

Salt Water Injection Well

Texaco, Inc. 2 Navajo-AQ  
NW/4-NE/4 Sec 21-41N-25E  
Apache, County

260

P-W

COUNTY sl Apache AREA Walker Creek LEASE NO. 14-20-603-4194

WELL NAME Texaco 2 Navajo-AG  
 LOCATION NW NE SEC 21 TWP 41N RANGE 25E FOOTAGE 660 FNL 1980 FEL  
 ELEV GR 4861 RB SPUD DATE 2-2-64 STATUS PEA 3/21/70 TOTAL DEPTH 6781

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	DRILLED BY CABLE TOOL	PRODUCTIVE RESERVOIR	INITIAL PRODUCTION
9 5/8	905	300	NA	<input checked="" type="checkbox"/>			
4 1/2	3570						
4 1/2	6575	160					P&A

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
DeChelly	1925		x	Am Strat differs
Organ Rock	2428			
Honaker Trail	3985			
Ismay	4710			
Desert Creek	4830			
Akahi	4900			
Barber Creek	5093			
Lower Paradox	5310			
Molas	5568			
Miss	5653			
Ouray	6005			
Eibert	6135			
McCracken	6385			
Aneth	6477			
Bright Angel	6636			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
IE, GR	NA	NA	Am Strat
	6403-6417	Dry	SAMPLE DESCRP.
	6464-6475		SAMPLE NO. <u>1288</u>
			CORE ANALYSIS
			DSTs <input checked="" type="checkbox"/>
			*Tucson 2005

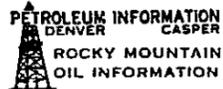
REMARKS Salt water injection well - case 19 order 17 10-21-64  
 APP. TO PLUG   
 PLUGGING REP.   
 COMP. REPORT

WATER WELL ACCEPTED BY \_\_\_\_\_  
 BOND CO. Lumbermen's Casualty BOND NO. 5 S 181 275 (3-15-75)  
 BOND AMT. \$ 25,000 CANCELLED 4-23-97 DATE \_\_\_\_\_  
 FILING RECEIPT 9364 LOC. PLAT  WELL BOOK  PLAT BOOK   
 API NO. 02-001-05179 DATE ISSUED \_\_\_\_\_ DEDICATION W/2 NE/4

PERMIT NUMBER 266



ARIZONA  
APACHE CO.  
WALKER CREEK (D)



Twp 41n-25e  
Section 21  
nw ne  
660 s/n 1980 w/e

OPR: Texaco Inc

WELL #: 2 Navajo Tribe-AG

ELEV: 4862 DF	DSTS. & CORES:	SPUD: 2-2-64	COMPL: 3-20-64
TOPS: Log <del>22012</del>	No cores, DST 6365-6465	TD: 6781	PB: 6507
DeChelly 1925	open 1 1/2 hrs, rec 560 salt	CSG: 9-5/8" @ 905 w/300	
Organ Rock 2428	WCM, 280 heavily MC	4 1/2" @ 6575 w/100	
Honaker Trail 3985	salt wtr.	PERF: 6464-75 w/1 per ft. Acidized.	
Ismay 4710		Swbd 5 hrs, rec 20 bbls salt wtr.	
Desert Creek 4883		Re-acidized, Swbd dry. Perf	
Akah 4900		6403-17 w/20 total. Acidized.	
Barker Creek 5093			
Lower Paradox 5310			
Molas 5568			
Mississippian 5653			
Ouray 6005			
Elbert 6135			
McCracken 6385			
Aneth 6477			
Bright Angel 6636			
preCambrian 6732			

Contr: Pico

PROD. ZONE:

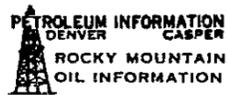
INIT. PROD: D&A. (To be used as  
salt wtr disposal well).

(Well was dropped from report 6-26-64).

(RE-ISSUED CARD)

ARIZ-563230

ARIZONA  
APACHE CO.  
WALKER CREEK (D)



Twp 41n-25e  
Section 21  
nw ne  
660 s/n 1980 w/e

OPR: Texaco Inc

WELL #:

2 Navajo Tribe-AG

ELEV: 4862 DF.

DSTS. & CORES:

SPUD: 2-2-64      COMPL: 3-20-64

TOPS: Log-Sample

TD: 6781      PB:

CSG: 9-5/8" @ 905 w/300  
4 1/2" @ 6575 w/100

PERF: 6464-75. Acidized. Perf 6403-17.  
Acidized.

PROD. ZONE:

INIT. PROD:

Salt wr disposal well  
(Tight hole).  
ARIZ 3-460360

Contr: Pico

(CARD WILL BE RE-ISSUED WHEN DATA RELEASED)



Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-4194

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Navajo Tribe "AG"

8. FARM OR LEASE NAME

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Walker Creek

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

21-41N-25E, SR & GM

12. COUNTY OR PARISH 13. STATE

Apache Arizona

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

TEXACO Inc. - Prod. U. S. West

3. ADDRESS OF OPERATOR

Box 810, Farmington, New Mexico 87401

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

660 ft from No. & 1980 ft from E. lines

14. PERMIT NO.

15. ELEVATIONS (Show whether DV, RT, OR, etc.)

4861 RT

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

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

Well was a dry hole but was completed as a salt water disposal well for AG Well No. 1, which is being plugged & abandoned. Therefore well is no longer required & will be plugged w/ 15 sack cement plug from 6507 (PSTD) to 6353. Fill hole w/ mud & spot 10 sack plug @ surface, and set pipe marker. Clean location for inspection.

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

SIGNED

TITLE

Dist. Supt.

DATE

12-20-69

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

DATE

\*See Instructions on Reverse Side

USGS(3)CGCC(2)HNB-OLE-WLW-Navajo Tribe  
Phoenix



OK

per  
464-6771

206

**WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG**

DESIGNATE TYPE OF COMPLETION:

New Well  Work-Over  Deepen  Plug Back  Same Reservoir  Different Reservoir  Oil  Gas  Dry

DESCRIPTION OF WELL AND LEASE

Operator <b>TEXACO Inc.</b>		Address <b>Box 810, Farmington, New Mexico</b>			
Lease Name <b>Navajo Tribe "AG"</b>		Well Number <b>2</b>	Field & Reservoir <b>Walker Creek Devonian</b>		
Location <b>660' from North Line and 1980' from East Line, Sec. 21, T-41N, R-25-E, SR&amp;GM</b>					
County <b>Apache</b>	Permit number <b>266</b>	Date issued <b>1-30-64</b>	Previous permit number <b>-</b>	Date issued <b>-</b>	
Date spudded <b>2-2-64</b>	Date total depth reached <b>3-7-64</b>	Date completed, ready to produce <b>3-20-64 dry hole</b>	Elevation (DF, RKB, RT or Gr.) <b>4861 KB</b>	Elevation of casing hd. flange <b>4850'</b>	
Total depth <b>6781'</b>	P.B.T.D. <b>6507'</b>	Single, dual or triple completion? <b>-</b>	If this is a dual or triple completion, furnish separate report for each completion. <b>-</b>		
Producing interval (s) for this completion <b>Dry hole</b>		Rotary tools used (interval) <b>0 to 6781'</b>		Cable tools used (interval) <b>None</b>	
Was this well directionally drilled? <b>No</b>	Was directional survey made? <b>-</b>	Was copy of directional survey filed? <b>-</b>	Date filed <b>-</b>		
Type of electrical or other logs run (check logs filed with the commission) <b>Induction - Electrical and Gamma Ray-Sonic</b>				Date filed <b>Unavailable</b>	

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12-1/4	9-5/8"	32.3	905	300	None
Production	7-7/8	4-1/2	9.5	3570	-	None
		4-1/2	11.6	6575	160	None

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
None	in.	ft.	None	in.	ft.	-	-

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
20	1/2" jet	6403' to 6417'	250 gals mud acid & 1000 gals reg. acid	6464' to 6475'
11	1/2" jet	6464' to 6475'	250 gals mud acid	6403-6417'

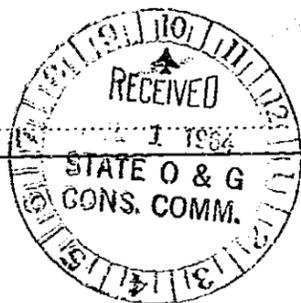
INITIAL PRODUCTION

Date of first production <b>Dry hole</b>		Producing method (indicate if flowing, gas lift or pumping—If pumping, show size & type of pump): <b>-</b>				
Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
-	-	-	bbls.	MCF	bbls.	* API (Corr)
Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
-	-	-	bbls.	MCF	bbls.	-

Disposition of gas (state whether vented, used for fuel or sold):  
**-**

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Acting District Sup't.** of the **TEXACO Inc.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date **June 26, 1964**



Signature *[Handwritten Signature]*

266

STATE OF ARIZONA OIL & GAS  
CONSERVATION COMMISSION  
Well Completion or Recompletion Report and Well Log  
Form No. P-7  
File two copies  
Authorized by Order No. **4659**  
Effective **April 6, 1959**

★ **DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
DeChelly	1925		DST #1, 6365' to 6465'. Tool open 1-1/2 hours with a fair blow at beginning of test increasing to a good blow and continuing throughout test. Recovered 920' of drilling mud, 560' of salt water cut mud and 280' of heavy mud cut salt water. No show of oil or gas.
Organ Rock	2428		
Honaker Trail	3985		
Ismay	4710		
Desert Creek	4830		
Akah	4900		
Barker Creek	5093		
Low. Paradox	5310		
Molas	5568		
Mississippian	5653		
Ouray	6005		
Elbert	6135		
McCracken	6385		
Aneth	6477		
Bright Angel	6636		
Pre Cambrian	6732		

NOTE: Well is now being held for a possible salt water injection well.

\* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

**INSTRUCTIONS:**

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

INJECTION WELL REPORTS

Filed in cabinet of Enforcement Director

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.

14-20-603-4194

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo Tribe "AG"

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Walker Creek Devonian

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

21, 41-N, 25-E, SR&OM

12. COUNTY OR PARISH

13. STATE

Apache

Arizona

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  **Drilling Well**

2. NAME OF OPERATOR

TEXACO Inc.

3. ADDRESS OF OPERATOR

Box 810, Farmington, New Mexico 87401

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

660' from North Line and 1980' from East Line

14. PERMIT NO.

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

4861' RT

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

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

Total depth 6781'. Plugged back depth 6507'. After cementing 4 1/2" casing, top of cement plug was found to be at 6507'. Tested casing with 1000 psi for 30 minutes without a drop in pressure. Perforated 4 1/2" casing from 6464-6475' with one shot per foot. Ran 2-3/8" plastic lined tubing to 6495', with packer set at 6432'. Swabbed 23 barrels of load water and 6 barrels of new water in 7 hours and well swabbed dry. Acidized perforations with 250 gallons mud acid. Treating pressure 1150 to 575 psi with an average injection rate of 18 gallons per minute. After treatment, swabbed 22 barrels of load water, 6 barrels of acid residue and 20 barrels of salt water in 5 hours and well swabbed dry. Reacidized perforations with 1000 gallons of regular 15% acid. Treating pressure 2100 to 1800 psi with an average injection rate of 4 barrels per minute. Five minute shut-in pressure after completing treatment was 200 psi. After treatment, swabbed load water and acid residue and well swabbed dry. Perforated 4 1/2" casing from 6403' to 6417' with 20 jet shots. With RTTS packer set at 6370' and retrievable bridge plug at 6432', swabbed 7 barrels of water in 4 hours. Acidized perforations with 250 gallons of mud acid. Treating pressure 1700 psi with an injection rate of 4.5 barrels per minute. After completing treatment, injected water into well at the rate of 2 barrels per minute at 825 psi, 3 barrels per minute at 1000 psi, 4 barrels per minute at 1500 psi, and 4.5 barrels per minute at 1700 psi. (OVER)

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

SIGNED

*[Signature]*

TITLE District Superintendent

DATE June 25, 1964

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side



Instant shut-in pressure after completing injectivity test was 400 psi, after five minutes pressure was 150 psi and after 10 minutes pressure was 0. Pulled tubing with packer and bridge plug and capped well. Well is now being held as a possible salt water injection well.

**Instructions**

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; date on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; and other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and data well site conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1961-O-502328

GENERAL INSTRUCTIONS AND REPORTS ON WELLS

DEPARTMENT OF THE INTERIOR  
UNITED STATES

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TR... CATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-4194

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo Tribe "AO"

9. WELL NO.

8

10. FIELD AND POOL, OR WILDCAT

Walker Creek Devonian

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

21, 41-N, 25-E, SR60M

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

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  **Drilling Well**

2. NAME OF OPERATOR

TEXACO Inc.

3. ADDRESS OF OPERATOR

Box 810, Farmington, New Mexico 87401

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

660' from North Line and 1980' from East Line

14. PERMIT NO.

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

4861' RT

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

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

Drilled 7-7/8" hole to 6781' and cemented 6565' of 4-1/2" casing at 6575' with 160 sacks of 50:50 Formix cement with 4% gel added.

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

SIGNED

*A.P. Lane*

TITLE District Superintendent

DATE 6-24-64

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>Drilling</b>		5. LEASE DESIGNATION AND SERIAL NO. <b>14-29-603-4194</b>																				
2. NAME OF OPERATOR <b>TRXACO Inc.</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo</b>																				
3. ADDRESS OF OPERATOR <b>Box 810, Farmington, New Mexico</b>		7. UNIT AGREEMENT NAME																				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>660' from North Line and 1980' from East Line</b>		8. FARM OR LEASE NAME <b>Navajo Tribe "AG"</b>																				
14. PERMIT NO.	15. ELEVATIONS (Show whether DP, RT, GU, etc.) <b>4850' GR</b>	9. WELL NO. <b>2</b>																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT <b>Walker Creek Devonian</b>																				
<table border="0"> <tr> <td colspan="2">NOTICE OF INTENTION TO:</td> <td colspan="2">SUBSEQUENT REPORT OF:</td> </tr> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) <input type="checkbox"/></td> <td>(Other) <input type="checkbox"/></td> </tr> </table>		NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>	11. U.S. GEOLOGICAL SURVEY OR AREA <b>21, 41-N, 25-E, SR60N</b>
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:																				
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>																			
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>																			
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>																			
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>																			
		12. COUNTY OR PARISH <b>Apache</b>																				
		13. STATE <b>Arizona</b>																				

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.)\*

Spudded 3:00 a.m., 2-2-64.

Drilled 12 1/4" hole to 905' and cemented 895' of 9 5/8" O.D. casing at 905' with 300 sacks of Incoor cement with 1% gel and 2% calcium chloride added. Cement circulated. Tested casing with 1000 PSI for 30 minutes. Casing tested okay.



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

SIGNED [Signature] TITLE **District Superintendent** DATE **3-9-64**

(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

266 b

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL  DEEPEN  PLUG BACK

NAME OF COMPANY OR OPERATOR

DATE

TEXACO Inc.

January 27, 1964

Address

City

State

Box 810

Farmington,

New Mexico

DESCRIPTION OF WELL AND LEASE

Name of lease

Well number

Elevation (ground)

TEXACO Inc. "AG" Navajo Tribe

2

4850'

Well location

(give footage from section lines)

Section—township—range or block & survey

660' ENL and 1980' FEL

Sec. 21, T-41-N, R=25-E, SR&GM

Field & reservoir (if wildcat, so state)

County

Walker Creek - Devonian

Apache

Distance, in miles, and direction from nearest town or post office

4 miles Southwest of Mexican Water, Arizona

Nearest distance from proposed location to property or lease line:

Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:

3300

feet

2094

feet

Proposed depth:

6462'

Rotary or cable tools

Rotary

Approx. date work will start

January 31, 1964

Number of acres in lease:

2560

Number of wells on lease, including this well, completed in or drilling to this reservoir:

two

If lease, purchased with one or more wells drilled, from whom purchased:

Name

Address

Status of bond

\$10,000.00 blanket bond on file

Remarks: (if this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

FORMATION TOPS AS EXPECTED

DeChelly - - - - -	-1933'	Elbert - - - - -	-6088'
Honaker Trail - - - - -	-3983'	McCracken - - - - -	-6327'
Ismay - - - - -	-4701'	Aneth - - - - -	-6420'
Mississippian - - - - -	-5639'		

\* Fill in Proposed Casing Program on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Field Foreman of the TEXACO Inc. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

January 27, 1964

Date

Signature

*[Handwritten Signature]*

Permit Number: 266

Approval Date: 1-30-64

Approved By: *[Handwritten Signature]*

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

See Instruction on Reverse Side of Form

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

Application to Drill, Deepen or Plug Back

Form No. P-1

File two copies

Effective Feb. 28, 1962.

266

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9-3/4"	32.3#	H-40	0	900'	900'	300
4-1/2"	9.5#	J-55	0	5700'	5700'	
4-1/2"	10.5#	J-55	5700'	6462'	6462'	100

COMPANY TEXACO INC.

