gallons of regular 15% acid. After swabbing, well flowed 289 barrels of oil in 7 hours. Perforated 4-1/2" casing from 5808' to 5818', 5820' to 5830', 5834' to 5838', 5872' to 5863' and 5889' to 5893' with 4 jet shots per foot. Acidized all perforations in 3 stages with 3,000 gallons of regular 15% acid using bridge plug.

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 817

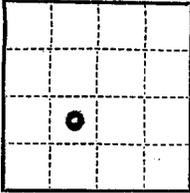
Farmington, New Mexico

By [Signature]

Title Asst. Dist. Sup't.

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_

Lease No. I-149-IND-9124

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>X</b>

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

August 26, 1960

Navajo Tribe "J"  
Well No. 21 is located 1820 ft. from S line and 1935 ft. from W line of sec. 22  
SW<sup>1</sup> of Sec. 22      40-S      26-E      SLM  
(<sup>1</sup>/<sub>4</sub> Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)  
Ismay      San Juan      Utah  
(Field)      (County or Subdivision)      (State or Territory)

The elevation of the derrick floor above sea level is 5275 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 well commenced pumping July 7, 1960. On test ending July 14, 1960, pumped 277 barrels of oil in 24 hours. Length of pump stroke 74" with 13 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 TEXACO Inc.

Address P. O. Box 810  
Farmington, New Mexico

By [Signature]

Title Dist. Sup't.

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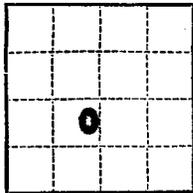
*Copy H-L-50*

Form 9-331b  
(April 1952)

Form approved.  
Budget Bureau No. B-359.4  
**Navajo**

(SUBMIT IN TRIPLICATE)

Indian Agency \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**I-149-IND-9124**

Allottee \_\_\_\_\_

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 _____ <b>X</b>
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 _____ <b>X</b>
NOTICE OF INTENTION TO SHOOT OR ACIDIZE _____	SUBSEQUENT REPORT OF ABANDONMENT _____
NOTICE OF INTENTION TO PULL OR ALTER CASING _____	SUPPLEMENTARY WELL HISTORY _____ <b>X</b>
NOTICE OF INTENTION TO ABANDON WELL _____	_____

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

March 12, 1963

Navajo Tribe "J"

Well No. 21 is located 1820 ft. from  S line and 1935 ft. from  W line of sec. 22

SW of Section 22      40-S      26-E      SLM  
(1/4 Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)

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

The elevation of the derrick floor above sea level is 5275 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 12-15-62.

Reason for workover was to increase production by acidizing.

Pulled rods and tubing and reran tubing with retrievable bridge plug and packer. Set bridge plug on bottom of hole and packer at 5880'. Acidized perforations 5889' to 5893' and 5906' to 5914' with 2500 gallons of low fluid loss retarded acid. Treating pressure 1000 to 200 PSI with an average injection rate of 2.6 barrels per minute. 5 Minute shut in pressure zero. Moved packer to 5780' and set bridge plug at 5880'. Treated perforations 5808' to 5818', 5820' to 5830', 5834' to 5838' and 5863' to 5872' with 6000 gallons

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

Company TEXACO Inc. (over)

Address Box 810  
Farmington, New Mexico

By *J. C. Hall*

Title District Accountant

of low fluid loss retarded acid in three equal stages using 250 gallons of temporary blocking agent and 200 gallons of regular 15% acid following stages 1 and 2. Treating pressure 2500 to 1000 PSI with an average injection rate of 2.9 barrels per minute. 5 Minute shut in pressure zero. Pulled tubing with packer and bridge plug and reran tubing and rods. After recovering load oil and acid residue, pumped 139 barrels of oil and 16 barrels of water on 24 hour test ending 12-21-62. Length of pump stroke 74" with 10 strokes per minute.

MAR 18 1963

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.

I-149-IND-9124

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Ismay Flodine Park Unit

8. FARM OR LEASE NAME

9. WELL NO.

T322

10. FIELD AND POOL, OR WILDCAT

Ismay

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

S22-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

2. NAME OF OPERATOR  
TEXACO, Inc.

3. ADDRESS OF OPERATOR  
P.O. Box EE, Cortez, Colo. 81121

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

1820' from South line and 1935' from East line.

14. PERMIT NO.

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

5275' DF

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

FRACURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

Convert to Water Inj.

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACURE 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. T322 from oil producing to water injection status as follows:

1. Pull rods and tubing
2. Perforate 5849-55' and 5917-20' with 2JSPF.
3. Acidize perforations with 2500 gallons 28% HCL.
4. Commence water injection
5. Run radioactive tracer log after injection stabilizes.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: Sept 13, 1976

BY: A. L. Ansell

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

SIGNED Alvin R. Mans

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 TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

**I-149-IND.-9124**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**Navajo**

7. UNIT AGREEMENT NAME

**Ismay Flodine Park**

8. FARM OR LEASE NAME

9. WELL NO.

**T322**

10. FIELD AND POOL, OR WILDCAT

**Ismay**

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

**S22, 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

2. NAME OF OPERATOR  
**TEXACO, Inc.**

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

**1820' from South line and 1935' from East line.**

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5275' DF**

16. 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 type="checkbox"/>
(Other) <input checked="" type="checkbox"/> <b>Convert to Water Inj.</b>	

(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.)\*

**7-13-77. MIRUSU. Cleaned out hole. Run injection tubing.**

**Set model "R" packer at 5755'. Perforated well 5849-5855', 5915-5918', with 2 JSPF. Placed well on injection.**

**Test: 763 BWIPD, 0# tubing**



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

SIGNED *Alvin R. Marx* TITLE Field Foreman DATE 8-5-77

(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

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, Colo. 81321**

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
**NE $\frac{1}{4}$ -SW $\frac{1}{4}$ -Sec 22**  
AT SURFACE: **1980' FSL &**  
AT TOP PROD. INTERVAL: **1980' FWL**  
AT TOTAL DEPTH:

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

5. LEASE  
**I-149-IND 0124**

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

7. UNIT AGREEMENT NAME  
**Ismay-Flodine Park Unit**

8. FARM OR LEASE NAME

9. WELL NO.  
**T 322**

10. FIELD OR WILDCAT NAME

11. SEC., T., R., OR BLK. AND SURVEY OR AREA  
**Sec 22 T 240S R 26E**

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

13. STATE

14. API NO.

15. ELEVATIONS (OF, KDB, AND WD)  
**5275 KB**

REQUEST FOR APPROVAL TO:                      SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF                      

FRACTURE TREAT                      

SHOOT OR ACIDIZE                      

REPAIR WELL                      

PULL OR ALTER CASING                      

MULTIPLE COMPLETE                      

CHANGE ZONES                      

ABANDON\*                      

(other) \_\_\_\_\_

RECEIVED  
OCT 19 1981

(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, Inc. plans to squeeze the lower perforations in Ismay Flodine Park Unit water injection well T 322 and to drill out perforate, and acidize as follows:**

- 1.) Set cement retainer at 5900' KB and squeeze perforations 5906-18 with 50 sx LFL cement.
- 2.) Drill and clean out to 5927' KB.
- 3.) Perforate 5916-22, 5905-14, 5888-95, 5876-11, 5860-13, 5849-52, 5840-43, 5820-38, and 5807-16.
- 4.) Acidize all perms continuously with 10,000 gal 28% NE-HCL.
- 5.) Return well to injection.

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

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

SIGNED Alvin R. Marx TITLE Field Supt. DATE October 14, 1981

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

CONDITIONS OF APPROVAL, IF ANY:

USGS(4) UOGCC(3) Navajo Tribe- CDF- ARM

\*See Instructions on Reverse Side

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

DATE: 12-3-81  
BY: M. J. Mundy

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 - T322 WELL  
 SEC. 22 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> <u>Unit</u>	Well No. <u>T322</u>	Field <u>Ismay</u>	County <u>San Juan</u>
Location of Enhanced Recovery Injection or Disposal Well <u>NE 1/4 Sec 4</u> Sec. <u>22</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>8/77</u>	
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 <u>Oil &amp; Gas</u>
Location of IFPU Producing Wells Injection Source(s) <u>3 Source wells</u>	Geologic Name(s) <u>Ismay +/- 5600</u> and Depth of Source(s) <u>Salt Wash, Entrada &amp; Navajo</u> <u>490 - 1215</u>		
Geologic Name of Injection Zone <u>Paradox-Ismay</u>	Depth of Injection Interval <u>5808</u> to <u>5918</u>		
a. Top of the Perforated Interval: <u>5808</u>	b. Base of Fresh Water: <u>1000'</u>	c. Intervening Thickness (a minus b) <u>4808'</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 _____ 500 B/D 2300 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. Mary Applicant Field Supt.  
 County of Huerfano

Before me, the undersigned authority, on this day personally appeared Alvin R. Mary  
 known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly  
 authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

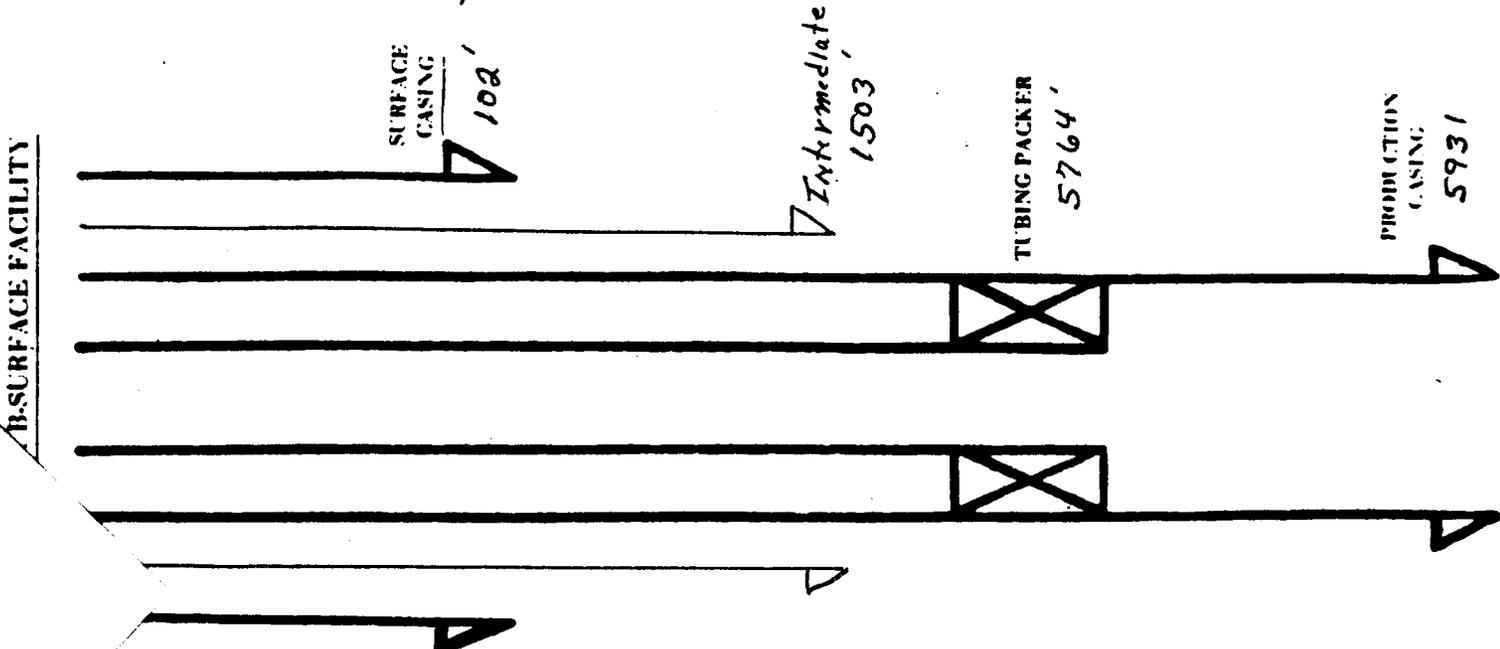
Subscribed and sworn to before me this 16<sup>th</sup> day of Dec., 19 83

