



AMEND SWD

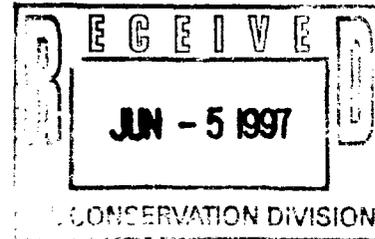
N/R

VERBAL  
6-13-97

June 3, 1997

NMOCD  
2040 South Pacheco  
Santa Fe, New Mexico 87505

Attn: Mr. Ben Stone



**RE: Application for Salt Water Disposal Well**

Remuda Basin 19 Federal #2  
Bell Canyon Formation  
Unit letter B, Section 19, T-23-S, R-30-E  
Eddy County, New Mexico

Dear Mr. Stone:

Texaco Exploration and Production Inc. Respectfully requests administrative approval for the attached C-108 application on its Remuda Basin 19 Federal SWD well for the purpose of disposing of produced fluids in the non-commercial Bell Canyon interval. This work will allow Texaco E&P Inc. to eliminate the current disposal costs on the subject lease. The conversion of the proposed well will lower the current economic limit on the lease and allow Texaco E&P Inc. to recover additional oil and gas reserves that would otherwise be left in place.

An Administrative Order SWD-626 had previously been approved on the Remuda Basin State SWD on April 30, 1997. This well is located at Unit Letter F, Section 19, T-23-S, R-30-E, and is approximately 1400' to the southwest of the Remuda Basin 19 Federal #2. Texaco E&P Inc. respectfully requests that this application be approved administratively at the earliest possible time. This is requested so that the necessary operations can be advanced in a prudent manner. Additional information new to the previous order is included with this letter. If you have any questions concerning the application, please contact me at (505) 397-0431.

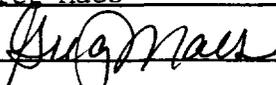
Sincerely,

Greg Maes  
Engineer Assistant  
Texaco Exploration and Production, Inc.

VGM/  
Attachments  
File

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance XX Disposal Storage  
Application qualifies for administrative approval? Yes No
- II. OPERATOR: Texaco Exploration and Production Inc.  
ADDRESS: 205 E. Bender Hobbs, New Mexico 88240  
CONTACT PARTY: Greg Maes PHONE: (505) 397-0431
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project: Yes X No  
If yes, give the Division order number authorizing the project \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/1 or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.)
- \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Greg Maes TITLE: Engineer Assistant  
SIGNATURE:  DATE: June 3, 1997

- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal. Administrative Order SWD-626

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088 within 15 days.

**NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.**

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**NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.**

6/3/97

**ADDITIONAL INFORMATION TO ADMINISTRATIVE ORDER SWD-626:**

**NEW MEXICO OIL CONSERVATION DIVISION - Form C-108**

**III. SALT WATER DISPOSAL WELL DATA**

**Remuda Basin 19 Federal #2 SWD : Bell Canyon Interval**

Unit letter B, 660' FNL & 660' FEL, Section 19, T-23-S, R-30-E  
Eddy County, New Mexico

The above mentioned well was originally drilled as a producer and will be converted to a salt water disposal well.

**V. SUBJECT AREA MAPS AND AREA OF REVIEW**

A map of the subject area, Remuda Basin 19 Federal lease, including all the wells within a 2 mile radius is attached. Also attached is a map showing the subject well's area of review (or half mile radius circle.)

**VII. PROPOSED OPERATION**

The conversion of the Remuda Basin 19 Federal #2 wellbore will be in the Bell Canyon interval with cast iron bridge plugs to be set at 6525' and 4025'. The packer will be set at 3345'. The tubing will be Rice Duoline injection tubing. The proposed maximum salt water disposal rate is expected to be 5000 barrels per day. The initial disposal rate is expected to be 1500 barrels of water per day. The maximum injection pressure will not exceed 680 psig (0.2 psi/ft. OCD allowable rate) until a step rate test establishes a higher limit.

**IX. PROPOSED STIMULATION PROGRAM**

The subject well will be stimulated using 8000 gallons of 15% NEFE HCL acid and 600 ball sealers.

**STATEMENT OF SURFACE OWNER AND OFFSET OPERATOR**

SURFACE OWNER: Hart Greenwood  
P.O. box 104  
Carlsbad, New Mexico 88220

OFFSET OPERATORS:

Santa Fe Energy Operating Partners, L.P.  
550 W. Texas, Suite 1330  
Midland, Texas 79701  
Attn: Meg Muhlinghause

Louis Dreyfus Natural Gas Corp.  
14000 Quail Spring Parkway  
Suite 600  
Oklahoma City, Oklahoma 73134-2600  
Attn: Russell R. Waters

Strata Production Company  
Roswell Petroleum Bldg., Suite 700  
200 W. First St.  
Roswell, New Mexico 88201

Apache Corporation  
2000 Post Oak Blvd., Suite 100  
Houston, Texas 77056-4400  
Attn: Gary Carson

Yates Petroleum Corporation  
105 South 4th Street  
Artesia, New Mexico 88210  
Attn: Kathy H. Porter

Murchison Oil and Gas, Inc.  
1445 Ross Avenue, Suite 5300  
Dallas, Texas 75202-2883  
Attn: Michael Daugherty