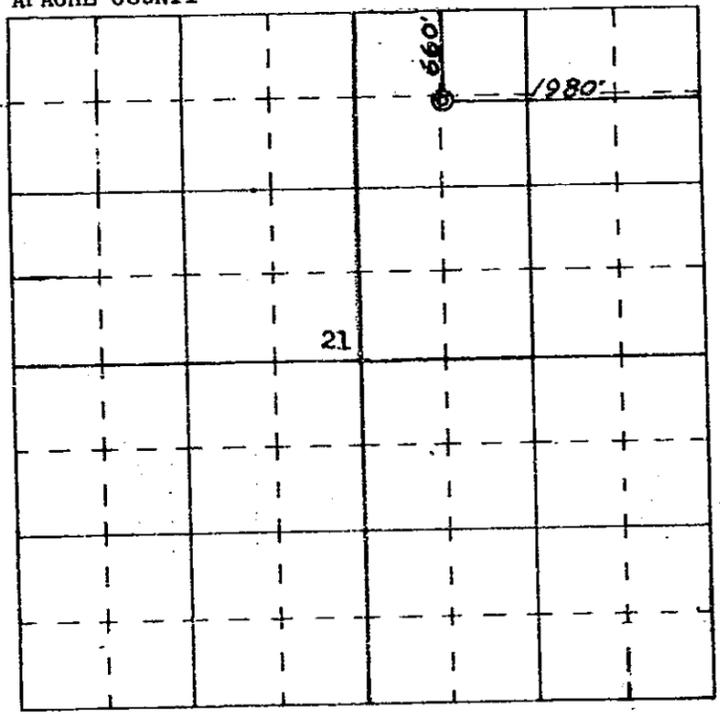
LEASE NAVAJO TRIBAL LEASE-A WELL NO. G-2

SEC. 21 T. 41 NORTH R. 25 EAST, SR&GM

LOCATION 660' FROM THE NORTH LINE AND 1980' FROM THE EAST LINE

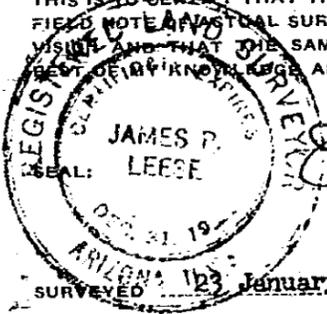
ELEVATION 4850.0 ungraded ground

APACHE COUNTY ARIZ.



SCALE—1 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES AND ORIGINAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

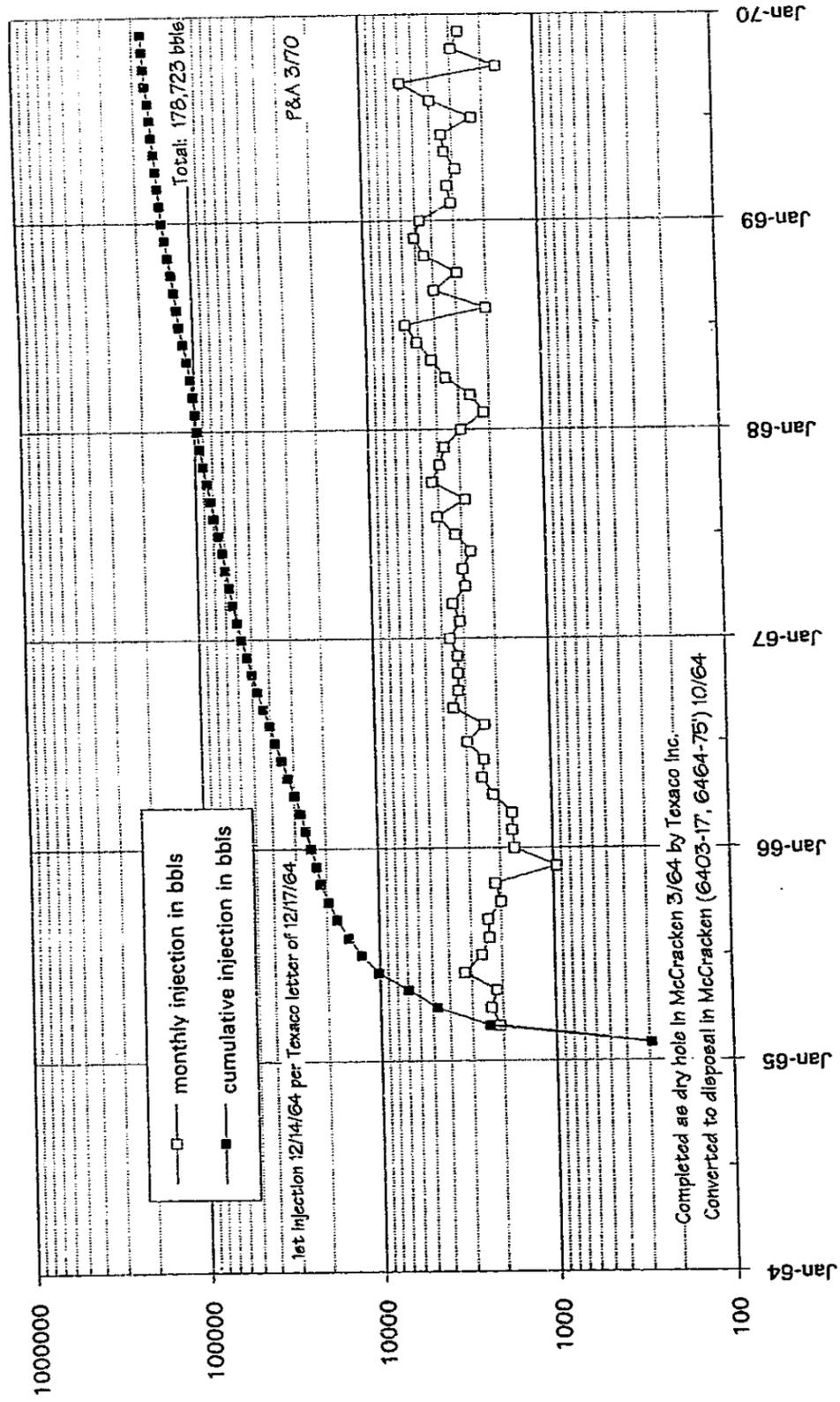


*James P. Lesse*  
Registered Land Surveyor,  
James P. Lesse  
Ariz. Reg. No. 1849

SURVEYED 123 January 1964

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

WATER DISPOSAL AT 2 NAVAJO-AG (266), WALKER CREEK FIELD, ARIZONA: 12/64 -- 12/69  
 nw ne 21-41n-25e, Apache County



MONTHLY WATER DISPOSAL AT 2 NAVAJO-AG (266), WALKER CREEK FIELD, ARIZONA  
(per SLR audit of producer's monthly injection reports 12/64 - 12/69)

DATE	inj bbls	cum bbls	comments
Jan-64			
Feb-64			
Mar-64			
Apr-64			Texaco Inc.
May-64			#2 Navajo-AG (permit 266)
Jun-64			Case 19, Order 17 issued October 21, 1964
Jul-64			6403-17' & 6464-75'
Aug-64			Devonian McCracken ss
Sep-64			
Oct-64			Apparently injected on vacuum throughout
Nov-64			
Dec-64			1st injection 12/14/64 per Texaco letter of 12/17/64
Jan-65			No need to rpt monthly wtr injected per Bannister letter
Feb-65	290	290	290 injection figure estimated to match 2/68 cum
Mar-65	2092	2382	Wtr inj figures 3/65 to 1/68 from production reports
Apr-65	2333	4715	
May-65	2166	6881	
Jun-65	3258	10139	
Jul-65	2600	12739	
Aug-65	2343	15082	
Sep-65	2372	17454	
Oct-65	2009	19463	
Nov-65	2151	21614	
Dec-65	955	22569	
Jan-66	1663	24232	
Feb-66	1697	25929	
Mar-66	1697	27626	
Apr-66	2147	29773	
May-66	2455	32228	
Jun-66	2396	34624	
Jul-66	2953	37577	
Aug-66	2339	39916	
Sep-66	3495	43411	
Oct-66	3270	46681	
Nov-66	3270	49951	
Dec-66	3261	53212	
Jan-67	3593	56805	
Feb-67	3131	59936	
Mar-67	3423	63359	
Apr-67	2889	66248	
May-67	2967	69215	
Jun-67	2664	71879	
Jul-67	3237	75116	
Aug-67	4080	79196	
Sep-67	2815	82011	

MONTHLY WATER DISPOSAL AT 2 NAVAJO-AG (266), WALKER CREEK FIELD, ARIZONA  
(per SLR audit of producer's monthly injection reports 12/64 - 12/69)

Oct-67	4350	86361					
Nov-67	3892	90253					
Dec-67	3640	93893					
Jan-68	2908	96801	Wtr inj figures 3/65 to 1/68 from production reports				
Feb-68	2160	98961	February report carries 98961 bbls cumulative injection				
Mar-68	2565	101526	Bannister letter of 3/14 notes no injection rpts filed				
Apr-68	3529	105055					
May-68	4240	109295					
Jun-68	5101	114396					
Jul-68	5923	120319					
Aug-68	2029	122348					
Sep-68	3969	126317					
Oct-68	2914	129231					
Nov-68	4482	133713					
Dec-68	5080	138793					
Jan-69	4669	143462					
Feb-69	3068	146530					
Mar-69	3214	149744					
Apr-69	2883	152627					
May-69	3313	155940					
Jun-69	3420	159360					
Jul-69	2295	161655					
Aug-69	3958	165613					
Sep-69	5865	171478					
Oct-69	1650	173128					
Nov-69	2932	176060					
Dec-69	2663	178723	Last injection				
Jan-70			Apparently injected on vacuum throughout				
			P&A 3/21/70				



Fife Symington  
Governor

State of Arizona  
**Arizona Geological Survey**

416 W. Congress, Suite 100  
Tucson, Arizona 85701  
(520) 770-3500



Larry D. Fellows  
Director and State Geologist

April 23, 1997

Ms. Carole Newton  
Texaco  
P.O. Box 2100  
Denver, CO 80201

Re: Texaco, Inc.  
\$25,000 Oil Drilling Blanket Bond No. M126180  
Insurance Company of North America

Dear Ms. Newton:

Our records show that neither Texaco or any of its predecessors-in-interest listed in your fax memo of 4/16/97 have any outstanding drilling or plugging obligations in Arizona. As a result, this letter serves as written permission by the Arizona Oil and Gas Conservation Commission to cancel the referenced bond.