SEAL  
 My commission expires 10/25/87  
Joe D. Royal  
 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 plot 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"	102	150	Circulated	
Intermediate	8 5/8"	1503	1100	Circulated	
Production	4 1/2"	5931	250	4600	Calculated
Tubing	2 3/8"	5764	4 1/2" Name - Type - Depth of Tubing Packer Model R Retractable 5764		
Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval	Depth - Base of Inj. Interval		
5957	ISMAV	5808	5918		



PLEASE TYPE OR USE BLACK INK ONLY

(To be filed within 30 days after drilling is completed)

I-149-1ND-9124

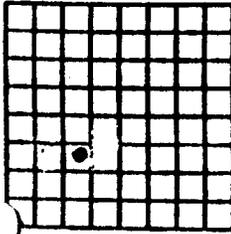
COMPLETION & TEST DATA BY PRODUCING FORMATION

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  
800 Acres  
20



Locate Well Correctly  
and Outline Lease

COUNTY San Juan SEC. 22 TWP. 40S RGE. 26E  
COMPANY OPERATING Texaco Inc.  
OFFICE ADDRESS P. O. Box EE  
TOWN Cortez STATE ZIP Colo 81321  
FARM NAME Ismay-Flodine WELL NO. 7322  
DRILLING STARTED back 1960 DRILLING FINISHED Feb 1960  
DATE OF FIRST PRODUCTION \_\_\_\_\_ COMPLETED 2-28-60  
WELL LOCATED SE 1/4 NE 1/4 SW 1/4  
1820 FT. FROM SE OF W SEC. & 1935 FT. FROM E OF W SEC.  
ELEVATION BERRICK FLOOR 5275 GROUND 5266

TYPE COMPLETION

Single Zone ISMA Y Order No. NA

Multiple Zone \_\_\_\_\_ Order No. \_\_\_\_\_

Comingled \_\_\_\_\_ Order No. \_\_\_\_\_

LOCATION EXCEPTION

Order No. \_\_\_\_\_ Penalty \_\_\_\_\_

OIL OR GAS ZONES

Name	From	To	Name	From	To
<u>ISMA Y</u>	<u>5808</u>	<u>5918</u>			

CASING & CEMENT

Casing Set				Cog. Test	Cement		
Size	Wgt	Grade	Feet	Psi	San	Fillup	Top
<u>1378</u>	<u>48</u>		<u>102</u>		<u>150</u>		<u>Circulated</u>
<u>898</u>	<u>24</u>		<u>1503</u>		<u>1100</u>		<u>Circulated</u>
<u>4 1/2</u>	<u>9.5</u>		<u>5931</u>		<u>250</u>		<u>4600</u>

TOTAL DEPTH 5957

PACKERS SET DEPTH 5764

FORMATION	1	2	3
FORMATION	<u>Ismay</u>	<u>ISMA Y</u>	
SPACING & SPACING ORDER NO.	<u>80 acre</u>		
CLASSIFICATION (Oil; Gas; Dry; Inj. Well)	<u>OIL</u>	<u>7-13-77</u>	
PERFORATED	<u>5808-18, 5920-30</u> <u>5934-38, 5963-72</u> <u>5989-93, 5906-14</u>	<u>5849-5855</u>	
INTERVALS		<u>5915-5918</u>	
ACIDIZED?	<u>3500 gal 15% HCL</u>		
FRACTURE TREATED?			

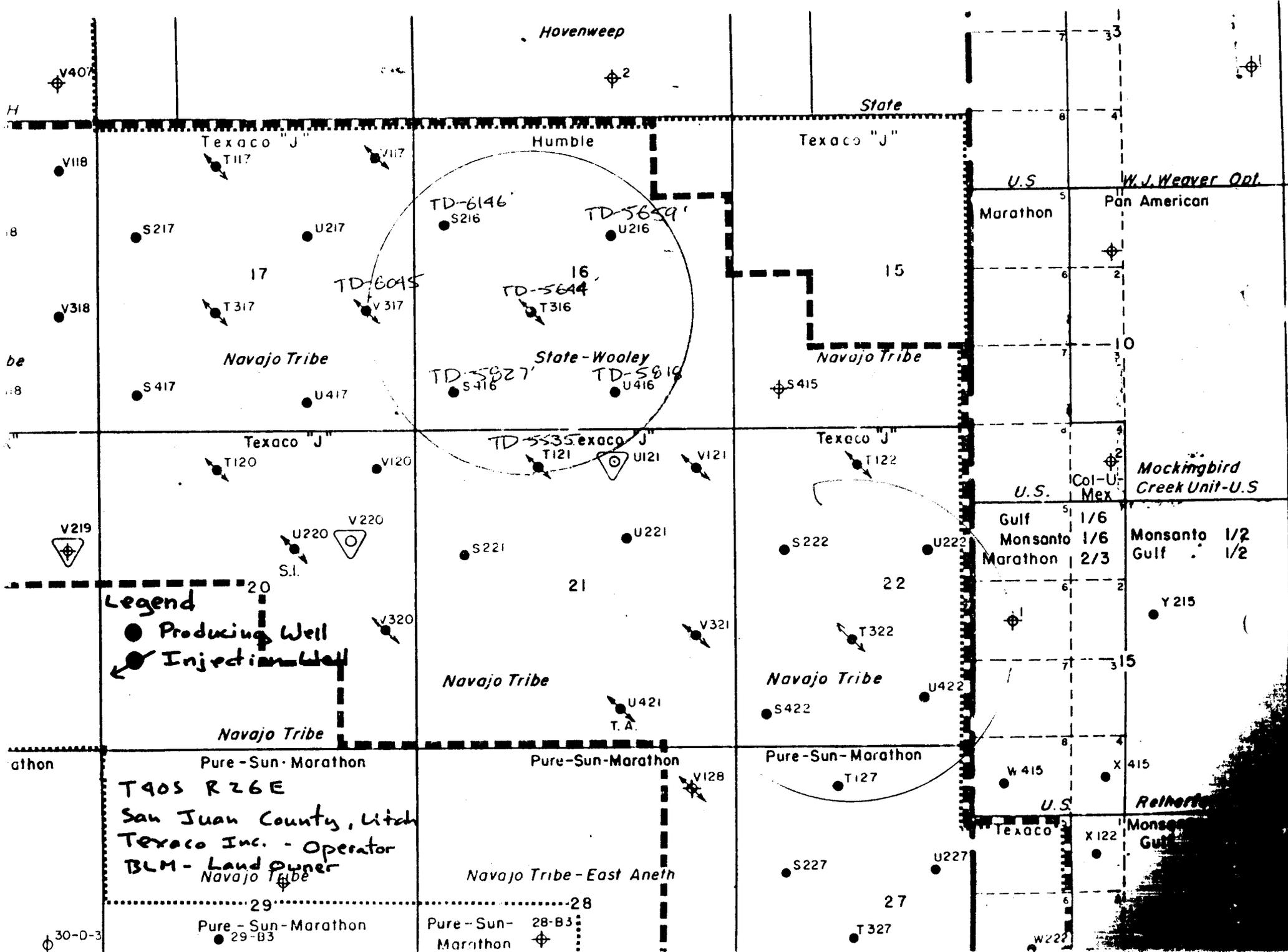
INITIAL TEST DATA

Date	<u>7-7-60</u>	<u>7-13-77</u>	
Oil bbl./day			
Oil Gravity	<u>270 BOPD</u>		
Gas Cu. Ft./day			
Gas-Oil Ratio Cu. Ft./Bbl.			
Water-Bbl./day		<u>763 BWIPD</u>	
Pumping or Flowing	<u>Pumping</u>		
CHOKE SIZE			
FLOW TUBING PRESSURE			

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

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

Telephone 1-303-565-8401 John R. Mary Field Sup  
State of Colorado Name and title of representative of company  
County of Hartman  
Subscribed and sworn before me this 16th day of December 1987  
MI Commission expires 10/25/87  
John D. Roybal  
728 N. Beach, Cortez, Co. 81321



Hovenweep

State

Texaco "J"

Humble

Texaco "J"

U.S.

W.J. Weaver Opl.

Marathon

Pan American

Navajo Tribe

Navajo Tribe

State-Woolley

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

T40S R26E  
San Juan County, Utah  
Texaco Inc. - Operator  
BLM - Land Owner  
Navajo Tribe

Navajo Tribe - East Aneth

U.S.

Texaco

Reithers

Monsanto  
Gulf

Pure-Sun-Marathon  
29-B3

Pure-Sun-Marathon  
28-B3

27

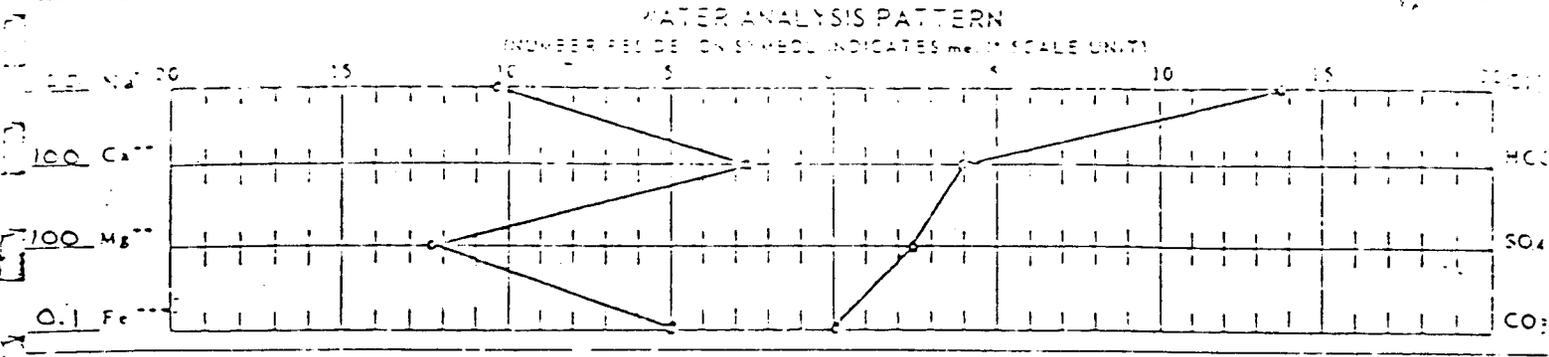
28

30-0-3

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 INFORMATION		
DEPARTMENT	SHIFT	SAMPLE SOURCE	TEMP. F	WATER FEED DAY	OIL FEED DAY	GAS FEED DAY	
		PLANT					
DATE SAMPLED 5 APRIL 1982		TYPE OF WATER					
		<input type="checkbox"/> PRODUCED		<input checked="" type="checkbox"/> SUPPLY		<input checked="" type="checkbox"/> WATERFLOOD	



DISSOLVED SOLIDS		DISSOLVED GASES	
CATIONS	me/l*	me/l*	
Total Hardness	392.0		Hydrogen Sulfide, H <sub>2</sub> S 337.5 mg/l*
Calcium, Ca <sup>++</sup>	268.0	5360.0	Carbon Dioxide, CO <sub>2</sub> 185.0 mg/l*
Magnesium, Mg <sup>++</sup>	124.0	1519.0	Oxygen, O <sub>2</sub> 1.0 mg/l*
Iron (Total) Fe <sup>+++</sup>	0.5	10.0	
Serium, Sr <sup>++</sup>	—	1.0	PHYSICAL PROPERTIES
Sodium, Na <sup>+</sup> (calc.)	1035.1	23807.3	pH 6.65
ANIONS			Eh (Redox Potential) N.D. MV
Chloride, Cl <sup>-</sup>	1380.3	49000.0	Specific Gravity N.D.
Sulfate, SO <sub>4</sub> <sup>-2</sup>	24.5	1175.0	Turbidity, NTU Units N.D.
Carbonate, CO <sub>3</sub> <sup>-2</sup>	0.0	0.0	Total Dissolved Solids (calc.) 21325.3 mg/l*
Bicarbonate, HCO <sub>3</sub> <sup>-</sup>	4.0	224.0	Diss. Inq. Index @ 77 F +0.39
Hydroxyl, OH <sup>-</sup>	0.0	0.0	@ 120 F +1.32
Sulfide, S <sup>-2</sup>	18.8	300.0	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

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 comm used interchangeably for epm and respectively. Where epm and ppm used, corrections should be mod specific gravity.