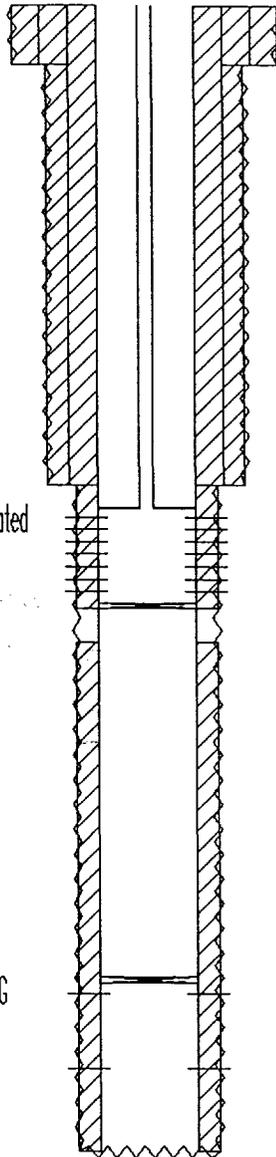
Proposed Water Disposal Well

TEXACO E&P INC.  
 REMUDA BASIN 19 FED No. 2 SWD  
 API# 30 015 28400

0.0 - 400.0' CEMENT 400 sx, cement circulated  
 0.0 - 400.0' 11 3/4" OD 42.00#/ft SURF CSG  
 0.0 - 400.0' 14.75" OD HOLE

0.0 - 3205.0' 8 5/8" OD 32.00#/ft INT CSG  
 0.0 - 3205.0' CEMENT 900 sx, cement circulated  
 400.0 - 3205.0' 11" OD HOLE

0.0 - 7650.0' 5 1/2" OD 17.00#/ft PROD CSG  
 0.0 - 4026.0' CEMENT 600 sx, circulated  
 4026.0 - 4026.0' DVTOOL  
 4250.0 - 7650.0' CEMENT 1000 sx, TOC calc 50%  
 3205.0 - 7650.0' 7.875" OD HOLE



0.0 - 3350.0' 2.375" OD TBG  
 3350.0 - 3360.0' RETRV. PACKER  
 3402.0 - 3912.0' PERFS Ramsey Sand  
 3985.0 - 4025.0' CIBP cap w/ 35' cement

6485.0 - 6525.0' CIBP cap w/ 35' cement  
 6558.0 - 6590.0' PERFS M Brushy Canyon  
 7056.0 - 7098.0' PERFS L Brushy Canyon

510 FNL & 1580 FEL  
 SEC 19, TWIN 23S, RANGE 30E  
 ELEVATION: 3078' GR  
 COMPLETION DATE: 5-09-96  
 INJECTION INTERVAL: 3,402' - 3,912' (Ramsey Sand)  
 COMPLETION INTERVAL: 7,056' - 7,098' (Brushy Canyon)

# INJECTION WELL DATA SHEET

OPERATOR Texaco Exploration & Production Inc. LEASE Remuda Basin 19 Federal  
WELL NO. 2 660 FNL & 660 FEL SECTION 19 TOWNSHIP T-23-S RANGE R-30-E  
FOOTAGE LOCATION

## Schematic

### Well Construction Data

#### Surface Casing

Size 11.75 " Cemented with 400 sx.

TOC surface feet determined by \_\_\_\_\_

Hole Size 14.75"

#### Intermediate Casing

Size 8.625 " Cemented with 900 sx.

TOC surface feet determined by \_\_\_\_\_

Hole Size 11"

#### Long String

Size 5.5 " Cemented with 1600 sx.

TOC 4250' feet determined by \_\_\_\_\_

Hole Size 7.875"

Total Depth 3975'

#### Injection Interval

3402' feet to 3912' feet  
(perforated or open-hole; indicate which)

### INJECTION WELL DATA SHEET

Tubing Size 2.875" lined with Rice Duoline Plastic Coated set in a  
Baker AD-1 packer at 3345' feet  
(type of internal coating)

Other type of tubing / casing seal if applicable \_\_\_\_\_

Other Data

1. Is this a new well drilled for Injection? Yes XX No

If no, for what purpose was the well originally drilled? Production

2. Name of the Injection formation Bell Canyon

3. Name of Field or Pool (if applicable) \_\_\_\_\_

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used. 7056'-7098' Lower Brushy Canyon. CIBP @ 6525' w/35' cement; CIBP @ 4025' w/ 35' cement

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.

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

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

5. Lease Designation and Serial No.

NM-17056

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

8. Well Name and Number

REMUDA BASIN '19' FEDERAL

2

9. API Well No.

30-015-28400

10. Field and Pool, Exploratory Area

WILDCAT/ BRUSHY CANYON, BONE SPRING

11. County or Parish, State

EDDY, NM

1. Type of Well:

OIL WELL  GAS WELL  OTHER

2. Name of Operator

TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No.

P.O. Box 46510, Denver Colorado 80201-6510 (303)621-48

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

Unit Letter B : 510 Feet From The NORTH Line and 1780 Feet From The

EAST Line Section 19 Township 23-S Range 30-E

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

TYPE OF SUBMISSION

- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 OTHER: SPUD, SURF CSG, INT CSG.  
 Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 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,)\*.