Please advise if we may be of further assistance.

Sincerely,

Steven L. Rauzi  
Oil & Gas Administrator



Texaco Exploration and Production Inc  
Denver Division

P O Box 2100  
Denver CO 80201  
4621 DTC Boulevard  
Denver CO 80237

April 21, 1997

Mr. Steven L. Rauzi  
Arizona Geological Survey  
416 W. Congress, Ste. 100  
Tucson, AZ 85701

Dear Mr. Rauzi:

Thank you for your letter dated April 16, 1997. Texaco does request a release from the INA Oil Drilling Bond No. M126180. Please send a confirmation of release to me. Thank you for your assistance.

Very truly yours,

*Carole L. Newton*

Carole L. Newton  
EH&S/Retained Liabilities  
(303) 793-4705



Fife Symington  
Governor

State of Arizona  
**Arizona Geological Survey**

416 W. Congress, Suite 100  
Tucson, Arizona 85701  
(520) 770-3500



Larry D. Fellows  
Director and State Geologist

April 16, 1997

Ms. Carole Newton  
Texaco  
P.O. Box 2100  
Denver, CO 80201

*266*

Re: Texaco, Inc.  
\$25,000 Oil Drilling Blanket Bond No. M126180  
Insurance Company of North America

Dear Ms. Newton:

Our records show that Texaco maintains the referenced oil drilling blanket bond and that neither Texaco or any of its predecessors-in-interest listed in your fax memo of 4/16/97 have any outstanding drilling or plugging obligations in Arizona. We have no record of written permission by the Arizona Oil and Gas Conservation Commission to terminate liability under the bond.

A copy of the referenced bond; Barton's letter of May 7, 1979; continuation certificate dated April 30, 1981; and Wilder's letter of June 9, 1981 are enclosed for your information and file.

Please advise me at the letterhead address if you have any questions or if Texaco wishes to be released from liability under the bond.

Sincerely,

Steven L. Rauzi  
Oil & Gas Administrator

Enclosures

# FAX

Date 4/16/97

Number of pages including cover sheet 1

TO: AZ O&G Conservation  
Commission



Phone 520-770-3500  
Fax Phone 520-770-3505

FROM: Carole Newton  
Texaco  
P. O. Box 2100  
Denver, CO 80201

Phone (303) 793-4705  
Fax Phone (303) 793-4490

CC:

REMARKS:  Urgent  For your review  Reply ASAP  Please Comment

Do your records show Texaco, Inc., Texaco Exploration & Production, Inc. or Texaco USA (or any of its predecessors-in-interest listed below) as having any blanket, surface, operating or plugging bonds?

1. The Texas Company
2. Dome Petroleum Corp.
3. Tidewater
4. Skelly
5. Getty
6. Seaboard Oil Company
7. Reserve Oil, Inc.
8. Lewis Producing

If so, please list the bond(s) and the amount(s) and what the bond covers. You may respond by fax or send your response to the above mailing address. Thank you for your assistance.



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT  
WEST UNITED STATES  
DENVER DIVISION  
J. C. MENCIN, JR.  
DIVISION LANDMAN

RECEIVED  
MAY 10 1979  
O & G CON. COM.

TEXACO INC.  
P. O. BOX 2100  
DENVER, COLORADO 80201  
May 7, 1979

SURETY BONDS - ARIZONA  
1.04-A

Oil and Gas Conservation Commission  
1645 West Jefferson, Suite 420  
Phoenix, Arizona 85007

*266*

In March 1975, Texaco filed with you a \$25,000.00 surety bond for compliance with the Commission rules and regulations. The Surety named in that bond is the Lumbermens Mutual Casualty Company.

Texaco now desires to file a replacement bond and secure cancellation of the presnet bond due to a change in surety. To accomplish the replacement, enclosed is a new bond with Insurance Company of North America as surety. The bond has been properly executed by an Arizona resident agent.

If the enclosed bond is satisfactory please advise us of its acceptance, and the cancellation of the prior bond.

Very truly yours,

J. C. MENCIN, Jr.

By *G. L. Barton*  
G. L. Barton  
Supervisor (Land Records)

GLB  
ms

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. M 12 61 80

That we: Texaco Inc., a Delaware Corporation

of the County of Denver in the State of Colorado

as principal, and Insurance Company of North America

of 1050 - 17th Street, Suite 2200, Denver, Colorado 80202

AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona and the Oil and Gas Conservation Commission, hereinafter referred to as the "Commission", in the penal sum of \$25,000.00 lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation are that, whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to-wit:

This is a blanket bond covering all wells drilled by Principal on lands within the State of Arizona

(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the Laws of this State and the rules, regulations and orders of the Commission, especially with reference to the requirements of A.R.S. §27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil and Gas Conservation Commission all notices and records required by said Commission, then in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, this obligation is void; otherwise it shall remain in full force and effect.

Whenever the principal shall be, and declared by the Oil and Gas Conservation Commission in violation of the Laws of this State and the rules, regulations and orders of the Commission, the surety shall promptly:

1. Remedy the violation by its own efforts, or
2. Obtain a bid or bids for submission to the Commission to remedy the violation, and upon determination by the Commission and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Commission, and make available as work progresses sufficient funds to pay the cost of remedying the violation; but not exceeding, including other costs and damages for which the surety may be liable hereunder, the amount set forth in the first paragraph hereof.

Liability under this bond may not be terminated without written permission of this Commission.

WITNESS our hands and seals, this 2nd day of April, 1979

TEXACO INC.

By: J. C. [Signature]  
Agent and Attorney-in-Fact <sup>Principal</sup>

WITNESS our hands and seals this 2nd day of April, 1979

INSURANCE COMPANY OF NORTH AMERICA

By: Lisa Eacker  
Attorney-in-Fact <sup>Surety</sup> Lisa Eacker

Surety, Resident Arizona Agent  
If issued in a state other than Arizona

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved Date 5-10-79

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

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

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

Bond

File Two Copies

Form No. 9

Permit No. \_\_\_\_\_

CANCELLED  
4-23-97

DEPARTMENT OF OIL AND GAS CONSERVATION COMMISSION  
OF THE STATE OF ARIZONA

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IN THE MATTER OF THE HEARING CALLED  
BY THE OIL AND GAS CONSERVATION  
COMMISSION OF THE STATE OF ARIZONA  
FOR THE PURPOSE OF CONSIDERING:

CASE NO. 15  
ORDER NO. 17

THE APPLICATION OF TEXACO, INC. TO  
DISPOSE OF SALT WATER BY INJECTION  
INTO THE DEVONIAN-MC CRACKEN FORMA-  
TION IN THE NAVAJO TRIBE AC#2 WELL,  
LOCATED IN SECTION 21, TOWNSHIP 41N,  
RANGE 25E, APACHE COUNTY, ARIZONA

ORDER OF THE COMMISSION

BY THE COMMISSION

This cause having come regularly on for hearing at  
2:00 p.m. on October 21, 1964, at Phoenix, Arizona, before the  
OIL AND GAS CONSERVATION COMMISSION of the STATE OF ARIZONA,  
hereinafter referred to as the "COMMISSION".

Now, on this 21st day of October, 1964, the COMMISSION,  
a quorum being present, having considered the testimony present-  
ed and the exhibits received at said hearing, and being fully  
advised in the premises, finds as follows,

FINDINGS:

(1) THAT due public notice having been given as re-  
quired by law, the COMMISSION has jurisdiction of the cause and  
the subject matter thereof.

(2) THAT the request of Texaco, Inc. to dispose of  
salt water produced from the Texaco, Inc. Navajo Tribe "AC"  
No. 1 well from the Devonian-McCracken formation, said well be-  
ing located in NW/4SE/4 of Section 16, Township 41North, Range  
25East, G4SR8M, Apache County, Arizona, into the Devonian-Mc-  
Cracken formation in the Texaco, Inc. Navajo Tribe "AC" No. 2  
well, located in the NW/4NE/4 of Section 21, Township 41North,  
Range 25East, G4SR8M, Apache County, Arizona, would be in the  
public interest of the State of Arizona, would fully and ade-  
quately protect fresh water supplies, both surface and sub-  
surface-wise, and would be in the interest of conserving oil  
and gas in the State of Arizona.

(3) THAT the salt water injection program presented  
to the COMMISSION at this hearing fully complies with Rule 307.  
B.1 and 2 of the COMMISSION's Rules and Regulations.

(4) THAT sufficient evidence was presented to the  
COMMISSION to warrant the establishment of the below described  
area as an area in which, upon administrative approval and  
upon proper showing to the COMMISSION of the consent of all  
operators and surface owners within one-half (1/2) mile of a  
proposed injection program, salt water may be disposed of by  
injection into the Devonian-McCracken formation:

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That portion of Apache County, Arizona lying north of and including Township 39North to the common boundary of the States of Arizona and Utah and lying within Ranges 23East, 24East, 25East, 26East, and 27East.