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

INSTRUCTIONS - CANCELS LETTER: SI OF

SIGNED BY

PERMANENT

ROUTINE

TEMPORARY

TEXACO

19

(LOCATION)

(DATE)

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

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Texaco Well No Sunny Floodme Park #322  
 County: San Juan T 409 R 26E Sec. 22 API# 43-027-16179  
 New Well  Conversion  Disposal Well  Enhanced Recovery Well

	<u>YES</u>	<u>NO</u>
UIC Forms Completed	<u>✓</u>	_____
Plat including Surface Owners, Leaseholders, and wells of available record	<u>✓</u>	_____
Schematic Diagram	<u>✓</u>	_____
Fracture Information	<u>✓</u>	_____
Pressure and Rate Control	<u>✓</u>	_____
Adequate Geologic Information	<u>✓</u>	_____
Fluid Source	<u>Sunny</u>	_____
Analysis of Injection Fluid	Yes <u>✓</u> No _____	TDS <u>81385</u>
Analysis of Water in Formation to be injected into	Yes <u>✓</u> No _____	TDS <u>81385</u>
Known USDW in area	<u>None</u>	Depth <u>1100'</u>
Number of wells in area of review	<u>7</u> Prod.	<u>5</u> P&A <u>1</u>
		Water <u>0</u> Inj. <u>1</u>
Aquifer Exemption	Yes _____	NA <u>✓</u>
Mechanical Integrity Test	Yes _____	No <u>1</u>
	Date _____	Type _____

Comments: 4600' TOL

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Reviewed by: 

WELL

T-322

OPERATOR

TEXACO

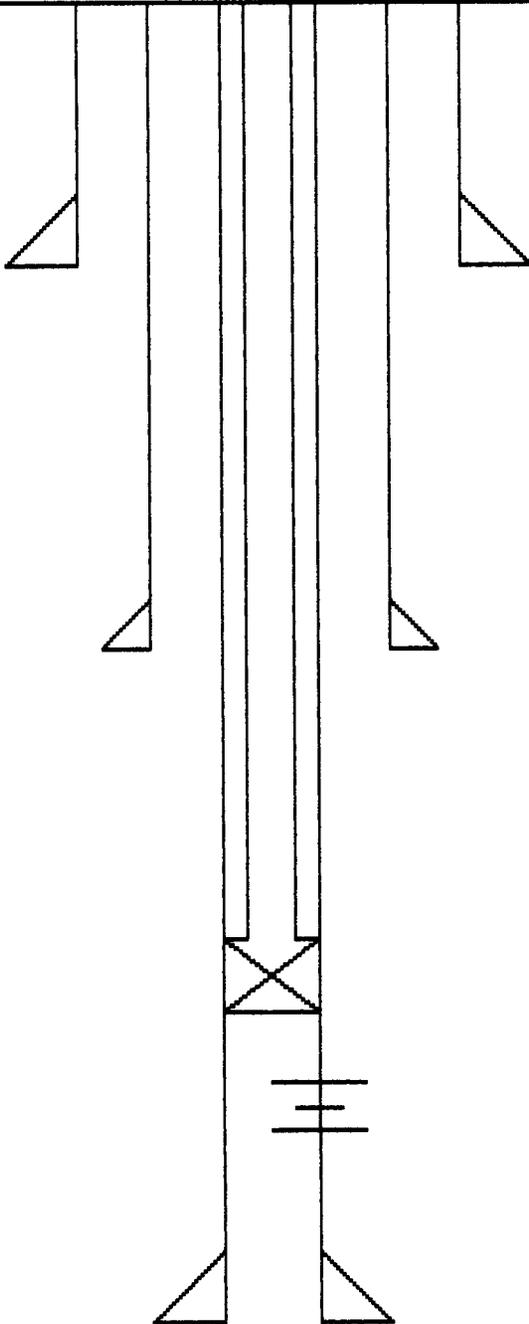
LOCATION

22-40S-26E

COMMENTS

COUNTY

SAN JUAN



13 3/8 @ 102'

8 5/8 @ 1503'  
2 3/8 TUBING  
PACKER AT 5764

4 1/2 @ 5931'  
PERFS AT 5808-5918

RECEIVED

MAY 28 1991

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

DIVISION OF  
OIL GAS & MINING

Well name and number: \_\_\_\_\_ See Attached Listing  
Field or Unit name: \_\_\_\_\_ API no. \_\_\_\_\_  
Well location: QQ \_\_\_\_\_ section \_\_\_\_\_ township \_\_\_\_\_ range \_\_\_\_\_ county \_\_\_\_\_  
Effective Date of Transfer: 6-1-91

CURRENT OPERATOR

Transfer approved by:

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

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

NEW OPERATOR

Transfer approved by:

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

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

(State use only)  
Transfer approved by *Hilbert* Title *UIC Manager*  
Approval Date *6-26-91*



Texaco Exploration and Production Inc  
Midland Producing Division

P O Box 3109  
Midland TX 79702-3109

May 22, 1991

RECEIVED

MAY 28 1991

DIVISION OF  
OIL GAS & MINING

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

Gentlemen:

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

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

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

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

Yours very truly,

R. S. Lane  
Assistant Division Manager

RKH/KMM-CC

Attachments



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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [ ] GAS WELL [ ] OTHER [ ] 2. NAME OF OPERATOR: Texaco Exploration and Production Inc. 3. ADDRESS OF OPERATOR: P.O. Box 46510, Denver, CO 80201 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 5. LEASE DESIGNATION AND SERIAL NO. 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME 9. WELL NO. 10. FIELD AND POOL, OR WILDCAT 11. SEC., T., R., M., OR S.W. AND SURVEY OR AREA 12. COUNTY OR PARISH 13. STATE 14. PERMIT NO. 15. ELEVATIONS (Show whether SP, RT, OR, etc.)

RECEIVED MAY 28 1991

DIVISION OF OIL GAS & MINING

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) Transfer of Plugging Bond [X] PULL OR ALTER CASING [ ] MULTIPLE COMPLETE [ ] ABANDON\* [ ] CHANGE PLANS [ ] X SUBSEQUENT REPORT OF: WATER SHUT-OFF [ ] FRACTURE TREATMENT [ ] SHOOTING OR ACIDIZING [ ] (Other) Transfer of Owner/Operator [ ] 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.)

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

Former Operator:

TEXACO INC.

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

Date: 3/1/91

New Operator:

Texaco Exploration and Production Inc.

Signed: [Signature] Title: Division Manager

Date: 3/1/91

18. I hereby certify that the foregoing is true and correct SIGNED [Signature] TITLE Division Manager DATE 3/1/91

(This space for Federal or State office use)

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

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

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

- Change of Operator (well sold)                       Designation of Agent  
 Designation of Operator                                       Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-1-91)  
 (TEXACO EXPLORATION AND PRODUCTION INC.)  
 TO (new operator) TEXACO E & P INC. FROM (former operator) TEXACO INC.  
 (address) 3300 NORTH BUTLER (address) 3300 NORTH BUTLER  
FARMINGTON, NM 87401 FARMINGTON, NM 87401  
BRENT HELQUIST FRANK  
 phone (505 ) 325-4397 phone (505 ) 325-4397  
 account no. N 5700 (6-5-91) account no. N 0980

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

Name: <u>(SEE ATTACHED)</u>	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (5-28-91)
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes) no \_\_\_\_ If yes, show company file number: #114097.
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (6-11-91)
- See 6. Cardex file has been updated for each well listed above.
- See 7. Well file labels have been updated for each well listed above. (will update when filing)
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

### ENTITY REVIEW

- Q1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- Q2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only)

- Q1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. #K0290791-4 80,000-Ins. Co. of N. America rec. 2-11-91.
- Q2. A copy of this form has been placed in the new and former operators' bond files.
- Q3. The former operator has requested a release of liability from their bond (yes/no) yes. Today's date \_\_\_\_\_ 19\_\_\_\_. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_\_\_. #M157448 80,000-Ins. Co. of N. America

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- Q1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- Q2. Copies of documents have been sent to State Lands for changes involving State leases. 6-27-91

### INDEXING

- Q1. All attachments to this form have been microfilmed. Date: July 15 1991.

### FILED

- Q1. Copies of all attachments to this form have been filed in each well file.
- Q2. The original of this form and the original attachments have been filed in the Operator Change file.