- PETERSON RIG #2 SPUD 14.75 INCH HOLE @ 9:30 PM 04-04-96. DRILLED TO 400'. TD @ 5:00 AM 04-05-96.
- RAN 9 JOINTS OF 11 3/4 INCH, 42#, WC-40, STC CASING SET @ 400'. RAN 12 CENTRALIZERS.
- DOWELL CEMENTED W/ 400 SACKS CLASS C W/ 2 CACL2 (14.8 PPG, 1.32 CF/S). PLUG DOWN @ 9:30 AM 04-06-96. CIRC 85 SACKS.
- NU BOP & TESTED TO 1200#. TESTED CASING TO 1200# FOR 30 MINUTES FROM 9:00 PM TO 9:30 PM 04-06-96.
- WOC TIME 24 HOURS FROM 9:30 AM 04-06-96 TO 9:30 AM 04-07-96.
- DRILLING 11 INCH HOLE.
- DRILLED 11 INCH HOLE TO 3205'. TD @ 1421 HOURS ON 04-09-96.
- RAN 73 JOINTS OF 8 5/8 INCH, 32# K-55 AND WC-50 8 RD, LTC CASING SET @ 3209.17'. RAN 18 CENTRALIZERS.
- DOWELL CEMENTED W/ 800 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S). F/B 825 SACKS CLASS H NEAT 21 BBL SLURRY (15.6 PPG, 1.18 CF/S). PLUG DOWN @ 1:30 AM 04-10-96. CIRCULATED 212 SACKS.
- NU BOP AND TESTED TO 3000#. TESTED CASING TO 1200# FOR 30 MINUTES FROM 2:00 AM TO 2:30 AM 04-11-96.
- WOC TIME 24 HOURS FROM 1:30 AM 04-10-96 TO 1:30 PM 04-11-96.
- DRILLING 7 7/8 HOLE.

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

SIGNATURE C. P. Basham / SRT TITLE Eng. Assistant. DATE 4/16/96

TYPE OR PRINT NAME Sheilla D. Reed-High

(This space for Federal or State office use)

APPROVED

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

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

SUBMIT IN TRIPLICATE

OIL CONSERVATION DIV  
811 S. 1st ST., ARTESIA, NM 88210-2834  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MAR 25 1996

FORM APPROVED  
Budget Bureau No. 1004-0136  
Expires: December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. Type of Work DRILL  DEEPEN   
1b. Type of Well SINGLE ZONE  MULTIPLE ZONE   
OIL WELL  GAS WELL  OTHER

2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC. 22351

3. Address and Telephone No. P.O. Box 3109, Midland Texas 79702 688-4608

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
At Surface Unit Letter B : 510 Feet From The NORTH Line and 4788- Feet From The EAST Line 1580  
At proposed prod. zone WILDCAT FORTY-NINER RIDGE; DELAWARE, WEST  
Property Code (18768) SAME

14. Distance in Miles and Direction from Nearest Town or Post Office\* 10 MILES EASTERLY OF LOVING, NM

15. Distance From Proposed\* Location to Nearest Property or Lease Line, Ft. (also to nearest drlg. unit line, if any) 510'

18. Distance From Proposed Location\* to Nearest Well, Drilling, Completed or Applied For, On This Lease, Ft. 1131'

21. Elevations (Show whether DF, RT, GR, etc.) 575 GR-3078

5. Lease Designation and Serial No. NM-17056

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number REMUDA BASIN '19' FEDERAL

9. API Well No. 2 18768

10. Field and Pool, Exploratory Area 30-015-28902 96526

11. SEC., T., R., M., or BLK. and Survey or Area WILDCAT FORTY-NINER, DELAWARE, WEST

Sec. 19, Township 23-S, Range 30-E

12. County or Parish EDDY 13. State NM

17. No. of Acres Assigned To This Well 40

20. Rotary or Cable Tools ROTARY

22. Approx. Date Work Will Start\* 2/20/96

23. PROPOSED CASING AND CEMENT PROGRAM R-111-P Potash				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14 3/4	WC50, 11 3/4	42#	400'	400 SACKS - CIRCULATE
11	WC50, 8 5/8	24 & 32#	3200'	800 SACKS - CIRCULATE
7 7/8	WC50/75, 5 1/2	15.5 & 17#	7500'	1600 SACKS - CIRCULATE (TIE BACK)

CEMENTING PROGRAM:  
SURFACE CASING - 400 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.3 GW/S).  
INTERMEDIATE CASING - 800 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S).  
PRODUCTION CASING - 1ST STG- 700 SACKS 50/50 POZ CLASS H W/ 2% GEL, 5% SALT, 1/4# FLOCELE (14.2 PPG, 1.35 CF/S, 6.3 GW/S). DV TOOL @ 4700' - 2ND STG- 800 SACKS 35/65 POZ CLASS H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S).