IT IS THEREFORE ORDERED:

(a) THAT the Petitioner's request for permission to dispose of salt water by injection into the Devonian-McCracken formation in the Texaco, Inc. Navajo Tribe "AS" No. 2 well, located in the NW/4NE/4 of Section 21, Township 41North, Range 25East, G55E30N, Apache County, Arizona, is hereby APPROVED.

(b) THAT that portion of Apache County, Arizona lying north of and including Township 39North to the common boundary of the States of Arizona and Utah and lying with Ranges 23East, 24East, 25East, 26East, and 27East is hereby designated an area in which salt water may be disposed of by injection into the Devonian-McCracken formation upon administrative approval by the COMMISSION and upon proper showing to the COMMISSION of the consent of all operators and surface owners within one-half (1/2) mile of the proposed injection program.

DONE at Phoenix, Arizona, on the day and year hereinabove designated.

OIL AND GAS CONSERVATION COMMISSION  
STATE OF ARIZONA

( S E A L )

By *Lyne Lockhart*  
LYNE LOCKHART, CHAIRMAN

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STATEMENT BEFORE THE  
ARIZONA OIL AND GAS CONSERVATION COMMISSION  
CASE NO. 19  
OCTOBER 21, 1964  
PHOENIX, ARIZONA

On September 15, 1964, TEXACO Inc. filed an application with the Arizona Oil and Gas Conservation Commission for authorization to inject water produced with oil in the Walker Creek Field into the Devonian-McCracken Formation in its Navajo Tribe "AG" No. 2, located 660 feet from the north line and 1980 feet from the east line of Section 21, Township 41 North, Range 25 East, Apache County, Arizona.

The Walker Creek Field was discovered on May 5, 1963 with the completion of the TEXACO Inc. Navajo Tribe "AG" No. 1, located 1460 feet from the south line and 1850 feet from the east line of Section 16, Township 41 North, Range 25 East, Apache County, Arizona. This well produces from the Devonian-McCracken Formation through casing perforations at 6370 to 6384 feet. There are no other producing wells in the field. Dry holes in the immediate vicinity of the Navajo Tribe "AG" No. 1 include the Great Western Navajo Tribal No. 1, approximately one mile southwest and the TEXACO Inc. Navajo Tribe "AG" No. 2, approximately one-half mile south. Present production from the field is approximately 70 barrels of oil and 70 barrels of water per day. Exhibit "A" shows the location and ownership of all wells and lands in the area.

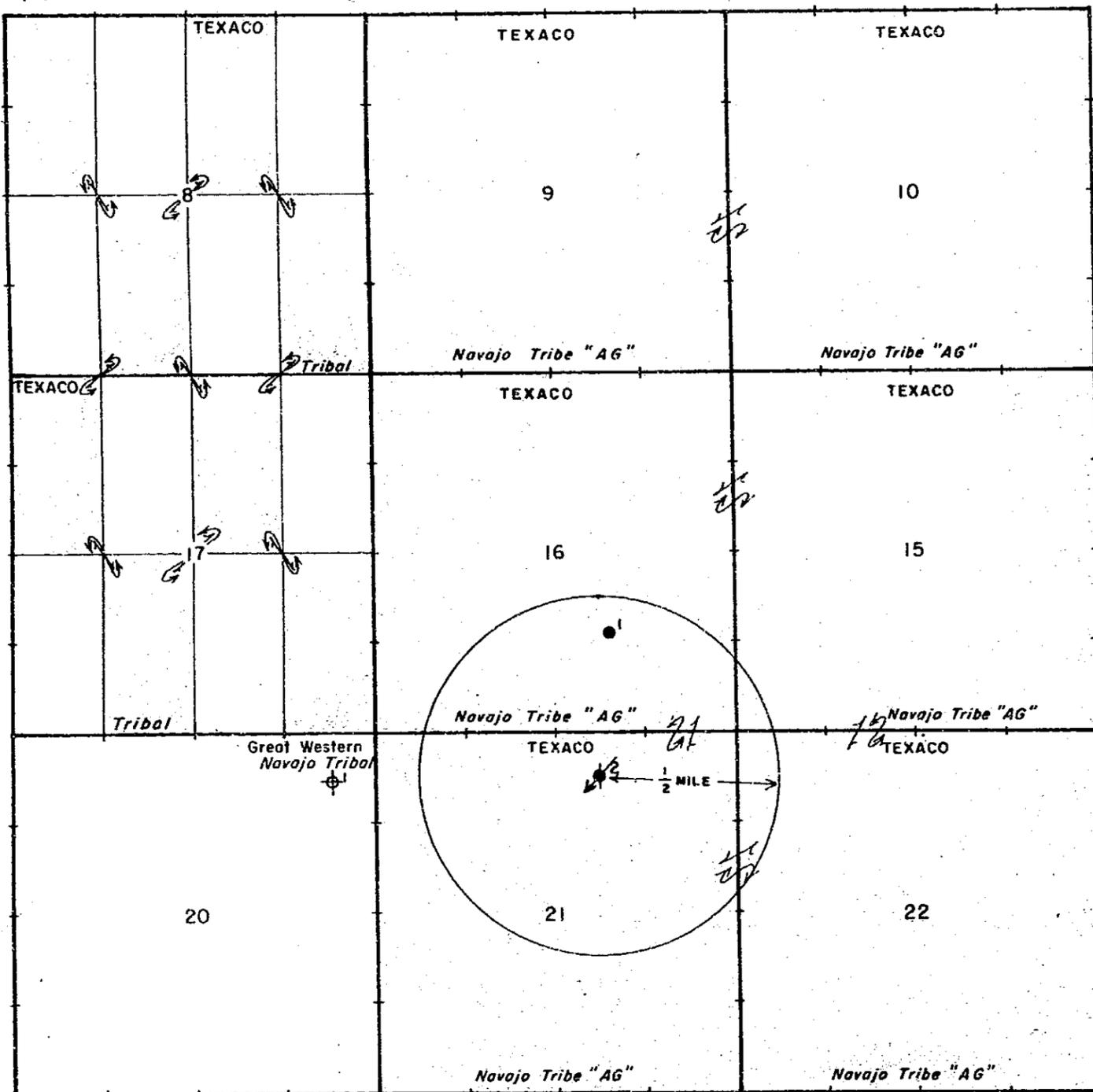
The purpose of this underground disposal is twofold, i.e., (1) to prevent possible pollution of surface water, and (2) to prevent possible damage to the land surface. It has been concluded that disposal of the produced water back into the zone from which it originated is the most practical and feasible means available.

The Navajo Tribe "AG" No. 2 was completed as a dry hole on March 20, 1964. As a result of tests while drilling and subsequent

tests after casing was set it was found that the Devonian-McCracken Formation was water productive in the Navajo "AG" No. 2. Since the Devonian-McCracken in Navajo "AG" No. 2 well is porous and permeable, and is water bearing it is an excellent zone for the disposal of produced water. Exhibit "B" is a structural cross section of Navajo "AG" Well No. 1 and No. 2 showing the correlation between the productive zone in the Navajo "AG" No. 1 and the injection zones in the Navajo "AG" No. 2. The Navajo "AG" No. 2 encountered the productive zone of Navajo "AG" No. 1 at 6464 feet (1596 feet subsea). This is 96 feet lower than the top of the oil productive zone 6370 to 6384 feet in the Navajo "AG" No. 1. This zone 6464-6475 feet, tested water in the Navajo "AG" No. 2. An upper zone in the Devonian-McCracken from 5403 to 6417 was found to be water productive in the Navajo "AG" No. 2. This upper zone also appears in the Navajo "AG" No. 1 at 6309-6318 but is water bearing based on a lack of shows while drilling and electric log analysis.

Therefore, TEXACO Inc. respectfully requests an order from this Commission authorizing TEXACO Inc. to dispose of water produced with oil in Walker Creek Field into the Devonian-McCracken Formation in its Navajo Tribe "AG" No. 2, Walker Creek Field, Apache County, Arizona. It is my opinion that granting of this application will be in the interest of conservation of oil and gas in the State of Arizona.