### REMARKS

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

ACGT NUM	COMPANY NAME	FLD NUM	FIELD NAME	TOWN SHIP	RANGE	SEC	QTR QTR	API NUMBER	PROD ZONE	WELL STATUS	ENTITY	WELL NAME		
NO980	TEXACO INC	365	GREATER ANETH	S400	E240	14	NESE	4303731381	DSCR	WIW	7000	ANETH UNIT H314X1		
				S400	E240	18	NWSW	4303731385	DSCR	POW	7000	ANETH UNIT E218SE		
				S400	E240	7	SESW	4303731384		LA	99998	ANETH UNIT E407SE		
				S400	E230	13	NESE	4303731383	DSCR	POW	7000	ANETH UNIT D213SE		
				S400	E230	13	SENE	4303731382	DSCR	POW	7000	ANETH UNIT D-113SE		
				S400	E240	7	SWSW	4303731386	DSCR	POW	7000	ANETH UNIT E407SW		
				S400	E240	15	SESW	4303731398	DSCR	POW	7000	ANETH UNIT F415		
				S400	E240	15	SENE	4303731397	IS-DC	POW	7000	ANETH UNIT F215		
				S400	E240	15	NWNW	4303731396	IS-DC	POW	7000	ANETH UNIT E115		
				S400	E240	15	NWSE	4303731408	DSCR	POW	7000	ANETH UNIT G315X		
				S400	E240	16	NENE	4303731409	IS-DC	POW	7000	ANETH UNIT H116		
				S400	E240	21	NWNE	4303716093	IS-DC	PA	99998	NAVAJO TRIBE D-5X (ANETH		
				S400	E250	19	SESW	4303716136	DSCR	PA	99998	NAVAJO F-15 (ANETH K-419)		
				S400	E230	11	SWSE	4303716034	DSCR	WIW	99996	MESA 1 (ANETH C41.1)		
				S400	E240	21	SWNE	4303730516	ISMY	POW	7000	ANETH U G221X		
				1 WILDCAT		S140	E090	19	C-SE	4300730117	FRSD	TA	10921	PINNACLE PEAK UNIT 2
				405	MCELMO MESA	S410	E260	4	NESW	4303720048	DSCR	PA	99998	NAVAJO TRIBE "AC" #8
						S410	E260	4	SWNE	4303720077		PA	99998	NAVAJO TRIBE "AC" #9
						S410	E260	4	SWSW	4303720099	ISMY	PA	99998	NAVAJO TRIBE "AC" #11
						S410	E260	4	SWSE	4303720162	ISMY	PA	99998	NAVAJO TRIBE "AC" #12
				1 WILDCAT		S140	E080	33	SENE	4300730118	FRSD	PA	10922	STATE OF UTAH 'S' #1
				365	GREATER ANETH	S400	E240	23	NWSW	4303716068	IS-DC	WIW	99990	NAVAJO TRIBE C-12 (ANETH
						S400	E240	7	SWNE	4303716308	IS-DC	PA	99996	GULF-FED 6 ANETH G207
						S400	E240	17	NWSW	4303716062	DSCR	WIW	99996	NAVAJO TRIBAL G-7 (ANETH
				1 WILDCAT		S430	E210	19	NENW	4303711253	LDLL	PA	99998	NAVAJO TRIBE "AE" #1
					S430	E210	19	NENW	4303711253	PENN	PA	99998	NAVAJO TRIBE "AE" #1	
					S430	E210	19	NENW	4303711253	DVNN	PA	99998	NAVAJO TRIBE "AE" #1	
				365	GREATER ANETH	S400	E240	17	NWNW	4303716049	DSCR	WIW	99996	NAVAJO UNIT E-117
						S400	E240	14	NESE	4303716321	PRDX	PA	99998	NAVAJO A-3/43-14 (ANETH H
						S400	E250	29	SENE	4303716334	DSCR	PA	99996	NAVAJO F-14
				1 WILDCAT		NO20	E120	11	SESW	4304330292		PA	10953	STEEL CREEK NO. 1
				380	ISMAY	S400	E260	20	NESE	4303716193	ISMY	PA	99998	NAVAJO TRIBE J-3 (V-320)
						S400	E260	22	NESW	4303716179	ISMY	WIW	99990	NAVAJO J-21 (T-322)
						S400	E260	34	NENW	4303716178	ISMY	WIW	99990	NAV TR "AC" #1 ISMY FLODI
						S400	E260	20	NENW	4303716459	ISMY	PA	99998	NAVAJO TRIBE J-8 (T-120)
S400	E260	20	SWNE			4303716465	ISMY	WIW	99990	NAVAJO TRIBE J-9 (U-220)				
365	GREATER ANETH	S400	E230	14	SWNE	4303716033	PRDX	WIW	99990	ARROWHEAD #3 (ANETH C-214)				
		S400	E230	14	NESW	4303716273	PRDX	WIW	99990	ARROWHEAD 2 (ANETH B-314)				
		S400	E230	14	SWSE	4303716035	PRDX	WIW	99990	ARROWHEAD 5 (ANETH C-414)				
		S400	E230	14	NENE	4303716277	PRDX	WIW	99990	ARROWHEAD 1 (ANETH D-114)				
		S400	E230	14	NESE	4303716038	PRDX	WIW	99990	ARROWHEAD #4 (ANETH D-314)				
		S400	E230	23	SWNE	4303716276	PRDX	WIW	99990	A.W. RICE 3 (ANETH C-223)				
		S400	E230	23	NENW	4303716271	PRDX	WIW	99990	A.W. RICE 2 (ANETH B-123)				
		S400	E230	24	NWNW	4303716270	PRDX	WIW	99990	FEDERAL A-1 (ANETH A-124)				
		S400	E230	24	NWNE	4303716275	PRDX	WIW	99990	FEDERAL 1 (ANETH C-124)				
		S400	E240	24	SESW	4303716087	PRDX	WIW	99990	NAVAJO TRIBE C-13 (ANETH				
		S400	E240	7	SENE	4303715414	PRDX	WIW	99990	GULF-AZTEC FED. 4 (ANETH				



Texaco Exploration and Production Inc

P O Box 46513  
Denver CO 80201-6513

February 14, 1995

Utah Division of Oil, Gas and Mining  
3 Triad Center  
355 W. North Temple  
Salt Lake City, UT 84180-1204

FEB 17 1995

DIV OF OIL, GAS & MINING

RE: **Procedural Policy**  
**Resignation of Operator and**  
**Designation of Successor Operator**

Ladies and Gentlemen:

Texaco Exploration and Production Inc. ("Texaco") is in the process of selling a number of properties it operates on state owned leases. We desire to file Resignation of Operator and Designation of Successor Operator forms with the Oil and Gas division of your land office.

It would be most helpful if you could provide the undersigned with instructions detailing the procedure your state requires in order to properly file such forms, including any applicable filing fees. It would also benefit Texaco if you could provide us with the forms required. Please indicate if your state will accept computer generated forms created by Texaco as long as they are identical to your preprinted forms; or, if you cannot accept computer driven forms, please let us know your position on photocopied forms.

In some cases, Texaco has many operated properties on state controlled lands. In such instances, blanket transfers would ease the burden on both your office as well as ours. If you have such provisions for blanket transfer of operator, I would appreciate instructions on those procedures as well.

If you can provide me with the above requested information, I would be most appreciative. Time is of the essence. The transfer of interests was effective January 1, 1995. Texaco would prefer to file the necessary paperwork as soon as possible. Please do not hesitate to contact me should you have any questions. My direct telephone line is (303) 793-4129.

Very truly yours,

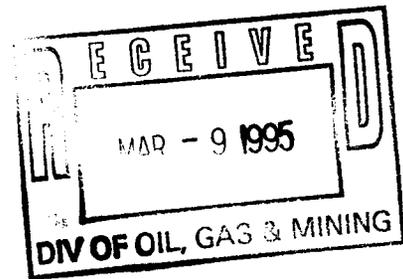
Harvey Childs  
Land Department





**Texaco USA**  
Western E&P Region  
Denver Producing Division

PO Box 46510  
Denver CO 80201-6510  
8055 E. Tufts Avenue  
Denver CO 80237  
303 793 4000



March 7, 1995

State of Utah  
Division of Oil, Gas and Mining  
Three Triad Center, Suite 350  
355 W. North Temple  
Salt Lake City, UT 84180

Re: Transfer of Operator

Gentlemen:

Enclosed please find completed Sundry Notices transferring operatorship of certain leases located in the State of Utah from Texaco Exploration and Production Inc. to Apache Corporation, effective March 1, 1995.

Should you have any questions concerning these transfers, please contact Ms. Cathy Speegle at (303) 793-4949.

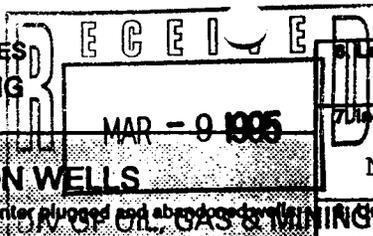
Sincerely,

Kevin D. Smith  
Portfolio Manager

CS

Enclosure

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



<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		6. Lease Designation and Serial Number
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT— for such proposals.		7. Indian Allottee or Tribe Name Navajo Tribe
		8. Lease or Communitization Agreement Ismay Flodine-Park Unit

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)	9. Well Name and Number All Wells
2. Name of Operator Apache Corporation	10. API Well Number
3. Address of Operator 2000 Post Oak Blvd. Suite 100 Houston, TX 77056	4. Telephone Number (713) 296-6356
5. Location of Well Footage : OO, Sec. T., R., M. :	11. Field and Pool, or Wildcat County : SAN JUAN State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
<p><b>NOTICE OF INTENT</b> (Submit in Duplicate)</p> <p><input type="checkbox"/> Abandonment                      <input type="checkbox"/> New Construction</p> <p><input type="checkbox"/> Casing Repair                      <input type="checkbox"/> Pull or Alter Casing</p> <p><input type="checkbox"/> Change of Plans                      <input type="checkbox"/> Recompletion</p> <p><input type="checkbox"/> Conversion to Injection              <input type="checkbox"/> Shoot or Acidize</p> <p><input type="checkbox"/> Fracture Treat                      <input type="checkbox"/> Vent or Flare</p> <p><input type="checkbox"/> Multiple Completion              <input type="checkbox"/> Water Shut-Off</p> <p><input checked="" type="checkbox"/> Other <u>Change of Operator</u></p> <p>Approximate Date Work Will Start _____</p>	<p><b>SUBSEQUENT REPORT</b> (Submit Original Form Only)</p> <p><input type="checkbox"/> Abandonment *                      <input type="checkbox"/> New Construction</p> <p><input type="checkbox"/> Casing Repair                      <input type="checkbox"/> Pull or Alter Casing</p> <p><input type="checkbox"/> Change of Plans                      <input type="checkbox"/> Shoot or Acidize</p> <p><input type="checkbox"/> Conversion to Injection              <input type="checkbox"/> Vent or Flare</p> <p><input type="checkbox"/> Fracture Treat                      <input type="checkbox"/> Water Shut-Off</p> <p><input type="checkbox"/> Other _____</p> <p>Date of Work Completion _____</p> <p>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.</p> <p>* Must be accompanied by a cement verification report.</p>

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

Texaco E & P Inc. has relinquished Operatorship of all wells on the "Ismay Flodine-Park Unit" to Apache Corp. effective March 1, 1995.

Attached is a list of all wells with location & A.P.I. numbers.

14. I hereby certify that the foregoing is true and correct	Apache Corporation D. E. Schultz Manager Drilling and Production Rocky Mountain Region	Apache Corporation D. E. Schultz Manager Drilling and Production Rocky Mountain Region	Date <u>2-20-95</u>
Name & Signature	Title _____		

(State Use Only)



IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS  
Navajo Area Office  
P.O. Box 1060  
Gallup, New Mexico 87305

*N. M. ...*  
*PLZ FILE*  
NOV 14 1995  
LAND  
WESTERN REG  
*38.117*  
*COPIES TO*  
*ALON -*  
*015*

ARES/543

CERTIFIED MAIL--RETURN RECEIPT REQUESTED

Mr. Gary A. Carson  
Staff Landsman  
Apache Corporation  
2000 Post Oak Boulevard, Suite 100  
Houston, TX 77056-4400

05301

Dear Mr. Carson:

Enclosed for your information and files is the original copy of the approved Designation of Successor Unit Operator for Ismay-Flodine Park Unit Agreement No. 14-08-0002-8740.

We are providing your Company with the "Operator" copy and request that you furnish the other parties to the agreement with a copy of the approved document.

By a copy of this letter, we are providing copies of the approved agreement to the Bureau of Land Management, Farmington District Office and The Navajo Nation, Minerals Department.

If you have any questions, please contact Ms. Bertha Spencer, Realty Specialist, at telephone number (520) 871-5932.

Sincerely,

*Wilson Barbry*  
Area Director

Enclosures

**RESIGNATION OF OPERATOR**  
 under  
**Unit Agreement**  
**No. 14-08-0001-8740**  
**Montezuma County, Colorado**  
**San Juan County, Utah**

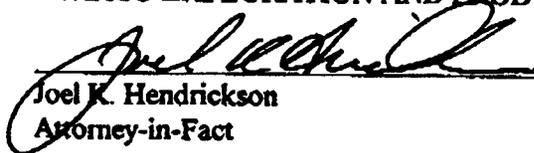
RECEIVED  
 BLM MAIL ROOM  
 28 SEP 27 PM 1:48  
 070 BARRINGTON, NM

Texaco Exploration and Production Inc. ("Texaco") as designated Operator under the captioned Unit Agreement, does hereby resign as Operator, effective upon selection and approval of a successor Unit Operator.