ESTIMATED DRILLING DAYS TO T.D.: 14 DAYS. ESTIMATED COMPLETION DAYS: 12 DAYS

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

CARE AREA  
JAN 26 11 00 AM '96  
RECEIVED

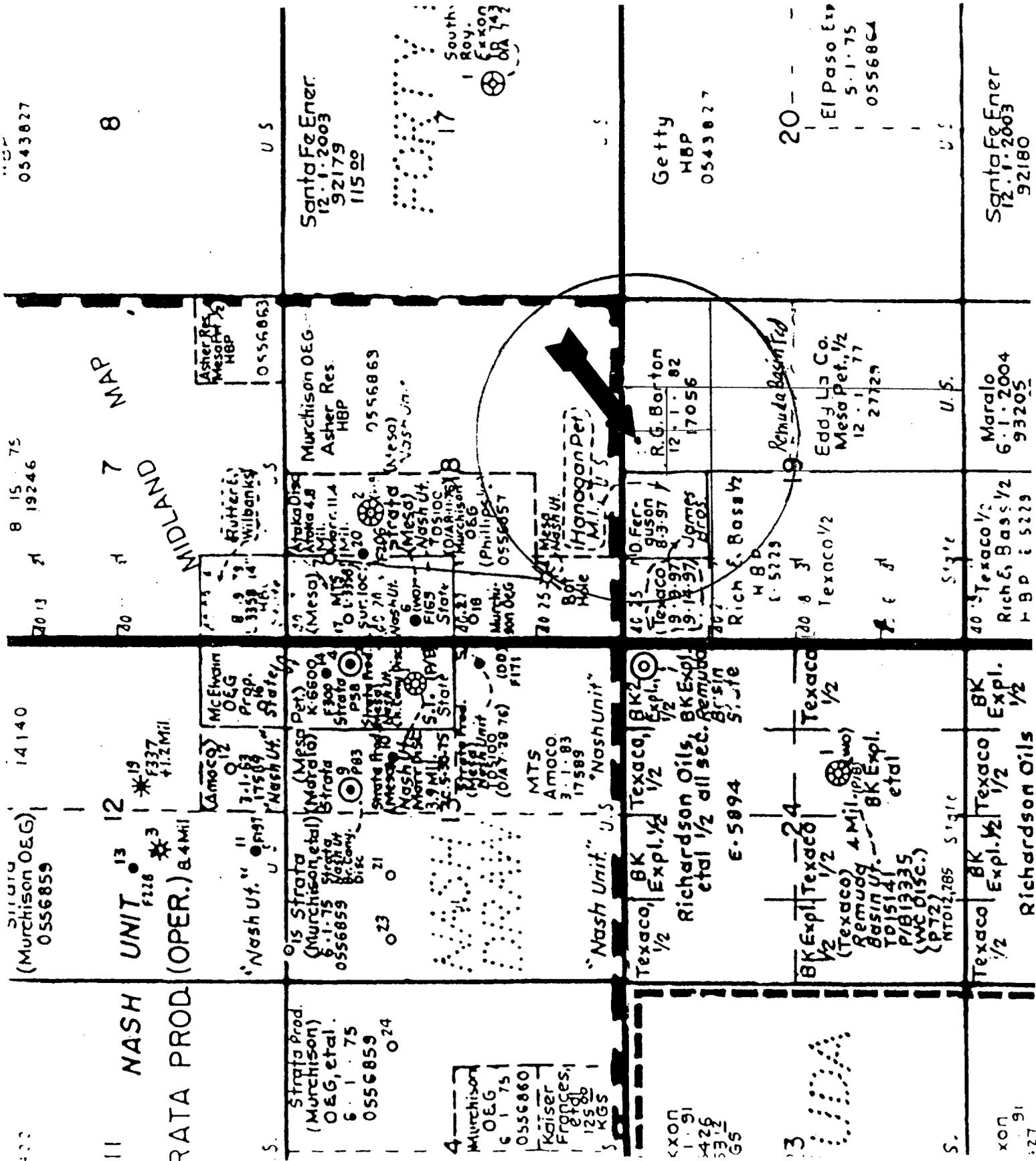
In Above Space Describe Proposed Program: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured true verticle depths. Give blowout preventer program, if any.

24. I hereby certify that the foregoing is true and correct  
SIGNATURE C. Wade Howard TITLE Eng. Assistant DATE APR 15 1996  
TYPE OR PRINT NAME C. Wade Howard

PERMIT NO. APPROVAL DATE

Application approval 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.  
APPROVED BY Gilbert J. Lucero TITLE ACTING STATE DIRECTOR DATE 3-15-96  
CONDITIONS OF APPROVAL, IF ANY:

AREA OF REVUE MAP



## **ATTACHMENTS**

- A) DATA ON WELLS IN AREA OF REVIEW  
SCHEMATICS OF OFFSETTING WELLS**
- B) PROOF OF NOTIFICATION TO:  
SURFACE OWNER  
OFFSET OPERATORS**
- C) PROOF OF LEGAL NOTICE**