R. 25 E.



T. 41 N.

R. 25 E.

EXHIBIT - 'A'

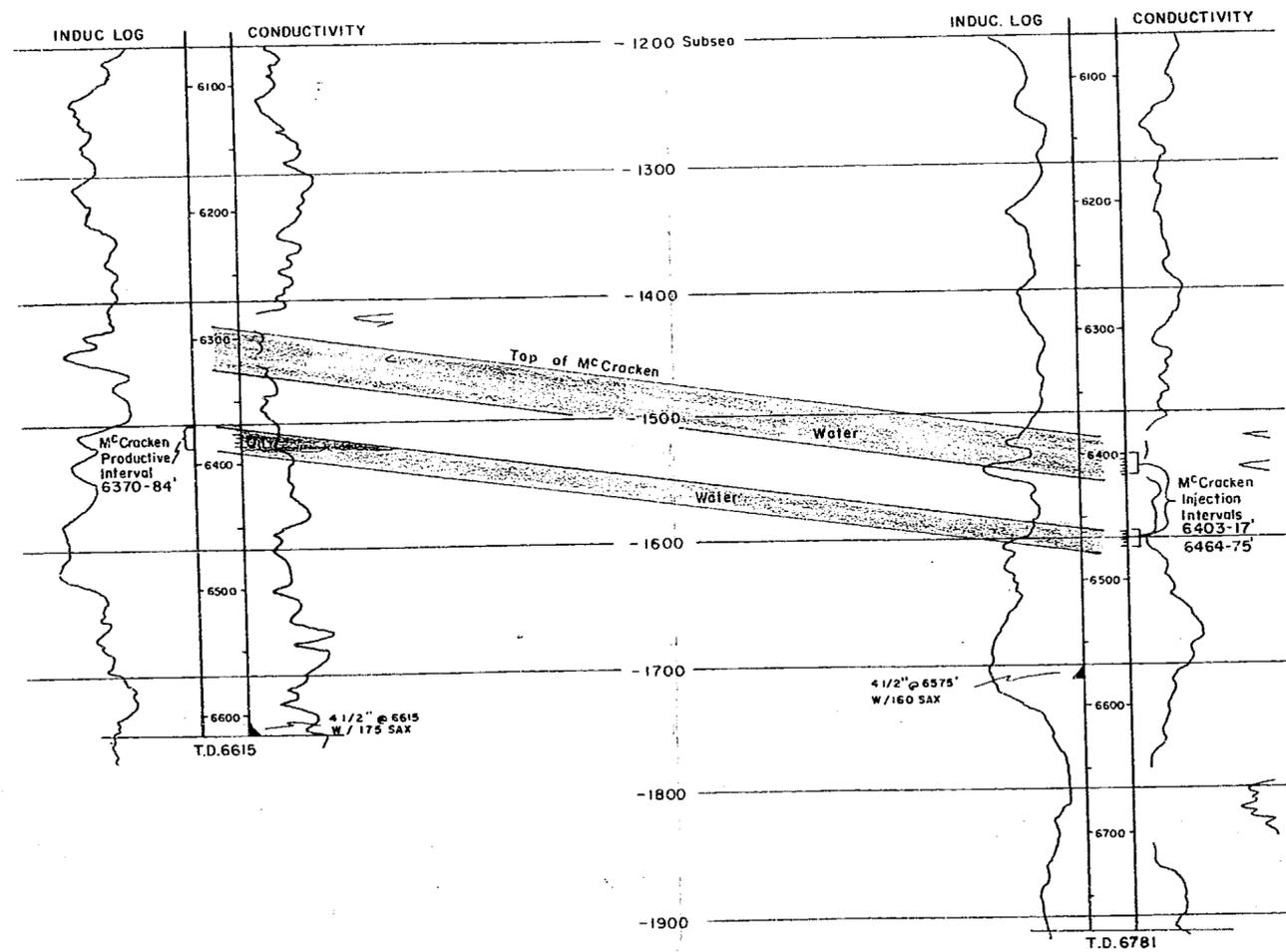
- McCracken Producing Well
- ⊙ McCracken Dry Hole
- ⚡ Proposed McCracken Injection Well
- ⊕ Dry Hole

TEXACO
PRODUCING DEPT. DENVER, COLO. PETROLEUM ENGINEERING DEPT.
<b>WALKER CREEK FIELD</b>
APACHE COUNTY, ARIZONA
<b>OWNERSHIP MAP</b>
SCALE 1" = 2000'
DATE 10-14-64

266

TEXACO INC.  
 NAVAJO "AG" NO. 1  
 SE-NW-SE SEC. 16 T-41-N. R-25-E.  
 COMPLETED 5-5-63  
 I.P. 182 BOPD  
 K.B. Elev. 4870'

TEXACO INC.  
 NAVAJO "AG" NO. 2  
 C-NW-NE SEC. 21 T-41-N. R-25-E.  
 COMPLETED 3-20-64  
 I.P. WATER  
 K.B. Elev. 4868'



OIL   
 WATER 

**EXHIBIT-'B'**  
 TEXACO INC.  
 PRODUCING DEPT. DENVER, COLO.  
 PETROLEUM ENGINEERING DEPT.  
**WALKER CREEK FIELD**  
 APACHE COUNTY, ARIZONA  
**STRUCTURAL CROSS SECTION**  
 VERTICAL SCALE 1"=100'  
 HORIZONTAL SCALE 1"=3000'  
 DATE 10-14-64

266

Inc. 21 Navejo-Ag  
 21-11N-25E

BEFORE THE OIL & GAS CONSERVATION COMMISSION  
STATE OF ARIZONA

TO CONSIDER THE APPLICATION OF  
TEXACO, INC., TO DISPOSE OF  
SALT WATER BY INJECTION INTO  
THE DEVONIAN-McCRACKEN FORMATION  
IN THE NAVAJO TRIBE AG#2 WELL,  
LOCATED IN SECTION 16, TWP 41N,  
R25E, APACHE COUNTY, ARIZONA

Case No. 19

Phoenix, Arizona  
October 21, 1964  
2:00 o'clock p.m.

REPORTER'S TRANSCRIPT  
OF  
PROCEEDINGS

RYAN, POWERS & RYAN  
COURT REPORTERS  
412 SECURITY BUILDING  
PHOENIX, ARIZONA 85004  
TELEPHONE ALPINE 8-6064

Phoenix, Arizona  
October 21, 1964  
2:00 o'clock p. m.

A hearing in the above-entitled matter was held before the Oil & Gas Conservation Commission of the State of Arizona in the Highway Auditorium, Phoenix, Arizona, on Wednesday, October 21, 1964, beginning at 2:00 o'clock p. m.:

BEFORE: MR. LYNN LOCKHART, Chairman  
MR. R. KEITH WALDEN, Vice Chairman  
MR. LUCIAN B. OWENS, Member

MR. JOHN BANNISTER, Executive Secretary

MR. J. R. SCURLOCK, Geologist

APPEARANCES:

MR. SID ROSEN, Assistant Attorney General  
JENNINGS, STROUSS, SALMON & TRASK, by  
Mr. Charles L. Strouss, Jr., for the Applicant

ALSO PRESENT:

For Texaco, Incorporated

Mr. A. G. Walsh  
Mr. Walter E. Will

Mr. Bill King for the Arizona Republic

1 CHAIRMAN LOCKHART: We will call the meeting  
2 to order.

3 This case is To Consider the Application  
4 of Texaco, Inc., to Dispose of Sale Water by  
5 Injection into the Devonian-McCracken Formation  
6 in the Navajo Tribe AG#2 Well, Located in Section  
7 16, TWP 41North, Range 25 East, Apache County,  
8 Arizona.

9  
10 (Whereupon, the Reporter was duly sworn.)  
11

12 MR. STROUSS: For the record, my name is  
13 Charles L. Strouss, Jr. I am attorney of Phoenix,  
14 representing Texaco, Inc., in this matter.  
15

16 A. G. WALSH,  
17 having been previously duly sworn, was called as  
18 a witness on behalf of the Applicant, and testified  
19 as follows:  
20

21 DIRECT EXAMINATION

22 BY MR. STROUSS:

23 Q Would you state your name, please, for  
24 the record.

25 A A. G. Walsh.

26 Q By whom are you employed and in what

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capacity?

A I am employed by Texaco, Inc., as District Petroleum Engineer in Farmington, New Mexico.

Q Are you familiar with the application of Texaco, Inc., that has been referred to here this afternoon by the Chairman?

A Yes, sir, it was made under my supervision.

Q Have you prepared a statement relative to the application of Texaco, Inc., today?

A Yes, sir, I have a statement with a couple of exhibits attached to it. I would like to pass it around.

Q You are referring to "A Statement Before The Arizona Oil and Gas Conservation Commission, Case No. 19, October 21, 1964, Phoenix, Arizona"; is that correct?

A That is correct.

MR. STROUSS: May Mr. Walsh read this statement to the Commission, please?

CHAIRMAN LOCKHART: Yes.

THE WITNESS: "On September 15, 1964, TEXACO Inc. filed an application with the Arizona Oil and Gas Conservation Commission for authorization to inject water produced with oil in the Walker Creek

1 Field into the Devonian-McCracken Formation in its  
2 Navajo Tribe "AG" No. 2, located 660 feet from the  
3 north line and 1980 feet from the east line of  
4 Section 21, Township 41 North, Range 25 East,  
5 Apache County, Arizona.

6 "The Walker Creek Field was discovered on  
7 May 5, 1963, with the completion of the TEXACO  
8 Inc. Navajo Tribe "AG" No. 1, located 1460 feet  
9 from the south line and 1850 feet from the east  
10 line of Section 16, Township 41 North, Range 25  
11 East, Apache County, Arizona. This well produces  
12 from the Devonian-McCracken Formation through  
13 casing perforations at 6370 to 6384 feet. There  
14 are no other producing wells in the field. Dry  
15 holes in the immediate vicinity of the Navajo  
16 Tribe "AG" No. 1 include the Great Western  
17 Navajo Tribal No. 1, approximately one mile  
18 southwest and the TEXACO Inc. Navajo Tribe "AG"  
19 No. 2 approximately one-half mile south. Present  
20 production from the field is approximately 70  
21 barrels of oil and 70 barrels of water per day.  
22 Exhibit "A" shows the location and ownership of  
23 all wells and lands in the area."

