

OIL CONSERVATION  
RE  
MAY 9 12  
1991 MAY 30

P.O. BOX 636  
HOBBS, NEW MEXICO 88240  
OFFICE (505) 392-1915

**PEAK**  
CONSULTING SERVICES  
ENVIRONMENTAL,  
GEOLOGICAL & REGULATORY  
SPECIALISTS



**PCS**

May 28, 1991

Mr. David Catanach  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Re: Texaco Producing Inc.  
Federal Neff "13" No. 6  
Disposal Application  
Sec. 13 - T22S - R31E  
Eddy County, New Mexico

Dear David:

Rick Ryan with Texaco Producing Inc. phoned today to amend the SWD application I mailed to you last week. We wish to change section VII item No. 1 to read:

- 1.) The proposed average daily injection will be 750 bbls per day, with a maximum of 4000 bbls per day.

This change is desired because the planned facility is capable of this capacity. All offset operators are being notified of this change.

I will forward the proof of publication as soon as it is received, and I understand that the well should be permitted in the immediate future.

If you have any questions or if I can be of any assistance please let me know. Thank you for your time and cooperation.

Sincerely,

Michael L. Pierce  
Peak Consulting Services

OIL CONSERVATION DIVISION  
NEW MEXICO

MAY 9 1991

# PEAK

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ENVIRONMENTAL,  
GEOLOGICAL & REGULATORY  
SPECIALISTS

P.O. BOX 636  
HOBBS, NEW MEXICO 88240  
OFFICE (505) 392-1915



PCS

May 16, 1991

Mr. David Catanach  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Re: Texaco Producing Inc.  
Federal Neff "13" No.6  
Disposal Application  
Sec. 13 - T22S - R31E  
Eddy County, New Mexico

Dear David:

Please find enclosed two copies of Texaco Producing Inc. application for disposal. This well will be drilled into the Bell Canyon Formation, and used to dispose of produced water from both Texaco and Pogo wells producing from the Livingston Ridge Brushy Canyon Field in Eddy County. This application qualifies for administrative approval.

If you have any questions or if I can be of any assistance, please let me know. Thank you for your time and cooperation.

Sincerely,

Michael L. Pierce  
Peak Consulting Services

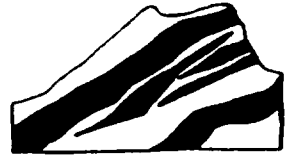
OIL CONSERVATION DIVISION  
RECEIVED

P.O. BOX 636  
HOBBS, NEW MEXICO 88240  
OFFICE (505) 392-1915

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# PEAK

CONSULTING SERVICES  
ENVIRONMENTAL,  
GEOLOGICAL & REGULATORY  
SPECIALISTS



PCS

June 3, 1991

Mr. David Catanach  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Re: Proof of Publication  
Texaco SWD applications

Dear David:

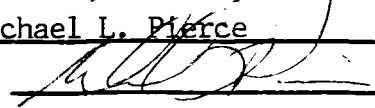
Please find enclosed the proof of publication for the Federal Neff "13" No. 6 located in section 13 - T22S - R31E, and the Dagger Draw No. 1 located in section 32 - T19S - R25E both in Eddy County New Mexico. I have not received any notice of objection for either of these applications as of this date.

If you have any questions or if I can be of any assistance, please let me know. Thank you for your time and cooperation.