**A) DATA ON WELLS IN AREA OF REVIEW**  
**Schematics of offsetting wells**

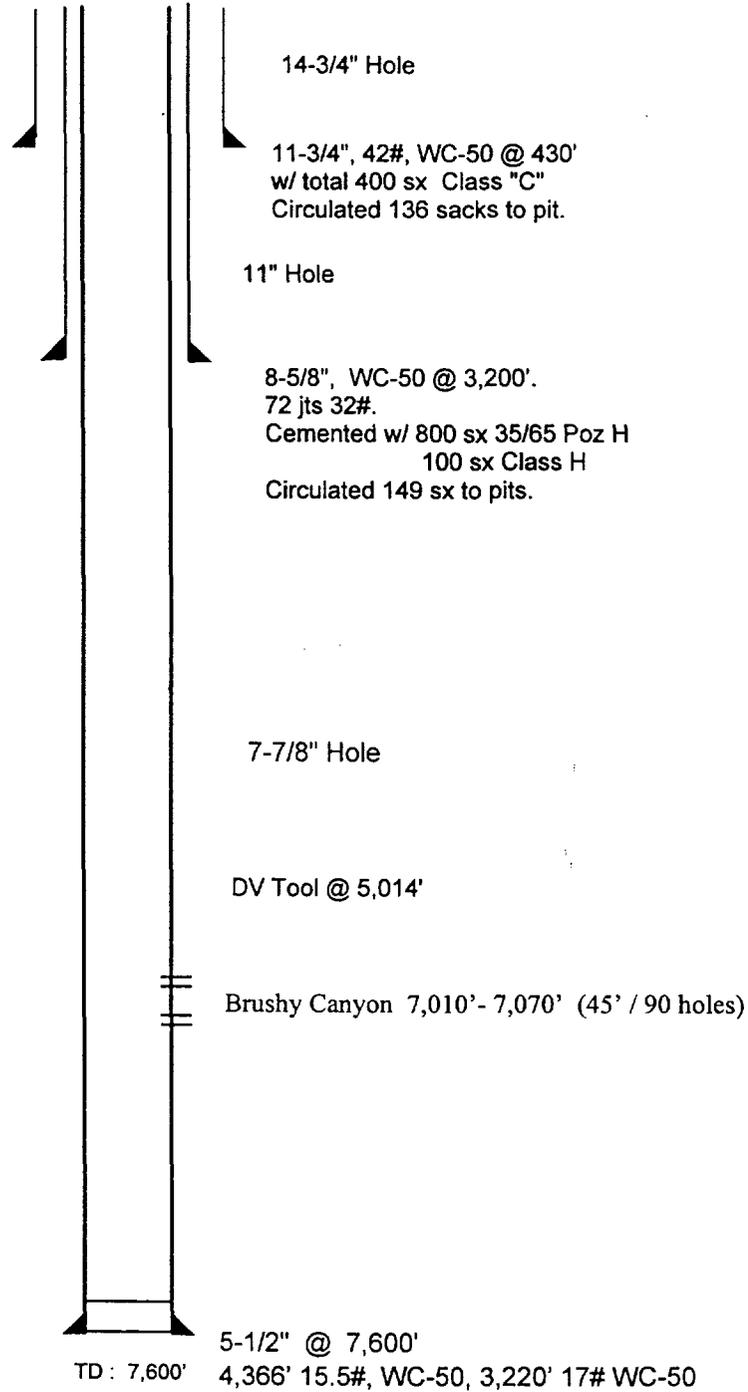
Texaco Exploration & Production Inc.

Remuda Basin State # 1

Brushy Canyon

Eddy County, New Mexico

Unit Letter F , 1,980' FNL, 1,930' FWL, Sec. 19, T-23-S, R-30-E



Cemented w/Stage 1: 650 sx 50/50 Poz H

Stage 2: 715 sks 35/65 Poz H, fb 100 sks "H" neat

**CURRENTLY PRODUCING FROM BRUSHY CANYON**

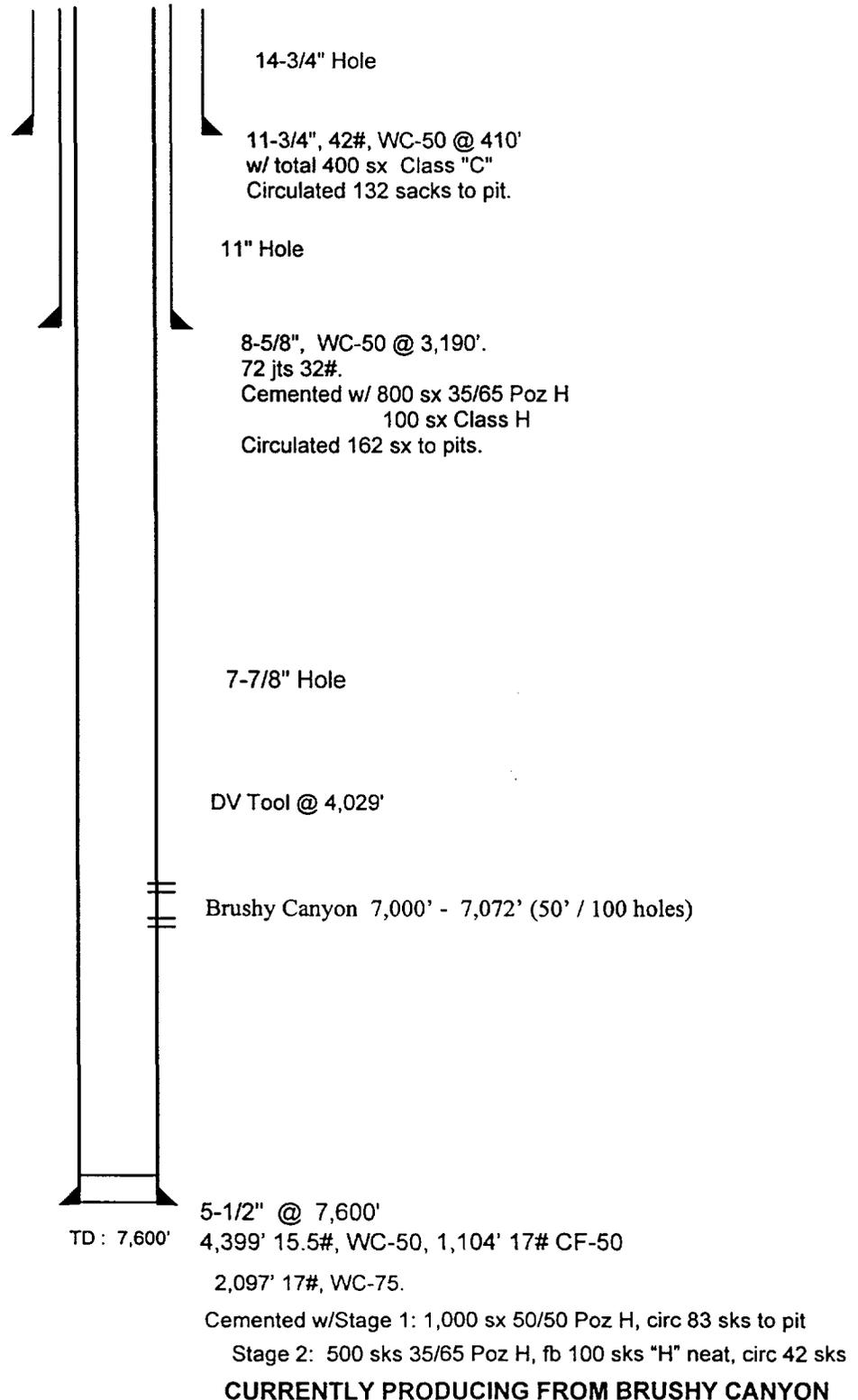
Texaco Exploration & Production Inc.