24 MR. STROUSS: If you would like to take  
25 a moment and look at that exhibit, you can then  
26 see what he is referring to.

1 THE WITNESS: (Continuing) "The purpose  
2 of this underground disposal is twofold, i. e.,  
3 (1) to prevent possible pollution of surface  
4 water, and (2) to prevent possible damage to the  
5 land surface. It has been concluded that disposal  
6 of the produced water back into the zone from  
7 which it originated is the most practical and  
8 feasible means available.

9 "The Navajo Tribe "AG" No. 2 was  
10 completed as a dry hole on March 20, 1964. As  
11 a result of tests while drilling and subsequent  
12 tests after casing was set it was found that the  
13 Devonian-McCracken Formation was water productive  
14 in the Navajo "AG" No. 2. Since the Devonian-  
15 McCracken in Navajo "AG" No. 2 well is porous  
16 and permeable, and is water-bearing it is an  
17 excellent zone for the disposal of produced water.  
18 Exhibit "B" is a structural cross section of  
19 Navajo "AG" Well No. 1 and No. 2 showing the  
20 correlation between the productive zone in the  
21 Navajo "AG" No. 1 and the injection zones in the  
22 Navajo "AG" No. 2. The Navajo "AG" No. 2 encoun-  
23 tered the productive zone of Navajo "AG" No. 1 at  
24 6464 feet (1596 feet subsea). This is 96 feet  
25 lower than the top of the oil productive zone  
26 6370 to 6384 feet in the Navajo "AG" No. 1. This

1 zone 6464-6475 feet, tested water in the Navajo  
2 "AG" No. 2. An upper zone in the Devonian-  
3 McCracken from 6403 to 6417 was found to be water  
4 productive in the Navajo "AG" no. 2. This upper  
5 zone also appears in the Navajo "AG" No. 1 at  
6 6309-6318 but is water bearing based on a lack  
7 of shows while drilling and electric log analysis.

8 "Therefore, TEXACO Inc. respectfully  
9 requests an order from this Commission authorizing  
10 TEXACO Inc. to dispose of water produced with oil  
11 in Walker Creek Field into the Devonian-McCracken  
12 Formation in its Navajo Tribe "AG" No. 2, Walker  
13 Creek Field, Apache County, Arizona. It is my  
14 opinion that granting of this application will  
15 be in the interest of conservation of oil and  
16 gas in the State of Arizona."

17 CHAIRMAN LOCKHART: Does anybody have any  
18 questions?

19 MR. STROUSS: Mr. Chairman, I also have  
20 a letter which I would like to put in the record  
21 from the Department of the Interior, Geological  
22 Survey, Roswell, New Mexico, which indicates  
23 their approval.

24 We would like, Mr. Bannister, if we may,  
25 to substitute a copy of that, if we could keep  
26 the original for our files.

1 MR. BANNISTER: That is fine.

2 MR. STROUSS: I wanted to show you the  
3 original.

4 CHAIRMAN LOCKHART: Do you have any other  
5 evidence?

6 MR. STROUSS: I do have one other document  
7 here that I would like to have Mr. Walsh identify.

8 Q I hand you what I believe is labeled  
9 actually as a laboratory report addressed to a  
10 Mr. K. W. Buckles, Farmington, New Mexico,  
11 indicating report and type of sample being water.

12 Would you tell the Commission what that  
13 report shows, please.

14 A This is an analysis of water that is  
15 produced with the oil in our Navajo Tribe AG No. 1.  
16 This analysis was performed in their Tulsa  
17 laboratory. Mr. K. W. Buckles, to whom this  
18 analysis is addressed, is the District Supervisor  
19 in Farmington.

20 We will show this to the Commission as  
21 an Exhibit. It gives an analysis of the water  
22 that is produced from AG No. 1. The significant  
23 components are chloride content, 29,214 parts per  
24 million; sodium content, 11,623 parts per million.  
25 So from that you can tell that this is a salty  
26 water.

1 MR. BANNISTER: Q Now, the area in Well  
2 No. 2, is that essentially the same as this?

3 A Yes, the No. 2 well is approximately  
4 2100 feet from the No 1. If you will look at  
5 your structural cross-section, you can see that.

6 Q Has a comparative analysis been made  
7 between the water?

8 A I don't have a detailed analysis with  
9 me. We took chloride content on the water  
10 produced from the No. 2 when we were testing it  
11 and found that the chloride content was essentially  
12 the same as that produced from the No. 1.

13 Q The chloride content?

14 A Yes, sir, approximately 29,000 parts  
15 per million.

16 MR. WALDEN: How much?

17 THE WITNESS: Approximately 29,000 parts  
18 per million.

19 MR. BANNISTER: Q In your opinion, this  
20 could not be fresh water that would have a valuable  
21 consumption?

22 A No, sir, it is not fresh water.

23 Q Is that true for both wells?

24 A Yes, sir, that is true for both wells.

25 Q This Devonian-McCracken, is that  
26 sufficiently far from any other fresh water that

1 you might have found there?

2 A The maximum depth at which we found  
3 fresh water in this area was approximately 1900  
4 feet. As I recall, that was the basis of the  
5 shaded formation.

6 As you know, we are at approximately  
7 6400 feet, so the zones are widely separated  
8 by approximately 4000 or 4500 feet of formation,  
9 plus the fact that we have casings cemented in  
10 this well.

11 Q In which well?

12 A In both wells, in the AG No. 1 and the  
13 AG No. 2.

14 Q In the No. 2 well, then, your casing is  
15 perforated now?

16 A Yes.

17 Q At the Devonian-McCracken?

18 A At the zones indicated on the cross-  
19 section.

20 Q What about below there; is your casing  
21 below, say, 6500 down there, is that sealed off?

22 A Yes, sir, we are cemented from the  
23 casing shoe, which is at 6575, we cemented with  
24 160 sacks of cement.

25 Q What is your fresh water zone above; that  
26 has not been perforated or anything?

1           A No, the fresh water in the No. 2 should  
2 be essentially at the same level that it is in  
3 No. 1, approximately 1900 feet.

4           As you may have noted in our application,  
5 we didn't run an electrical log above 3900 feet  
6 in the No. 2 well.

7           Q Now, up here in your fresh water is  
8 your casing sufficiently sealed so that there is  
9 no intermingling?

10          A Yes, sir.

11          MR. BANNISTER: Do you have any questions?

12          MR. SPURLOCK: No, I have no questions.

13          MR. BANNISTER: I have one other question  
14 I would like to note.

15          Q Roughly, what area do you think would  
16 be faced with this same problem; for example,  
17 in your McCracken formation, do you have any idea  
18 what area this does cover?

19          A It would be very difficult for me to give  
20 you an exact area. There have been a number of  
21 wildcat wells drilled in northeast Arizona in  
22 the past year, the majority of which have gone  
23 through the McCracken sand and most of them have  
24 attempted to test the McCracken.

25          Q Now, what area does your Walker Creek  
26 Field cover now?

1 A Well, at the present time?

2 Q Surfacewise.

3 A It includes 80 acres surrounding the  
4 No. 1 well. The No. 2 is a dry hole. The  
5 Great Western Navajo Tribe No. 1 was also a dry  
6 hole.

7 MR. SPURLOCK: Q Which 80 acres? The  
8 east half of the southeast or the west half of  
9 the southeast?

10 A I would imagine that it is the one-half  
11 of the southwest half. I don't have a copy of the  
12 plat with me.

13 MR. BANNISTER: Q Do you have any reason  
14 to believe that by injecting the salt water into  
15 the Devonian-McCracken of the No. 2 well, it  
16 would not in any way endanger any fresh water  
17 sources located anywhere near there?

18 A No, sir, it will not. In my opinion,  
19 this is the most practical method of disposing  
20 of water, returning it to the zone from which it  
21 originated.

22 Q Should you develop other wells in that  
23 area, would you want to inject still into the  
24 McCracken Formation should you run into the same  
25 problem?

26 A Yes, sir, we would, probably. I would

1 imagine we would, unless we would find a zone  
2 even more suitable. However, from the drilling  
3 we have done in the area, this seems to be the  
4 most suitable zone.

5 Q Essentially you are taking water that  
6 is in the formation and putting it back in it  
7 again?

8 A Right, yes, sir.

9 Q There is no question of reservoir  
10 capacity or anything like that in this case?

11 A No.

12 CHAIRMAN LOCKHART: Q Do you have to put  
13 it back in under pressure?

14 A We anticipate this will be a vacuum  
15 system based on some tests we ran.

16 Q There is no offset acreage but what you  
17 control around there?

18 A That is correct, we have the lease on  
19 everything within a half mile.

20 CHAIRMAN LOCKHART: The Chairman will  
21 entertain a motion that this be granted.

22 MR. OWENS: I move it be granted.

23 MR. WALDEN: I second the motion.

24 CHAIRMAN LOCKHART: Moved and seconded.

25 All in favor signify by saying "aye."

26 So carried.

1 MR. BANNISTER: We will give you an order  
2 as soon as we get it drawn up, then, to this  
3 effect.

4 MR. STROUSS: Thank you very much.

5 CHAIRMAN LOCKHART: The meeting will stand  
6 adjourned sine die.

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I, OSCAR TAYLOR, do hereby certify that the foregoing hearing was taken before me, a duly qualified Court Reporter in the State of Arizona; that the same was transcribed into writing under my direction; that the foregoing 14 pages are a full, true, and accurate transcript of the shorthand record by me made thereof, all done to the best of my skill and ability.