Sincerely,

Michael L. Pierce  
Peak Consulting Services

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: TEXACO PRODUCING, INC.  
Address: 205 East Bender Blvd. Hobbs, New Mexico 88240  
Contact party: Michael Pierce (Consultant) Phone: 505 392-1915
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ 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/l or less) overlying the proposed injection zone as well as any such source 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: Michael L. Pierce Title: Consultant  
Signature:  Date: 5-16-91
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

## 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.

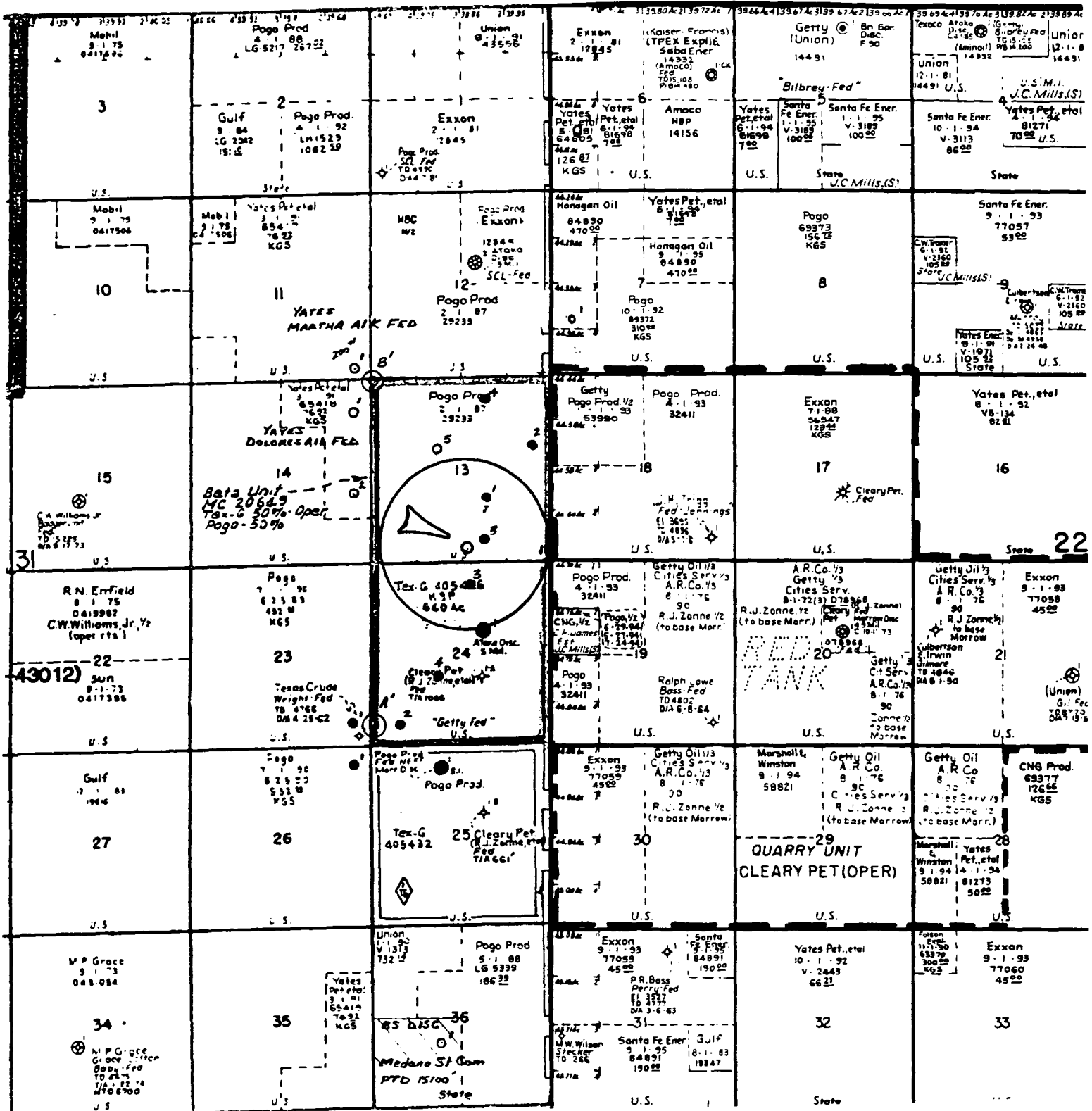
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (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, P. O. Box 2088, Santa Fe, New Mexico 87501 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.