Remuda Basin "19" Fee # 1

Brushy Canyon

Eddy County, New Mexico

Unit Letter C , 510' FNL, 2,130' FWL, Sec. 19, T-23-S, R-30-E



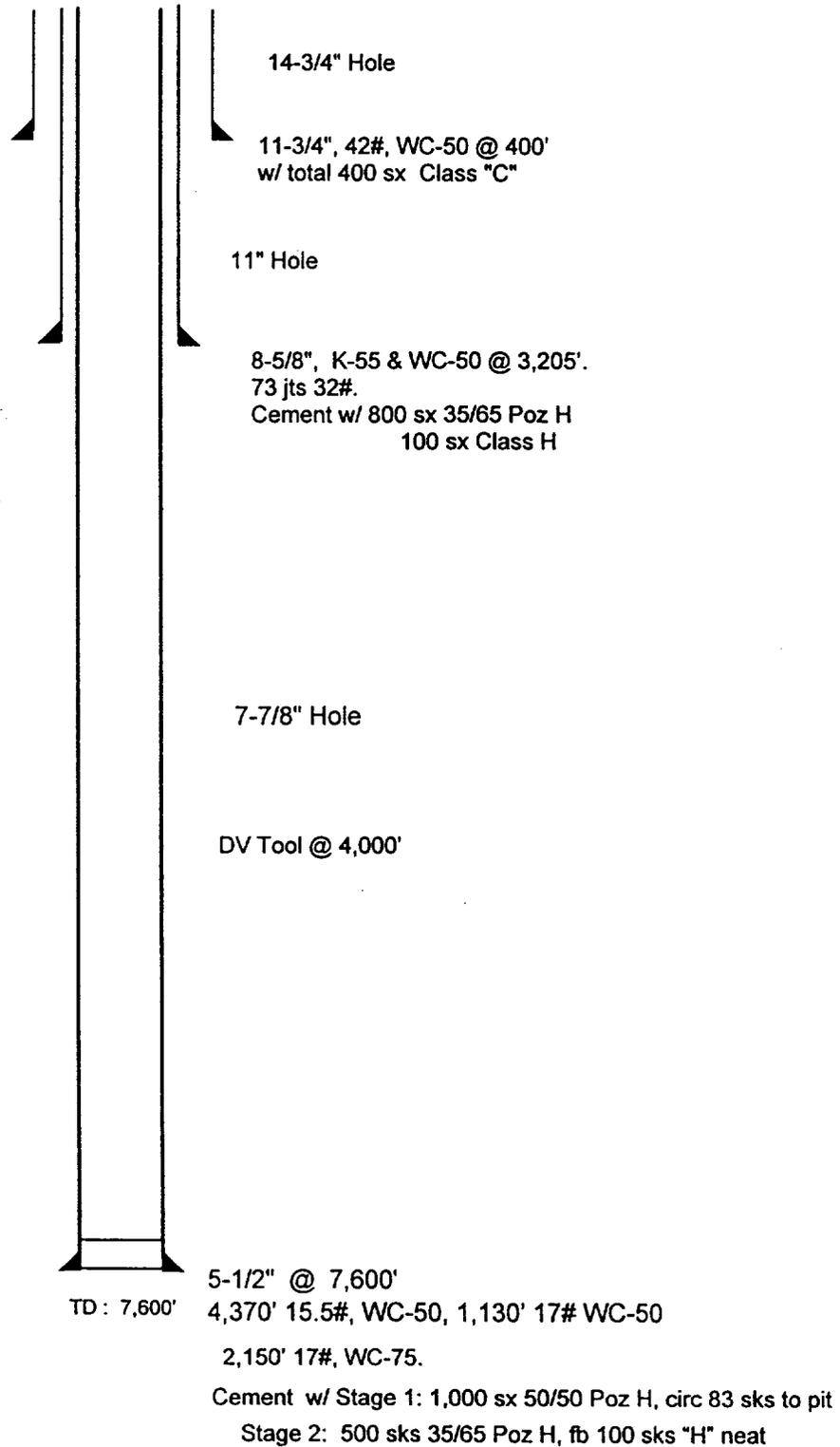
Texaco Exploration & Production Inc.