Effective as of the 1st day of March, 1995

TEXACO EXPLORATION AND PRODUCTION INC.

2-24-1995  
 Date

  
 \_\_\_\_\_  
 Joel K. Hendrickson  
 Attorney-in-Fact

**DESIGNATION OF SUCCESSOR UNIT OPERATOR**

Designation of Successor Unit Operator, Ismay Flodine Park Unit Area, Unit Agreement No. 14-08-0001-8740, Montezuma County, Colorado and San Juan County, Utah.

THIS INDENTURE, dated as to the 1st Day of March, 1995, by and between Apache Corporation, hereinafter designated as "First Party", and the owners of the unitized working interest, hereinafter designated as "Second Parties".

WITNESSETH: Whereas the Act of February 25, 1920, 41 Stat. 437, 30 U.S.C. secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior, on November 1, 1964, approved Unit Agreement No. 14-08-0001-8740 wherein Texaco is designated as Operator of the unitized area; and

WHEREAS under the rules and regulations governing the leasing of restricted allotted and Tribal Indian lands for oil and gas promulgated by the Secretary of the Interior (25 CFR, Parts 171 and 172) under and pursuant to the Act of March 3, 1909, 35 Stat. 783, 25 U.S.C. 396 and the Tribal Land Mineral Leasing Act of May 11, 1938, 52 Stat. 347, 25 U.S.C. 396A et seq., Texaco is designated as Operator of the unitized area; and

WHEREAS the designation of successor Unit Operator is now desired pursuant to the terms of the Ismay Flodine Park Unit Agreement; and



STATE OF COLORADO )  
 )  
COUNTY OF DENVER ) ss.

BEFORE ME, the undersigned authority, on this day personally appeared Joel K. Hendrickson, known to me to be the person whose name is subscribed to the foregoing instrument, and known to me to be the Attorney-in-Fact of Texaco Exploration and Production Inc., a Delaware corporation, and acknowledged to me that he executed said instrument for the purposes and consideration therein expressed, as the act of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS 24th DAY OF February, 1995

My Commission Expires:

SUSAN SUTTON  
My Commission Expires 2-24-98



Susan Sutton  
Notary Public  
4601 DTC Blvd  
Address  
DENVER CO 80237

DATE APPROVED: NOV - 2 1995

Wila Earley  
Area Director, Navajo

Approved pursuant to Secretary's Redlegation Order 209 DM 8, Secretary's Order Nos. 3150 and 3177, and 10 BIAM Bulletin 13, as amended.



200 FORT OAK BLVD, STE 100 HOUSTON, TEXAS 77064-4400

**FACSIMILE COVER SHEET**

Date: 11/29/95 Time: 4:50

TO: Lisha Cordova

COMPANY: \_\_\_\_\_

FAX NUMBER: 801-359-3940

FROM: Al Buron

PHONE NUMBER: 713-296-6356

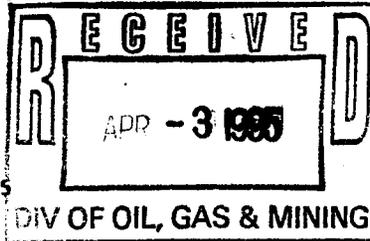
FAX NUMBER: 296-7156

NUMBER OF PAGES: 5  
(including cover sheet)

SUBJECT/COMMENTS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If you have a problem reading material or do not receive all material being transmitted, please call (713) 296-6375.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Ismay Flodine Park Unit Injection Wells  
Field or Unit name: Sections 7, 12, 16, 17, 18, 19, 20, 21, 22, 24 API no. na  
Well location: QQ \_\_\_ section \_\_\_ township 40S range 27, 33, 34 26E county San Juan  
Effective Date of Transfer: 3-1-95

**CURRENT OPERATOR**  
Transfer approved by:  
Name Kevin D. Smith Company Texaco Exploration and Production Inc.  
Signature Kevin D. Smith Address P.O. Box 46510  
Title Portfolio Manager Denver, CO 80201-6510  
Date 3-21-95 Phone (303) 793-4800  
Comments:

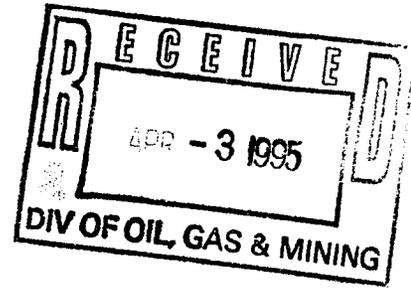
**NEW OPERATOR**  
Transfer approved by:  
Name D. E. Schultz Company Apache Corporation  
Signature [Signature] Address 1700 Lincoln St., #3600  
Title Manager Denver, CO 80203  
Date 3-27-95 Drilling and Production Phone (303) 837-5000  
Rocky Mountain Region (713) 296-6000  
Comments:

(State use only)  
Transfer approved by [Signature] Title Envt. Manager  
Approval Date 12-4-95



Texaco USA  
Western E&P Region  
Denver Producing Division

PO Box 46510  
Denver CO 80201-6510  
8055 E Tufts Avenue  
Denver CO 80231  
303 793 1000



March 29, 1995

Ms. Lisha Cordova  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
350 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Re: Transfer of Authority to Inject

Dear Ms. Cordova:

As requested in your telefax of March 20, 1995, enclosed please find a fully executed UIC Form 5 "Transfer of Authority to Inject" for the Ismay Flodine Park Unit. This transfers operatorship from Texaco Exploration and Production Inc. to Apache Corporation, effective March 1, 1995.

Thank you for your cooperation and patience on this matter. Should you have any questions or need additional information, please contact Ms. Cathy Speegle at (303) 793-4949.

Sincerely,

Kevin D. Smith  
Portfolio Manager

Enclosure

CS

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1	VLC / CIL
2	LWP 7-PL
3	DTB 8-SJ
4	VLC 9-PYLE
5	RJF
6	LWP

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

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator               Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 3-1-95)

TO (new operator)	<u>APACHE CORPORATION</u>	FROM (former operator)	<u>TEXACO E &amp; P INC</u>
(address)	<u>2000 POST OAK BLVD #100</u>	(address)	<u>3300 N BUTLER</u>
	<u>HOUSTON TX 77056-4400</u>		<u>FARMINGTON NM 87401</u>
	<u>AL BURON (713)296-6356</u>		<u>KEVIN SMITH(303)793-4800</u>
phone ( )		phone ( 505 )	<u>325-4397</u>
account no.	<u>N 5040</u>	account no.	<u>N 5700</u>

**\*ISMAY FLODINE PARK UNIT**

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

Name: <b>**SEE ATTACHED**</b>	API: <u>037-16179</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: <u>1</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(rec'd 3-9-95)*
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(rec'd 3-9-95)*
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) yes If yes, show company file number: #036878. *(rec'd 6-15-60)*
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(12-4-95)*
- See 6. Cardex file has been updated for each well listed above. *(12-4-95)*
- See 7. Well file labels have been updated for each well listed above. *(12-4-95)*
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(11-30-95)*
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

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

BOND VERIFICATION (Fee wells only)

*Trust Lands \$80,000 Surety # 900780677 "Continental Casualty Co."*

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/ no) \_\_\_\_ . Today's date March 14 1995. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_\_\_.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases. *12/7/95 Ed Bonner - Trust Lands*

FILMING

- 1. All attachments to this form have been microfilmed. Date: December 21 1995.

FILING

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

COMMENTS

*950320 Cathy Springle / Texaco "Reg. WIC F5/wicw" & referred to Water Rights / 3 WSA's.*

*950463 Ric'd WIC F5 "Texaco/Apache".*

*9505-10/95 BIA/Blm "Not Approved"*

*951130 BIA/NM Aprv. 11-2-95.*

TEXACO E. & P., INC.  
 FARMINGTON OPERATING UNIT  
 ISMAY FLODINE - PARK UNIT

WELL NUMBER	WELL TYPE	1/4	1/4	SECT.	TWNSHP	RANGE	LEGAL	API NUMBER
S216	OSI	SW	NW	16	T40S	R26E	1820' FNL/500' FWL	43-037-15546 ✓
S221	OSI	SW	NW	21	T40S	R26E	2120' FNL/815' FWL	43-037-16172 ✓
S222	OSI	SW	NW	22	T40S	R26E	2030' FNL/820' FWL	43-037-16173 ✓
S234	OSI	SW	NW	34	T40S	R26E	1820' FNL/660' FWL	43-037-11266 ✓
S422	OSI	SW	SW	22	T40S	R26E	595' FSL/500' FWL	43-037-16177 ✓
T318	OSI	NE	SW	18	T40S	R26E	1980' FSL/1980' FWL	43-037-16464 ✓
U216	OSI	SW	NE	16	T40S	R26E	2000' FNL/2055' FEL	43-037-15547 ✓
U218	OSI	SW	NE	18	T40S	R26E	1980' FNL/1980' FEL	43-037-16181 ✓
U222	OSI	SW	NE	22	T40S	R26E	2040' FNL/750' FEL	43-037-16183 ✓
U417	OSI	SW	SE	17	T40S	R26E	500' FSL/1820' FEL	43-037-16185 ✓
U418	OSI	SW	SE	18	T40S	R26E	660' FSL/1980' FEL	43-037-16186 ✓
U427	OSI	SW	SE	27	T40S	R26E	740 FSL/3240' FWL	43-037-16235 ✓
V118	OSI	NE	NE	18	T40S	R26E	820' FNL/660' FEL	43-037-16189 ✓
V318	OSI	NE	SE	18	T40S	R26E	1980' FSL/660' FEL	43-037-16467 ✓
Q412	POW	SW	SE	12	T40S	R25E	660' FSL/1980' FWL	43-037-16168 ✓
S121	POW	NW	NW	21	T40S	R26E	500' FNL/660' FWL	43-037-31629 ✓
S217	POW	SW	NW	17	T40S	R26E	1980' FNL/660' FWL	43-037-16170 ✓
S218	POW	SW	NW	18	T40S	R26E	1820' FNL/ 600' FWL	43-037-16171 ✓
S227	POW	SW	NW	27	T40S	R26E	2140' FNL/820' FWL	43-037-16231 ✓
S407	POW	SW	SW	7	T40S	R26E	660' FSL/500' FWL	43-037-16174 ✓
S416	POW	SW	SW	16	T40S	R26E	660' FSL/660' FWL	43-037-15544 ✓
U127	POW	NW	NE	27	T40S	R26E	745' FNL/595' FEL	43-037-31648 ✓
U217	POW	SW	NE	17	T40S	R26E	1980' FNL/1820' FEL	43-037-16180 ✓
U227	POW	SW	NE	27	T40S	R26E	2120' FNL/3330' FWL	43-037-16234 ✓
U234	POW	SW	NE	34	T40S	R26E	1980' FNL/2080' FEL	43-037-16184 ✓
U416	POW	SW	SE	16	T40S	R26E	660' FSL/1980' FEL	43-037-15545 ✓
U422	POW	SW	SE	22	T40S	R26E	820' FSL/3140' FWL	43-037-16187 ✓
V120	POW	NE	NE	20	T40S	R26E	660' FNL/660' FEL	43-037-16190 ✓
<del>U21</del>	WIW	NE	NW	21	T40S	R26E	610' FNL/2050' FWL	43-037-16460 I 149 IND 9124
<del>T316</del>	WIW	NE	SW	16	T40S	R26E	1980' FSL/1980' FWL	43-037-16462 ml-
<del>U222</del>	WIW	NE	SW	22	T40S	R26E	1820' FSL/1935' FEL	43-037-16179 Indian
R124	WIWSI	NE	NE	24	T40S	R25E	660' FNL/660' FEL	43-037-16169 Indian
T117	WIWSI	NE	NW	17	T40S	R26E	775' FNL/1995' FWL	43-037-16456 I 149 IND 9124
T118	WIWSI	NE	NW	18	T40S	R26E	660' FNL/1980' FWL	43-037-16457 I 149 IND 9123
T119	WIWSI	NE	NW	19	T40S	R26E	660' FNL/1980' FWL	43-037-16458 "
T317	WIWSI	NE	SW	17	T40S	R26E	1980' FSL/1980' FWL	43-037-16463 I 149 IND 9124
U421	WIWSI	SW	SE	21	T40S	R26E	660' FSL/1980' FEL	43-037-11267 "
V117	WIWSI	NE	NE	17	T40S	R26E	660' FNL/660' FEL	43-037-16188 "
V121	WIWSI	NE	NE	21	T40S	R26E	660' FNL/660' FEL	43-037-16191 "
V321	WIWSI	NE	SE	21	T40S	R26E	1900' FSL/670' FEL	43-037-16194 "
<del>U121</del>	WSSI	NW	NE	21	T40S	R26E	540' FNL/1980' FEL	43-037-20056 " Texaco Inc/No.
<del>V219</del>	WSSI	SE	NE	19	T40S	R26E	1980' FNL/560' FEL	43-037-16519 I 149 IND 9123
<del>V220</del>	WSSI	SE	NE	20	T40S	R26E	1950' FNL/1120' FEL	43-037-20055 I 149 IND 9124