Federal Neff "13" No. 6  
 330' FSL and 2310' FEL  
 Sec. 13 - T22S - R31E  
 Unit 0  
 Eddy County, New Mexico

FORM C - 108 cont.

Part III. A

- 1.) Federal Neff "13" No. 6  
330' FSL and 2310' FEL  
Sec. 13 - T22S - R31E  
Unit 0  
Eddy County, New Mexico
- 2.) See attached wellbore schematic.
- 3.) Propose to run approximately 4500' of 2 7/8" plastic lined tubing.
- 4.) Propose to use a Haliburton Tension Packer as a seal, and load the casing annulus with packer fluid.

Part III. B

- 1.) The injection formation is the Bell Canyon (Delaware), and the well is located in the Livingston Ridge Delaware Field.
- 2.) The injection interval will be cased at approximately 4500' to 5000'.
- 3.) This well will be drilled as a disposal well.
- 4.) See wellbore schematic
- 5.) The Brushy Canyon is the next deeper oil horizon at approximately 7000'. There is no shallower production in the area.

Part VII.

- 1.) Proposed average daily injection will be 750 bbls/ dav. Maximum will be 2000 bbls./ dav.
- 2.) The system will be closed.
- 3.) The average injection pressure will be 0(Vacuum). The maximum will not exceed the limits set forth by the OCD.
- 4.) The source of the water will be from Texaco Producing and Pogo Producing Company wells from the Livingston Ridge Delaware Field.
- 5.) The Bell Canyon is not productive within one mile of the Federal Neff "13" No. 6 well.

#### Part VIII

The injection interval is the Bell Canyon Member of the Delaware Formation, and is composed of primarily Sandstone with occasional thin bedded carbonates. The top of the Bell Canyon is at approximately 4500'. This entire area is overlain by the Quaternary Alluvium and Triassic Redbeds. There is no proven fresh water within one mile of the proposed location. There are no fresh water zones below the Bell Canyon.

#### Part IX

The disposal interval will be treated with a breakdown acid job.

#### Part X

The logs will be submitted when the well is completed.

#### Part XI

There are no active fresh water wells within one mile of the Federal Neff "13" No. 6 location.

#### Part XII

We have examined all available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between the disposal interval and any underground source of drinking water.

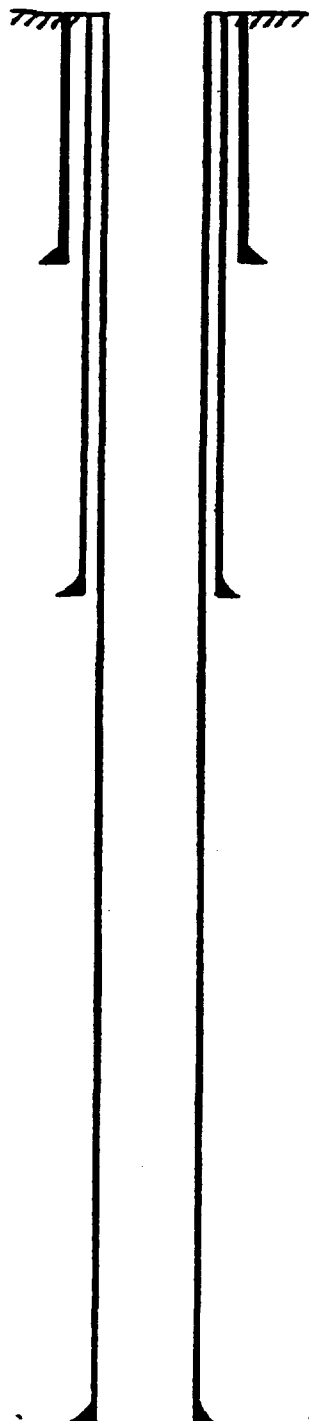


OPERATOR <b>Texaco</b>		DATE <b>Proposed</b>	
LEASE <b>Federal Neff 13</b>		WELL No. <b>6</b>	LOCATION <b>330 FSL + 2310 FEL</b>