**Remuda Basin "19" Fed # 1**

**Brushy Canyon**

**Eddy County, New Mexico**

**Unit Letter B , 660' FNL, 660' FEL, Sec. 19, T-23-S, R-30-E**



**BRUSHY CANYON**

**B) PROOF OF NOTIFICATION TO:  
SURFACE OWNER  
OFFSET OPERATORS**



May 5, 1997

**Notification of Application for Salt Water Disposal Well**

Remuda Basin "19" Federal Lease  
Bell Canyon Field  
Eddy County, New Mexico

Offset Operators and Surface Owner:

This letter is to notify you that Texaco Exploration & Production Inc. is proposing to convert the following well to a salt water disposal well within the non-productive portion of the Bell Canyon interval between 3402' and 3912'. The subject lease is in Eddy County, New Mexico.

Lease Name and Well Number: Remuda Basin "19" Federal #2 (Bell Canyon Interval)  
Location: Unit letter B, 510' FNL & 1780' FEL  
Section 19, T-23-S, R-30-E

The purpose of this application is to convert the subject well into a salt water disposal well. Administrative Order SWD-626, currently on file with the Oil Conservation Division in Santa Fe, gave permission for a new drill salt water disposal well, that was not drilled, on the Remuda Basin State SWD #1 which is located in Unit Letter F, 1400' from the North line and 2500' from the West line, Section 19, Township 23 South, Range 30 East. This location is approximately 1400' from the subject well. The disposal interval will be the Bell Canyon between approximately 3402' and 3912'. Anticipated maximum rate is 1500 BWIPD and a maximum wellhead injection pressure will be 680 psig (0.2 psi/ft). Attached are maps showing the location of the above well and a copy of the pertinent wellbore data. If you have any questions, please contact me at (505) 397-0431.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 South Pacheco, P. O. Box 6429, Santa Fe, New Mexico, 87505, within fifteen (15) days of receipt of this letter.

Sincerely,

Greg Maes  
Engineer Assistant

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1.  Addressee's Address

2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Santa Fe Energy Operating Part  
550 W. Texas, Suite 1330  
Midland, Texas 79701

Attn: Meg Muhlinghouse

4a. Article Number

P 442 355 604

4b. Service Type

- Registered  Insured
- Certified  COD
- Express Mail  Return Receipt for Merchandise

7. Date of Delivery

5/6

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)

6. Signature (Agent)

PS Form 3811, December 1991 \*U.S. GPO: 1993-382-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1.  Addressee's Address

2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Yates Petroleum Corporation  
105 South 4th Street  
Artesia, New Mexico 88210

Attn: Kathy H. Porter

4a. Article Number

P 442 355 607

4b. Service Type

- Registered  Certified
- Express Mail  Insured
- Return Receipt for Merchandise  COD

7. Date of Delivery

5-6-97

8. Addressee's Address (Only if requested and fee is paid)

5. Received By: (Print Name)

6. Signature (Addressee or Agent)

X

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
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- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1.  Addressee's Address

2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Louis Dreyfus Natural Gas Corp.  
14000 Quail Spring Parkway  
Suite 600  
Oklahoma City, Oklahoma 73134-

Attn: Russell R. Waters

4a. Article Number

P 442 355 606

4b. Service Type

- Registered  Certified
- Express Mail  Insured
- Return Receipt for Merchandise  COD

7. Date of Delivery

5-8

8. Addressee's Address (Only if requested and fee is paid)

5. Received By: (Print Name)

6. Signature (Addressee or Agent)

PS Form 3811, December 1994

Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

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- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
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- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1.  Addressee's Address

2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Strata Production Company  
Roswell Petroleum Bldg.  
Suite 700  
200 W. First St.  
Roswell, New Mexico 88201

Attn: Russell R. Waters

4a. Article Number

P 442 355 608

4b. Service Type

- Registered  Certified
- Express Mail  Insure
- Return Receipt for Merchandise  COD

7. Date of Delivery

5-6-97

8. Addressee's Address (Only if requested and fee is paid)

5. Received By: (Print Name)

6. Signature (Addressee or Agent)

X

PS Form 3811, December 1994

Domestic Return Receipt

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Suite 700  
200 W. First St.  
Roswell, New Mexico 88201

Attn: Russell R. Waters

4a. Article Number

P 442 355 608

4b. Service Type

- Registered  Certified
- Express Mail  Insure
- Return Receipt for Merchandise  COD

7. Date of Delivery

5-6-97

8. Addressee's Address (Only if requested and fee is paid)

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- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1.  Addressee's Address