Separate Change

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1995

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

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**Apache Corporation**

3. Address and Telephone No.  
**2000 Post Oak Blvd., Suite 100, Houston, TX 77056-4400**

4. Location of Well (Footage, Sec., T., S., M., or Survey Description)  
**see attached**

5. Lease Designation and Serial No.  
**8910087400**

6. If Indian, Allottee or Tribe Name  
**Ismay-Flodine Park Unit**

7. If Unit or CA, Agreement Designation  
**see attached**

8. Well Name and No.  
**see attached**

9. API Well No.  
**see attached**

10. Field and Pool, or Exploratory Area  
**Ismay Flodine**

11. County or Parish, State  
**San Juan, UT**

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

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

(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.)

As required by 43 CFR 3100.0-5(a) and 43 CFR 3162.3, we are notifying you of a change of operator on the above referenced agreement. Merit Energy Company will take over operations on April 1, 1998.

Merit Energy Company meets Federal bonding requirements as follows:  
Federal bond no. WY 3011  
Nationwide BIA bond no. 71S100832232BCA

The effective date of this change is April 1, 1998

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

Signed [Signature] Title Sr Regulatory Analyst Date 3/26/98

(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

APR 16 1998

**COPY**

Form 5180-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**Merit Energy Company**

3. Address and Telephone No.  
**12222 Merit Drive, Suite 1500, Dallas, TX 75251**

4. Location of Well (Footage, Sec., T., S., M., or Survey Description)  
**see attached**

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
**8910087400**

8. Well Name and No.  
**Ismay-Flodine Park Unit**

9. API Well No.  
**see attached**

10. Field and Pool, or Exploratory Area  
**Ismay Flodine**

11. County or Parish, State  
**San Juan, UT**

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

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

(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.)\*

As required by 43 CFR 3100.0-5(a) and 43 CFR 3162.3, we are notifying you of a change operator on the above referenced lease.

Merit Energy Company, as new operator, accepts all applicable terms, conditions, stipulations and restrictions concerning operations conducted on the lease or portion of lease described. Merit Energy Company meets Federal bonding requirements as follows:

Federal bond no. WY 3011  
Nationwide BIA bond no. 71S100832232BCA

The effective date of this change is April 1, 1998.

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

Signed *Nathaniel Rogers* Title *Mgr., Reg. Affairs* Date *4/1/98*

(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

12222 Merit Drive, Suite 1500  
Dallas TX 75251  
972-383-6558  
972-960-1252 (fax)

**MERIT ENERGY  
COMPANY**

# Fax

<b>To:</b> Kristen Risbeck	<b>From:</b> Arlene Valliquette
<b>Fax:</b> 801-359-3940	<b>Pages:</b> 3
<b>Phone:</b>	<b>Date:</b> 01/11/99
<b>Re:</b> Change of Operator	<b>CC:</b>

Urgent    For Review    Please Comment    Please Reply    Please Recycle

● **Comments:**

It has come to my attention the State of Utah Division of Oil, Gas & Mining does not show Merit Energy Company as the operator of the wells in the Ismay-Flodine Park Unit. I am faxing under this cover the BIA approval of the Successor Operator Designation reflecting Merit Energy Company as the Unit Operator effective April 1, 1998.

Should you need additional information, please contact me at the above address or telephone number.

*Arlene Valliquette*



## United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

NAVAJO AREA OFFICE

P. O. Box 1060

Gallup, New Mexico 87305-1060

IN REPLY  
REFER TO:

ARES/543

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

JUL 13 1998

Ms. Carol Wright  
Merit Energy Company  
12222 Merit Drive, Suite 1500  
Dallas, Texas 75251

Dear Ms. Wright:

Enclosed for your information and files is the original copy of the approved Designation of Successor Unit Operator for the Ismay Flodine Park Unit Agreement No. 14-08-0001-8740 for your records. Please furnish a copy of this approved document to other parties that have interest in this transaction.

By a copy of this letter, we are providing copies of the approved document agreement to the Bureau of Land Management, Farmington District Office, and the Navajo Nation, Minerals Department.

If you have any questions, please contact Ms. Bertha Spencer, Realty Specialist, at telephone number (520) 871-5938.

Sincerely,

*Anson Baker*

ACTING Area Realty Officer

## DESIGNATION OF SUCCESSOR UNIT OPERATOR

**(Ismay Flodine Park Unit, Montezuma County, Colorado  
and San Juan County, Utah)**

This Designation of Successor Unit Operator, dated as of the 1st day of April, 1998, by and among **MERIT ENERGY COMPANY**, a Delaware corporation, whose offices are at 12222 Merit Drive, Suite 1500, Dallas, Texas 75251, hereinafter designated as "First Party" and the owners of unitized working interests, hereinafter designated as "Second Parties".

WHEREAS, under the provisions of the Act of February 15, 1920, 41 Stat. 437, 30 U.S.C., Secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, the Department of the Interior approved Unit Agreement No. 14-08-0001-8740 for the Ismay Flodine Park Unit (the "Unit");

WHEREAS, Apache Corporation has resigned as Unit Operator; and

WHEREAS, the First Party has been and hereby is designated by Second Parties as Operator of the unitized area and said First Party desires to assume all rights, duties and obligations of Operator under said Unit Agreement.

NOW, THEREFORE, in consideration of the premises hereinbefore set forth, First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Operator under and pursuant to all the terms of said Unit Agreement, and the Second Parties agree that, effective upon approval of this Designation of Successor Operator by an authorized officer of the Bureau of Land Management, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator pursuant to the terms and conditions of said Unit Agreement, said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement were expressly set forth in this instrument.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

**FIRST PARTY:**

**MERIT ENERGY COMPANY**

By: \_\_\_\_\_

Fred N. Diem, Vice President

APPROVED, PURSUANT TO SECRETARY'S REDELEGATION ORDER 209 DM, 8, SECRETARY'S ORDER NOS. 3150 AND 3177, AND 10 BLM BULLETIN 13, AS AMENDED.

*Gemi Donetson*  
ACTING Area Director

Date: **JUL 07 1998**

I:\WP60\GREEN\DES-ISMA

**SECOND PARTIES:**

MERIT PARTNERS, L.P.  
MERIT ENERGY PARTNERS III, L.P.  
By: MERIT ENERGY COMPANY, General Partner

By: *Fred N. Diem*  
Fred N. Diem, Vice President

**CERTIFICATION**

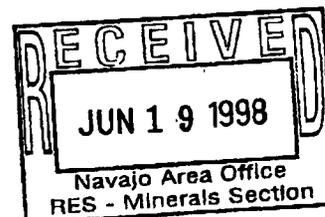
**MERIT ENERGY COMPANY**, as the designated successor operator under the Ismay Flodine Park Unit Agreement, hereby certifies that the requisite approvals of the current working interest owners in this agreement have been obtained to satisfy the requirements for selection of a successor operator as set forth under the terms and provisions of the agreement. Operations on Federal wells in this Unit will be covered by BLM Bond No. WY 3011.

MERIT ENERGY COMPANY

By: *Fred N. Diem*  
Fred N. Diem, Vice President

APPROVED, PURSUANT TO SECRETARY'S REDELEGATION ORDER 209 DM, 8, SECRETARY'S ORDER NOS. 3150 AND 3177, AND 10 BLM BULLETIN 13, AS AMENDED.

*Genni Denetson*  
ACTING AREA DIRECTOR  
JUL 07 1998  
Date



# MERIT ENERGY COMPANY

---

12222 Merit Drive, Suite 1500  
Dallas, Texas 75251  
(972) 701-8377  
(972) 960-1252 Fax

October 12, 1999

Utah Division of Oil, Gas & Mining  
P. O. Box 145801  
Salt Lake City, UT. 84114

RE: Transfer of Authority to Inject  
Ismay Flodine Park Unit Wells  
San Juan County, Utah

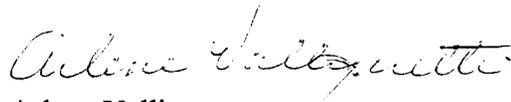
Dear Sir or Madam:

Enclosed you will find, in triplicate, Utah Form 5 (Transfer of Authority to Inject) covering 15 injection wells for the above referenced unit. Merit Energy Company became the operator of the unit effective April 1, 1998. The previous operator was Apache Corporation.

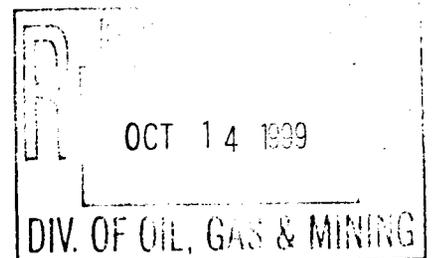
Should you require any additional information, please advise this office or contact me at (972) 383-6558.