**Eddy Co.**

**Sec 13, T22S, R31E  
Unit 0**

## Proposed Wellbore Schematic



**13<sup>3/8</sup>" csg set @ 40' with enough cmt to circulate 17<sup>1/2</sup>" hole**

**9<sup>5/8</sup>" casing set at 840' with \_\_\_\_\_ sx of \_\_\_\_\_ cement  
Hole size 12<sup>1/4</sup>" enough cmt to circulate**

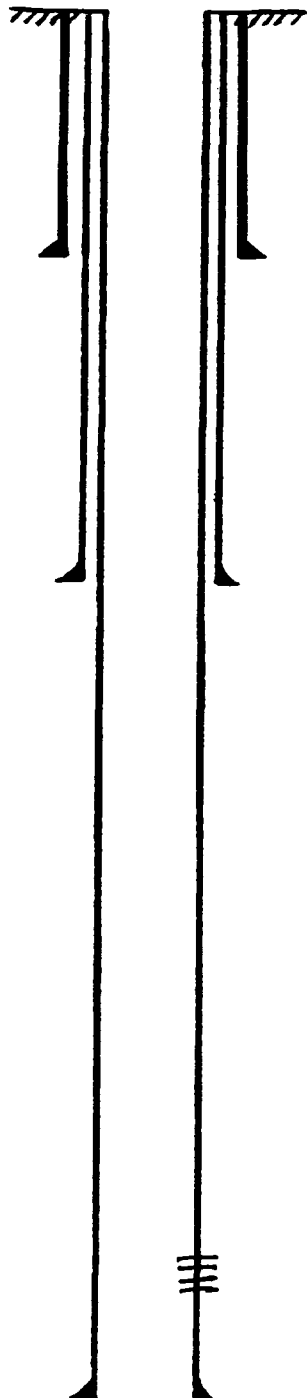
**Perf selectively Bell Canyon (Delaware)  
4500 - 5000'**

**7" casing set at 5000' with \_\_\_\_\_ sx of \_\_\_\_\_ cement  
Total Depth 5000' Hole size 8<sup>3/4</sup>" enough cmt to circulate**

OPERATOR	Texaco Producing Inc		DATE	4-30-91
LEASE	Neff 13 Federal	WELL No.	3	LOCATION
	Eddy Co.			Sec 13-T 22S-R31E Unit 0

660' FSL AND 1980' FEL

STATUS: Active Producer  
BRUSHY CANYON



11 3/4" CSG set @ 834' w/ 700 SXS cmt  
14 3/4" hole Circulated

8 5/8" casing set at 4520' with 1100 sx of \_\_\_\_\_ cement  
Hole size 10 5/8" Circulated

Perforate 7068 - 7110 BRUSHY CANYON

DV tool @ 6101 1<sup>st</sup> stage 950 SXS CIRC  
2<sup>nd</sup> stage 1050 SXS CIRC

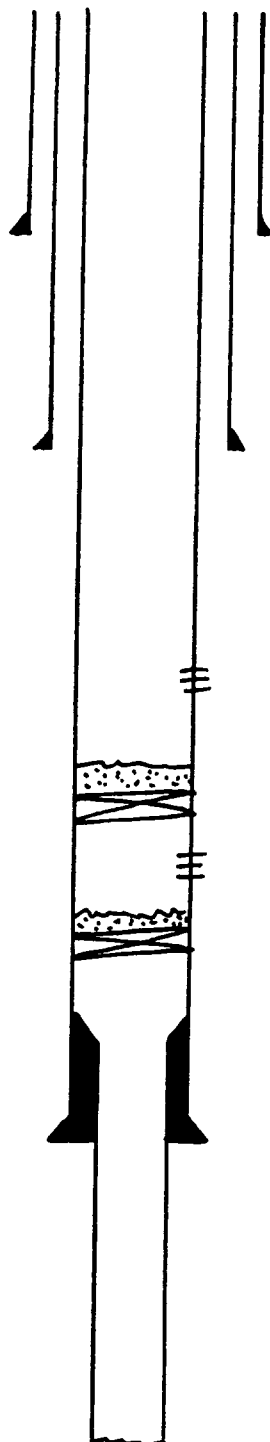
5 1/2" casing set at 8450' with 2000 sx of \_\_\_\_\_ cement  
Total Depth 8450' Hole size 7 7/8" Circulated