DATED at Phoenix, Arizona, this \_\_\_\_\_ day of October, 1964.

\_\_\_\_\_  
Oscar Taylor  
Court Reporter

March 14, 1968

Texaco, Inc.  
P.O. Box 810  
Farmington, N.M. 87401

Re: Texaco AG #2 Navajo  
Salt Water Injection Project  
Case 19, Order 17

Gentlemen:

It has just been noted that this Commission has not received any reports concerning the salt water injected into your Navajo AG#2 well. Enclosed is a supply of the report forms to be used in this reporting.

Will you furnish us with figures showing the past injection.

Your cooperation is very much appreciated.

Very truly yours,

John Bannister  
Executive Secretary  
mr  
enc

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December 29, 1965

Texaco, Inc.  
P.O. Box 810  
Farmington, New Mexico 87401

Attention: Mr. C.P. Farmer, District Superintendent

Re: Texaco AG #2 well  
NW/4NE/4 21-41N-25E, Apache County, Arizona  
Our File 266

Gentlemen:

In reviewing our files we notice that this Commission has not received copies of the induction-electrical and Gamma Ray Sonic logs run on this well.

This letter is to request that copies of these logs be submitted in accordance with the Rules and Regulations at your earliest convenience.

Your cooperation is very much appreciated.

Very truly yours,

John Bannister  
Executive Secretary  
BT

November 15, 1965

Texaco Inc.  
P.O. Box 2100  
Denver, Colorado 80201

Attention: Mr. G.L. Barton

Gentlemen:

This will acknowledge receipt of your letter of November 10, 1965 concerning Traveler's Indemnity Company bond in the amount of \$10,000.

Please be advised that this statewide bond has had six wells drilled under it. Of the six wells drilled, three have been properly plugged and abandoned.

The Texaco #1 Navajo well, located NW/4SW/4 36-41N-30E, Apache County (Permit 113), is an old well which was originally producing from the McCracken formation. If this well has been plugged and abandoned, the necessary reports, i.e. Application to Plug and Abandon, Plugging Record, and a new Well Completion Report, must be submitted. This well of course must remain under bond until such time as it is properly abandoned.

The Texaco #1 Navajo AG well, located NW/4SE/4 16-41N-25E, Apache County (Permit 226), is a producing well and of course must remain under bond until such time as it is properly plugged and abandoned.

The Texaco #2 Navajo AG well, located NW/4NE/4 21-41N-25E, Apache County (Permit 266), is an injection well to dispose of salt water in the Devonian-McCracken formations. This well too must remain under bond until such time as it has been properly plugged and abandoned.

Consequently this Commission is unable to release the above bond until these three wells have been placed under a new bond.

May I remind you that our single well bond must now be in the

204

Texaco Inc  
Attention: Mr. G.L. Barton  
November 15, 1965  
Page 2

amount of \$5,000. At such time as these three wells have been properly placed under a new bond the above bond may then be released.

If we can help you in any way, please advise.

Very truly yours,

John Bannister  
Executive Secretary  
mr

Texaco, Inc.  
P.O. Box 810  
Farmington, New Mexico 87401

Attention: Mr. C.P. Farmer, District Superintendent

Re: Texaco Navajo AG #2 well  
Our file 266

Gentlemen:

We are in receipt of your letter of December 17, 1964 concerning injection of salt water in the Devonian McCracken formation of the captioned well.

Please be advised that it will not be necessary to make a monthly report of the volume of water handled in this project at this time.

However, we would appreciate your advising us from time to time as to any phase of this operation which you feel this Commission should be aware.

We very much appreciate your cooperation.

Yours very truly,

John Bannister  
Executive Secretary  
nr

TEXACO  
INC.

PETROLEUM PRODUCTS



P. O. Box 810  
Farmington, New Mexico  
87401

December 17, 1964

The Honorable Oil & Gas  
Conservation Commission  
State of Arizona  
1624 West Adams  
Phoenix, Arizona 85007

Attention: Mr. John Bannister

Gentlemen:

Pursuant to Order No. 17 of the Honorable Oil  
and Gas Conservation Commission the disposal of produced  
water into the Devonian McCracken Formation in the TEXACO  
Inc. Navajo Tribe "AG" No. 2 commenced at 3:00 P.M. on  
December 14.

Please advise if the Commission desires a  
monthly report on the volume of water handled and, if so,  
the manner in which it should be reported.

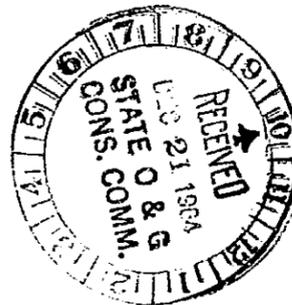
Very truly yours,

*C. P. Farmer*

C. P. Farmer  
District Superintendent

AGW-LC

266



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August 27, 1964

Mr. C. P. Farmer  
District Superintendent  
Texaco, Inc.  
P.O. Box 810  
Farmington, New Mexico 87401

Re: Your letter of April 13, 1964

File #266

Dear Mr. Farmer:

In the above referenced letter you indicated that you were investigating the possibility of disposing of produced water from your Texaco "AG" No. 1 well by injection into the Texaco "AG" No. 2, well.

Inasmuch as we are desirous of completing the file on the No. 2 well we would appreciate any available information that you may give us concerning your proposed action. In the event that you are still experimenting with this project would you please inform us of your progress? For your convenience I am enclosing an Application to Abandon and Plug along with a Plugging Record if and when you decide to plug this well.

If I may be of further service to you, will you please advise.

Very truly yours,

Bill Cooper  
Records Section

cc/File  
Enclosure

**TEXACO**  
**INC.**

PETROLEUM PRODUCTS



P. O. Box 810  
Farmington, New Mexico  
87401

April 13, 1964

*Mary*  
↓

The Oil & Gas Conservation Commission  
State of Arizona  
1624 West Adams  
Phoenix 7, Arizona

Gentlemen:

TEXACO Inc. is currently investigating the possibility of disposing of produced water from its Navajo Tribal "AG" Well No. 1, Section 16, T-41-N, R-25-E, Apache County, Arizona, by injection into the Navajo Tribal "AG" Well No. 2, Section 21, T-41-N, R-25-E. The Navajo Tribal "AG" No. 2 was found to be barren of oil and gas production and is presently shut-in. It is possible that the producing interval in the No. 1 well will also be open in the No. 2 well.

It would be appreciated if copies of Form P-16, "Application to Dispose of Salt Water by Injection into a Porous Formation" could be furnished to this office for our possible use. If the injection of salt water into a producing formation requires additional forms, we would appreciate having these also.

We wish to thank you in advance for your cooperation in this matter.

Very truly yours,

C. P. Farmer  
District Superintendent

JRW-LC

*John - Do you want anything else*

January 31, 1964

Mr. W. D. Burton, Field Foreman  
Texaco, Inc.  
P. O. Box 810  
Farmington, New Mexico

Re: Texaco Inc. #2 "AG" Navajo Tribe  
Section 21 - T41N - R25E, Apache County, Arizona

Dear Mr. Burton:

Attached find your "Application for Permit to Drill"  
approved.

You'll recall we like for you to send us completion  
forms when you bring in your well, deposit the sample  
cuttings at the Four Corners Sample Cut on West Broad-  
way in Farmington, and send us two copies of all logs  
run on the well.

Also we'd like to have any additional information like  
geological sample descriptions, any core analysis run,  
drilling time, drill stem tests, etc. which you can  
conveniently supply us with.

Hoping this will be a 2000 BOPDF or better, I am,

Yours truly,

John K. Petty  
Acting Executive Secretary

JKP:mkc

Cc: Andy McConnell, District Geologist  
Texaco, Inc.  
P. O. Box 810  
Farmington, New Mexico

January 28, 1964

Mr. R. Keith Walden, Chairman  
Oil and Gas Conservation Commission  
P. O. Box 1271  
Tucson, Arizona

Re: Texaco Inc. #2, Navajo Tribe "AG", Walker  
Creek, Devonian, Apache County

Dear Mr. Walden:

This is in the Four Corners Area located one-half  
mile south of their discovery well drilled last  
spring. Great Western and Moncrief drilled a mile  
southwest of the discovery and found nothing.

All is in order for permit approval on this well.

Sincerely,

John K. Petty  
Acting Executive Secretary

JKP:mke  
Encl.

PLEASE SIGN VOUCHER ON INDICATED LINE  
VERIFYING RECEIPT OF CHECK AND RETURN  
VOUCHER TO US IN THE ATTACHED SELF-  
ADDRESSED ENVELOPE. THANK YOU.

**TEXACO Inc.**  
P. O. Box 810  
Farmington, New Mexico

*med 1/28/64*