Sincerely,

MERIT ENERGY COMPANY

  
Arlene Valliquette  
Manager - Regulatory Affairs

Encls. (45)



TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Ismay Flodine Park Unit  
Field or Unit name: Ismay Flodine API no. 4  
Well location: QQ      section      township 40S range 26E county San Juan  
Effective Date of Transfer: 04/01/98

**CURRENT OPERATOR**  
Transfer approved by:  
Name Margaret Grant Company Apache Corporation  
Signature Margaret Grant Address 2000 Post Oak Blvd., Suite 100  
Title Regulatory Analyst Houston, TX. 77056-4400  
Date October 8, 1999 Phone ( 713 ) 296-7212  
Comments:

**NEW OPERATOR**  
Transfer approved by:  
Name Arlene Valliquette Company Merit Energy Company  
Signature Arlene Valliquette Address 12222 Merit Dr., Suite 1500  
Title Manager, Regulatory Affairs Dallas, Texas 75251  
Date October 05, 1999 Phone ( 972 ) 701-8377  
Comments:

(State use only)  
Transfer approved by A. Hunt Title Tech. Services Manager  
Approval Date 2/15/00

**OPERATOR CHANGE WORKSHEET**

Routing:	
1. <u>ADJ</u> ✓	6. <u>KDK</u> ✓
2. <u>ALH</u> ✓	7. <u>KAS</u> ✓
3. <u>ADW</u> ✓	8. <u>ADW</u> ✓
4. <u>ADW</u> ✓	9. <u>FILE</u>
5. <u>JRB</u> ✓	

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

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator       Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 4-1-98

**TO:** (new operator) MERIT ENERGY COMPANY  
 (address) 12222 MERIT DR STE 1500  
DALLAS, TX 75251  
MARTHA ROGERS  
 Phone: (972)383-6511  
 Account no. N4900

**FROM:** (old operator) APACHE CORPORATION  
 (address) 2000 POST OAK BLVD #100  
HOUSTON, TX 77056-4400  
 Phone: (713)296-6356  
 Account no. N5040

**\*ISMAY FLODINE PARK UNIT (NAV)**

WELL(S) attach additional page if needed:

Name: <u>**SEE ATTACHED**</u>	API: <u>4303716179</u>	Entity: _____	S <u>22</u>	T <u>405</u>	R <u>268</u>	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

**OPERATOR CHANGE DOCUMENTATION**

- See 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 4-17-98)
- See 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 4-6-98)
- N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_
- ADP 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below. (1.11.99)
- ADP 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (2.11.00)
- ADP 6. **Cardex** file has been updated for each well listed above.
- JJA 7. Well file labels have been updated for each well listed above.
- ADP 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (2.11.00)
- ADP 9. A folder has been set up for the **Operator Change** file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.
2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

**BOND VERIFICATION - (FEE WELLS ONLY)**

- N/A 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operator's bond files.
3. The FORMER operator has requested a release of liability from their bond (yes/no) \_\_\_\_\_, as of today's date \_\_\_\_\_. If yes, division response was made to this request by letter dated \_\_\_\_\_.

**LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY**

- N/A 1. Copies of documents have been sent on \_\_\_\_\_ to \_\_\_\_\_ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated \_\_\_\_\_ 19 \_\_, of their responsibility to notify all interest owners of this change.

**FILMING**

1. All attachments to this form have been microfilmed. Today's date: APR. 24 2001

**FILING**

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

**COMMENTS**

991102 called Arlene Valliquette (972-383-1558) per Ed Bonner to tell her that Merit Energy Co. only has 20,000 thru Actra for 1 well. Merit is acquiring 5 state wells and needs to have a statewide bond in place before the op. change can be processed.

000207 per Ed Bonner of SITLA, Merit Energy does now have a 80,000 Statewide Bond. He will call me back w/ bond # & info. Per Ed, I can proceed with operator change.

Well Data

NAVAJO J-21 (T-322)

APACHE CORPORATION

ISMAY

SAN JUAN

1820 FSL 1935 FWL

4128892.00

672668.00

N5040

380

2

W

5275° DF

NESW

22

40.0 S

26.0 E

S

INDIAN

A

#

250060

578274

69174

(I-149-IND-9124):760913 APRV CONV WW:770713 COMM WW:910611 OPER FR N0980 EFF 1-1-91(MERGER):951204  
OPER FR N5700 EFF 3-1-95:

Print

Save

Cancel

Help

Quit

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Ismay Flodine Park T-322	API Number 4303716179
Location of Well Footage : 1820' FSL & 1935' FWL County : San Juan QQ, Section, Township, Range: NESW 22 40S 26E State : UTAH	Field or Unit Name Ismay Flodine Park Unit Lease Designation and Number I-149-IND-9124

EFFECTIVE DATE OF TRANSFER: 9/30/00

**CURRENT OPERATOR**

Company: <u>Merit Energy Company</u>	Name: <u>Arlene Valliquette</u>
Address: <u>12222 Merit Drive, Suite 1500</u>	Signature: <u><i>Arlene Valliquette</i></u>
<u>city Dallas state TX zip 75251</u>	Title: <u>Manager - Regulatory Affairs</u>
Phone: <u>(972) 701-8377</u>	Date: <u>9/29/00</u>
Comments:	

**NEW OPERATOR**

Company: <u>Journey Operating, L.L.C.</u>	Name: <u>Brian A. Baer</u>
Address: <u>1201 Louisiana, Suite 1040</u>	Signature: <u><i>Brian A. Baer</i></u>
<u>city Houston state TX zip 77002</u>	Title: <u>President</u>
Phone: <u>(713) 655-0595</u>	Date: <u>10/6/00</u>
Comments:	

(This space for State use only)

Transfer approved by: *ACTA* Approval Date: 5/28/03  
Title: *Public Services Manager*

Comments: Case # 104-2  
UTC Administered by EPA on final release.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.  
**I-149-IND-9124**

6. If Indian, Allottee or Tribe Name  
**Navajo Tribe**

7. If Unit or CA/Agreement, Name and/or No.  
**Ismay-Flodine Park Unit**

8. Well Name and No.  
**Ismay-Flodine Park Unit T-322**

9. API Well No.  
**43-037-16179**

10. Field and Pool, or Exploratory Area  
**Ismay Field**

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

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

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

2. Name of Operator  
**Merit Energy Company**

3a. Address  
**12222 Merit Dr., Suite 1500, Dallas, TX. 75251**

3b. Phone No. (include area code)  
**972-383-6569**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**1820' FSL & 1935' FWL (NE SW)  
Sec. 22-T40S-R26E**

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

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

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

Merit Energy Company respectfully request approval for extending the shut-in status of water supply well T-322. This well can provide a future supply of make-up water for the unit. A Casing Integrity Test will be run as soon as weather permits. This will be done no later than June 1, 2000.

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

Name (Printed/Typed)

**Lynne Moon**

Title

**Regulatory Analyst**

Signature

*Lynne Moon*

Date

**1/31/00**

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

*Mark Deehan* **ACTING**

Title

**Team Lead**

Date

**2/10/00**

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

Office

Title 18 U.S.C. Section 1001, 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.

(Instructions on reverse)

**OPERATOR**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
**I-149-IND-9124**

6. If Indian, Allottee or Tribe Name  
**Navajo Tribe**

7. If Unit or CA/Agreement, Name and/or No.  
**Ismay-Flodine Park Unit**

8. Well Name and No.  
**# T-322**

9. API Well No.  
**43-037-16179**

10. Field and Pool, or Exploratory Area  
**Ismay**

11. County or Parish, State  
**San Juan, UT**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

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

2. Name of Operator  
**Merit Energy Company**

3a. Address  
**12222 Merit Dr., Suite 1500, Dallas, TX. 75251**

3b. Phone No. (include area code)  
**972-701-8377**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**1820' FSL & 1935' FWL, NE SW Section 22, T-40-S, R26-E**

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

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

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

1. Release Packer and pull tubing out of hole.  
 2. Plug #1 - Set cement retainer at 5750'. Pump 20 sacks of cement under the cement retainer at 5750', and bring top of cement to 5500' to cover top of Ismay.  
 3. Plug #2 - Spot a cement plug from 4944' - 4844' inside the 4 1/2" casing to cover Hermosa top.  
 4. Plug #3 - Spot a cement plug from 3200' - 2900' inside the 4 1/2" casing to cover the DeChelle top.  
 5. Plug #4 - Perforate the 4 1/2" casing at 2500'. Set a cement retainer at 2450'. Squeeze cement outside of casing to top of surface casing shoe @ +/- 1500 with 200 sacks of cement. Place 10 sacks of cement on top of the cement retainer to 2350' inside the casing.  
 6. Plug #5 - Spot a cement plug from 750' - surface inside the 4 1/2" casing with 50 sacks of cement.  
 7. Cut off wellhead. Weld on capping plate. Set plug and abandon stake. Complete job.

**RECEIVED**

SEP 05 2000

cc: Utah Division of Oil, Gas & Mining

**DIVISION OF OIL, GAS AND MINING**

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

Name (Printed/Typed) <b>Arlene Valliquette</b>	Title <b>Manager - Regulatory Affairs</b>
Signature <i>Arlene Valliquette</i>	Date <b>August 31, 2000</b>

**THIS SPACE FOR FEDERAL OR STATE USE**

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

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

K.B. ELEV. 5274'  
 D.F. ELEV. \_\_\_\_\_  
 GROUND LEVEL 5267'  
 CORR. \_\_\_\_\_

**SURFACE CASING**

SIZE 13 3/8" WEIGHT 48# DEPTH 102'  
 GRADE ? CMT. 150 sxs

HOLE 11"  
 SIZE \_\_\_\_\_

**INTERMEDIATE STRING**

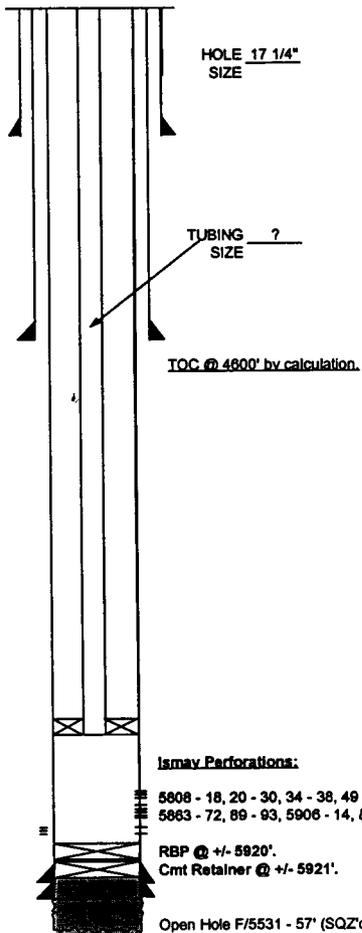
SIZE 8 5/8" WEIGHT 24# DEPTH 1503'  
 GRADE ? CMT. 1100 sxs

HOLE 6 3/4"  
 SIZE \_\_\_\_\_

**PRODUCTION STRING**

SIZE 4 1/2" WEIGHT 9.5# DEPTH 5931'  
 GRADE ? CMT. 250sxs

PBTD @ 5920'  
 TD @ 5957'



**INDIVIDUAL WELL HISTORY**

LEASE & WELL NO. #T - 322  
 FIELD NAME Ismay - Flodine Park Unit  
 LOCATION 1820 FSL & 1935' FWL, NE SW, Section 22, T-40-S, R-26-E

**EQUIPMENT DETAILS**

**TUBING DETAIL:**

179 lts tbq w/ pkr

RODS \_\_\_\_\_ -5/8"  
 \_\_\_\_\_ -3/4"  
 \_\_\_\_\_ -7/8"  
 \_\_\_\_\_ -1"

**PUMP SIZE**

CSG. AND COLLARS @ \_\_\_\_\_

**WELL HISTORY: Spud Date: 1/22/60**

Feb-60 Set cmt ret @ 5920'. Block SQZ OH section F/5531 - 57 W/75 sxs cmt.  
 Perf Ismay F/5908 - 14 (4 JSPF). Acidize W/500 gals 15% HCL.  
 Perf Ismay F/5808 - 18, 20 - 30, 34 - 38, 63 - 72, & 89 - 93 (4 JSPF).  
 Acidize same W/3000 gals 15% HCL in 3 equal stages using RBP.  
 Push RBP to bottom of hole after acidizing. IP = 960 BOPD + 0 BWPD.  
 Dec-62 Acidize perms F/5889 - 5914 W/2500 gals 15% LFL acid @ 1000 psi & 2.6 BPM.  
 Acidize perms F/5808 - 72 W/6000 gals 15% LFL acid 250 gals TDA & 200 gals  
 15% HCL in 3 equal stages @ 2500 psi & 2.9 BPM.  
 Jul-77 CO well to PBTD @ 5920'. Perf Ismay F/5849 - 55 & 5915 - 18 (2 JSPF).  
 Convert well to injection.  
 Nov-90 SI well.  
 May-95 Acidize well W/2600 gals 15% HCL.  
 Nov-95 Well passes MIT test. Apache requests an extension of the SI status of the  
 well for possible future benefit to the unit. Apache states that a future MIT  
 will be scheduled for 11/98.