2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
Murchison Oil and Gas, Inc.  
1445 Ross Avenue, Suite 5300  
Dallas, Texas 75202-2883  
Attn: Michael Daugherty

4a. Article Number  
P 442 355 609

4b. Service Type  
 Registered  
 Express Mail  
 Certified  
 Insured  
 Return Receipt for Merchandise  
 COD

7. Date of Delivery  
MAY 9 1997

8. Addressee's Address (Only if requested and fee is paid)

5. Received By: (Print Name)  
Ann Inghen

6. Signature: (Addressee or Agent)  
X Ann Inghen

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1.  Addressee's Address

2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
Apache Corporation  
2000 Post Oak Blvd., Suite 100  
Houston, Texas 77056 - 4400  
Attn: Gary Carson

4a. Article Number  
P 442 355 605

4b. Service Type  
 Registered  
 Certified  
 Express Mail  
 Insured  
 COD  
 Return Receipt for Merchandise

7. Date of Delivery  
5-8-97

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)  
Gary Carson

6. Signature (Agent)  
Gary Carson

PS Form 3811, December 1991 \*U.S. GPO: 1993-352-714

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1.  Addressee's Address

2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
Hart Greenwood  
P.O. Box 104  
Carlsbad, New Mexico 88220

4a. Article Number  
P 442 355 603

4b. Service Type  
 Registered  
 Certified  
 Express Mail  
 Insured  
 COD  
 Return Receipt for Merchandise

7. Date of Delivery  
MAY 10 1997

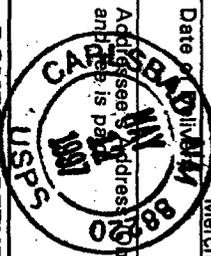
8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)  
Hart Greenwood

6. Signature (Agent)

PS Form 3811, December 1991 \*U.S. GPO: 1993-352-714

DOMESTIC RETURN RECEIPT



**C) PROOF OF LEGAL NOTICE**

# Affidavit of Publication

No 18902

State of New Mexico,  
County of Eddy, ss.

Amy McKay

being first duly sworn, on oath says:

That she is Business Manager  
of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

May 7, 19 97  
\_\_\_\_\_, 19\_\_\_\_  
\_\_\_\_\_, 19\_\_\_\_  
\_\_\_\_\_, 19\_\_\_\_  
\_\_\_\_\_, 19\_\_\_\_  
\_\_\_\_\_, 19\_\_\_\_

That the cost of publication is \$ 29.79,  
and that payment thereof has been made and will be assessed as court costs.

Amy McKay

Subscribed and sworn to before me this

8th day of May, 1997

Donna Crump

My commission expires 8/1/98  
Notary Public

May 7, 1997

Notice is hereby given of the application of Texaco Exploration and Production Inc., (Attention: Tim G. Miller, Operating Unit Manager, 205 E. Bender, Hobbs, New Mexico, 88240, Telephone (505) 393-7191), to the New Mexico Oil Conservation Commission, Energy and Minerals Department for approval of the following well to be converted to salt water disposal for the purpose of disposing of produced fluids.

Lease/Unit Name: Remuda Basin "19" Federal #2 SWD

Texaco E & P Inc. plans to convert the subject well to a salt water disposal well (using a single string of tubing) in the Bell Canyon formation in the following well.  
Well number and location: #2 - Unit letter B, 510'FNL & 1580' FEL. Section 19, T-23-S, R-30-E, Eddy County, New Mexico

The disposal formation is the Bell Canyon at a depth from 3402' feet to 4096' feet below the surface of the ground. Expected maximum injection rate is 1500 barrels per day and expected maximum injection pressure is 680 pounds per square inch. This work is part of an ongoing development project. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico, 87505, within fifteen (15) days of this publication.



AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of 1

         weeks.

Beginning with the issue dated

May 4 1997

and ending with the issue dated

May 4 1997

*Kathi Bearden*

Publisher

Sworn and subscribed to before

me this 5th day of

May 1997

*Jodi Henson*

Notary Public.

My Commission expires  
October 18, 2000  
(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

**LEGAL NOTICE**  
 Notice is hereby given of the application of Texaco Exploration & Production, Inc., (Attention: Tim G. Miller, Operating Unit Manager, 205 E. Bender, Hobbs, New Mexico 88240; Telephone (505) 393-7191) to the New Mexico Oil Conservation Commission, Energy and Minerals Department for approval of the following well to be converted to salt water disposal for the purpose of disposing of produced fluids:  
 Lease/Unit Name: Hermida Basin "19" Federal #25WD1  
 Texaco E & P, Inc. plans to convert the subject well to a salt water disposal well (using a single string of tubing) in the Bell Canyon formation in the following well. GMA #33DAWAK-122A. Well number and location: #2 - Unit letter B. 510 FNL-2-1580 FEL - Section 19, T-23-S, R-30-E, Eddy County, New Mexico.  
 The disposal formation is the Bell Canyon at a depth from 3402 feet to 4096 feet below the surface of the ground. Expected maximum injection rate is 1500 barrels per day and expected maximum injection pressure is 680 pounds per square inch. This work is part of an ongoing development project. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505 within fifteen (15) days of this publication.  
 #15187

01101308000      01507620  
 Texaco Inc.  
 205 E. Bender  
 a/c 486549  
 Hobbs, NM 88240