FORMER NAME Navajo Tribe "J" #21  
 COUNTY & STATE San Juan, UT  
 API NO. 43 - 037 - 16179

**WELL HISTORY (CONT.)**

**SPECIAL TEST (CORE, PRESSURE, ETC.)**

**RECEIVED**  
 SEP 05 2000  
 DIVISION OF  
 OIL, GAS AND MINING

**MERIT ENERGY COMPANY**  
**CONDITION OF HOLE & PROCEDURE**

**DATE:** 8-29-00

**FIELD:** *Ismay - Flodine Park Unit*      **AREA:** *San Juan County, Utah*

**RESERVOIR:** *Ismay*      **WELL NO.** *#T - 322*

**REASON FOR WORK:** *Plug & Abandon Procedure*

**CONDITION OF HOLE:** *4 1/2" casing clear from surface to 5510' & open hole from .*

**TOTAL DEPTH:** *5,957'*      **PBTD:** *5,920'*      **DATUM IS** *10'*      **ABOVE:** *GL*

**CASING RECORD:** *13 3/8", 48#@ 102' cmt'd w/150sxs (circ'd)*  
*8 5/8", 24# @ 1503' cmt'd w/1100 sxs (circ'd)*  
*4 1/2", 9.5# @ 5,931' cmt'd w/250 sxs (TOC @ 4,600')*

**PERFORATIONS:** *Ismay: 5808'-5855'*  
*5863'-5893'*  
*5906'-5918'*

**TUBING DETAIL:** *179 Jts of Tubing(5750'+/-)*  
*4 1/2" packer @ 5750'+/-*

**ROD & PUMP DETAIL:** *Unknown*

**PROCEDURE:**

- 1. Release Packer and pull tubing out of hole.*
- 2. Plug #1 - Set cement retainer at 5750'. Pump 20 sacks of cement under the cement retainer at 5750', and bring top of cement to 5500' to cover top of Ismay.*
- 3. Plug #2 - Spot a cement plug from 4944' - 4844' inside the 4 1/2" casing to cover Hermosa top.*
- 4. Plug #3 - Spot a cement plug from 3200' - 2900' inside the 4 1/2" casing to cover the DeChelle top.*
- 5. Plug #4 - Perforate the 4 1/2" casing at 2500'. Set a cement retainer at 2450'. Squeeze cement outside of casing to top of surface casing shoe @ +/- 1500 with 200 sacks of cement. Place 10 sacks of cement on top of the cement retainer to 2350' inside the casing.*
- 6. Plug #5 - Spot a cement plug from 750' - surface inside the 4 1/2" casing with 50 sacks of cement.*
- 7. Cut off wellhead. Weld on capping plate. Set plug and abandon stake. Complete job.*

**RECEIVED**

SEP 05 2000

DIVISION OF  
OIL, GAS AND MINING



5. If NO, the operator was contacted contacted ( \_\_\_\_\_ )

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

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM - N/A BIA- Not Given

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: \_\_\_\_\_ BIA- Not Given

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

10. **Underground Injection Control ('** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 05/28/2003

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Databas 05/28/2003 and 06/05/2003
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 05/28/2003 and 06/05/2003
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

**STATE WELL(S) BOND VERIFICATION:**

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

**FEDERAL WELL(S) BOND VERIFICATION:**

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

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: RLB 0002489

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number N/A
2. The FORMER operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CHANGE OF OPERATOR**  
**from Merit Energy Company to Journey Operating, L.L.C.**  
**San Juan County, Utah**

**Attachment to Utah Form 19**

<b>Well Type</b>	<b>Lease Serial No.</b>	<b>Field Name</b>	<b>Well Name/Number</b>	<b>API Number</b>	<b>Location of Well</b>
Oil Well	UTU-40361	Bannock	Bannock Federal #21-33	43-037-31425	NE NW (685' FNL & 1520' FWL) Sec. 33-T38S-R24E
Injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park R-124	43-037-16169	NE NE (660' FNL & 660' FEL) Sec. 24-T40S-R25E
Oil Well	14-20-603-2055-A	Ismay	Ismay Flodine Park S-216	43-037-15546	SW NW (1820' FNL & 500' FWL) Sec. 16-T40S-R26E
Injection Well	14-20-603-2055-A	Ismay	Ismay Flodine Park T-316	43-037-16462	NE SW (1980' FSL & 1980' FWL) Sec. 16-T40S-R26E
Oil Well	14-20-603-2055-A	Ismay	Ismay Flodine Park S-416	43-037-15544	SW SW (1820' FNL & 500' FWL) Sec. 16-T40S-R26E
Oil Well	14-20-603-2055-A	Ismay	Ismay Flodine Park U-416	43-037-15545	SW SE (660' FSL & 1980' FEL) Sec. 16-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-117	43-037-16456	NE NW (775' FNL & 1995' FWL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-217	43-037-16170	SW NW (1980' FNL & 660' FWL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-117	43-037-16188	NE NE (660' FNL & 660' FEL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-217	43-037-16180	SW NE (1980' FNL & 1820' FEL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-317	43-037-16463	NE SW (1980' FSL & 1980' FWL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-417	43-037-16185	SW SE (500' FSL & 1820' FEL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-118	43-037-16457	NE NW (660' FNL & 1980' FWL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park S-218	43-037-16171	SW NW (1820' FNL & 660' FWL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-318	43-037-16464	NE SE (1980' FSL & 1980' FWL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park V-318	43-037-16467	NE SE (1980' FSL & 660' FEL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park U-418	43-037-16186	SW SE (660' FSL & 1980' FEL) Sec. 18-T40S-R26E
Injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-119	43-037-16458	NE NW (660' FNL & 1980' FWL) Sec. 19-T40S-R26E
Water Source Well	I-149-IND-9123	Ismay	Ismay Flodine Park V-219	43-037-16519	SE NE (1980' FNL & 560' FEL) Sec. 19-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-120	43-037-16190	NE NE (660' FNL & 660' FEL) Sec. 20-T40S-R26E
Water Source Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-220	43-037-20055	SE NE (1950' FNL & 1120' FEL) Sec. 20-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-121	43-037-31629	NW NW (500' FNL & 660' FWL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-121	43-037-16460	NE NW (610' FNL & 2050' FWL) Sec. 21-T40S-R26E
Water Source Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-121	43-037-20056	NW NE (540' FNL & 1980' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-121	43-037-16191	NE NE (660' FNL & 660' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-421	43-037-11267	SW SE (660' FSL & 1980' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-321	43-037-16194	NE SE (1980' FSL & 670' FEL) Sec. 21-T40S-R26E

**CHANGE OF OPERATOR**  
**from Merit Energy Company to Journey Operating, L.L.C.**  
**San Juan County, Utah**

**Attachment to Utah Form 19**

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-222	43-037-16173	SW NW (2030' FNL & 820' FWL) Sec. 22-T40S-R2
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-322	43-037-16179	NE SW (1820' FSL & 1935' FWL) Sec. 22-T40S-26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-422	43-037-16187	SW SE (820' FSL & 2140' FEL) Sec. 22-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park S-227	43-037-16231	SW NW (2140' FNL & 820' FWL) Sec. 27-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park U-127	43-037-31648	NE NE (745' FNL & 595' FEL) Sec. 27-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park U-227	43-037-16234	SW NE (2120' FNL & 1950' FEL) Sec. 27-T40S-R26E
Oil Well	14-20-603-2058-A	Ismay	Ismay Flodine Park U-234	43-037-16184	SW NE (1980' FNL & 2080' FEL) Sec. 34-T40S-R26E
Water Source Well	UTU-20894	Kachina	Wash Unit #2	43-037-31324	SE SE (470' FSL & 850' FEL) Sec. 13-T38S-R23E
Oil Well	UTU-20895	Kachina	Havasu Federal #41-24	43-037-31279	NE NE (1050' FNL & 500' FEL) Sec. 24-T38S-R23E
Injection Well	UTU-20895	Kachina	Havasu Federal #42-24	43-037-31298	SE NE (1970' FNL & 461' FEL) Sec. 24-T38S-R23E
Injection Well	UTU-56186	Kachina	Arabian Federal #2	43-037-31282	NW SW (2180' FSL & 950' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Arabian Federal #3	43-037-31287	NE SW (1470' FSL & 1750' FWL) Sec. 19-T38S-R24E
Injection Well	UTU-56186	Kachina	Havasu Federal #11-19	43-037-31458	NW NW (940' FNL & 590' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasu Federal #12-19	43-037-31457	SW NW (1840' FNL & 410' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasu Federal #12-19A	43-037-31459	SW NW (2520' FNL & 200' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasu Federal #22-19	43-037-31278	SW NW (1850' FNL & 1255' FWL) Sec. 19-T38S-R24E
Injection Well	UTU-52333	Kiva	Navajo Federal #12-4	43-037-31395	SW NW (2260' FNL & 440' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #14-4	43-037-31321	SW SW (1150' FSL & 1110' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #23-4	43-037-31259	NE SW (1500' FSL & 2500' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Kiva Federal #24-4	43-037-31745	SE SW (1057' FSL & 1997' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #4-1	43-037-31112	SE SW (370' FSL & 1940' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #4-2	43-037-31161	SW SE (300' FSL & 2225' FEL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #4-4	43-037-31179	NW SW (1980' FSL & 660' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-57895	Kiva	Navajo Federal #42-5	43-037-31261	SE NE (2130' FNL & 320' FEL) Sec. 5-T39S-R25E
Injection Well	UTU-58728	Kiva	Navajo Federal #43-5	43-037-31317	NE SE (1954' FSL & 627' FEL) Sec. 5-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #9-1	43-037-31001	NW NE (770' FNL & 2010' FEL) Sec. 9-T39S-R25E

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No.: 1004-0128

Expires: November 30, 2000

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

5. Lease Designation and Serial No.  
**1-149-IND-9124**

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.  
**#T-322**

9. API Number  
**43-037-16179**

10. Field and Pool or Exploratory Area  
**Ismay**

11. County or Parish, State  
**San Juan, UT**

1. Type of well  
 Oil Well     Gas Well     Other Injection Well

2. Name of Operator  
**Journey Operating, L.L.C.**

3a. Address and Telephone No.  
**1201 Louisiana, Suite 1040, Houston, Tx 77002**

3b. Phone No. (include area code)  
**713-655-0595**

4. Location of Well (Footage, Sec, T,R, or Survey Description)  
**1820' FSL & 1935' FWL (NE SW)  
Sec 22, T40S, R26E**

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

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

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

This well was plugged and abandoned on 3/12/02 per the attached activity reports.

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

Signed: *Sandra Meche* Title: Sr. Regulatory Analyst Date: 3/28/02

(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 any department or agency of the United State any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instructions on Reverse Side

RECEIVED  
JUN 28 2006  
DIV. OF OIL, GAS & MINING