OPERATOR POGO Producing Company		DATE 4-30-91	
LEASE Neff 13	WELL No. 1	LOCATION Unit J Sec 13-T22S-R31E	

1980' FSL and 1980' FEL

Eddy Co. New Mexico

Status: Active Producer.



13 3/8 " casing set at 805 ' with 670 sx of \_\_\_\_\_ cement  
Hole size 17 1/2 " Circulated

10 3/4 " casing set at 4517 ' with 1452 sx of \_\_\_\_\_ cement  
Hole size 12 1/4 " Circulated

Perf 7119-7158 Brushy CANYON

CIBP @ 9490' + 35' cmt.

Perf Bone Spring 9540-9608

CIBP @ 11400' + 35' cmt

Csg collapse @ 11452'

7 5/8 " casing set at 11876 ' with 1671 sx of \_\_\_\_\_ cement  
Total Depth 11876 ' Hole size 9 1/2 " Toc

DUC @ 9005' 126-6086 SX - Circ 7000  
214-985 SX 5517  
13740

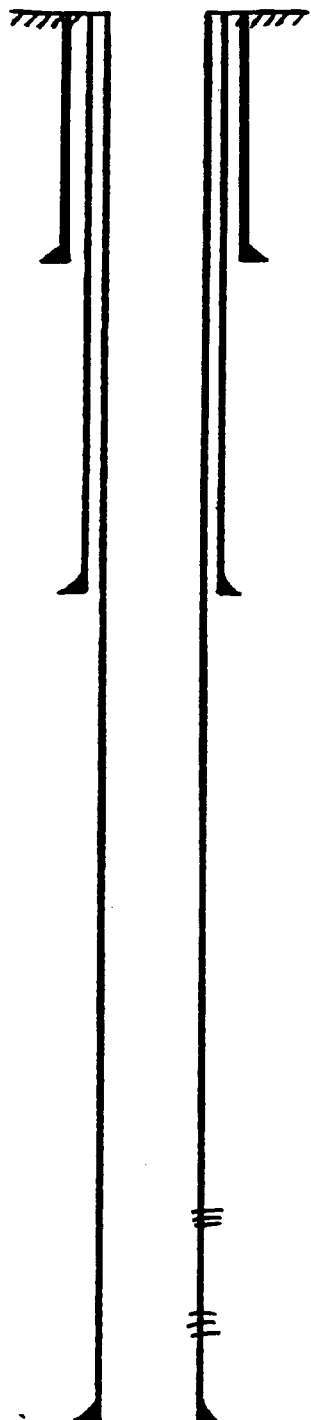
5 " casing set at 11508 ' with 213 sx of \_\_\_\_\_ cement  
Total Depth 14975 ' Hole size 6 1/8 " Circulated

OPERATOR <b>TEXACO PRODUCING INC</b>		DATE <b>4-30-91</b>	
LEASE <b>Getty 24 Federal</b>	WELL NO. <b>3</b>	LOCATION <b>SEC 24-T22S-R31E unit B</b>	

**Eddy Co.**

**660' FNL AND 2310 FEL'**

STATUS: Active Producer  
**BRUSHY CANYON**



**1 13/4" CSG set @ 796' w/ 700 sx cement**  
**14 3/4" hole**  
**Circulated**

**8 5/8" casing set at 4520' with 1641 sx of \_\_\_\_\_ cement**  
**Hole size 11" Circulated**

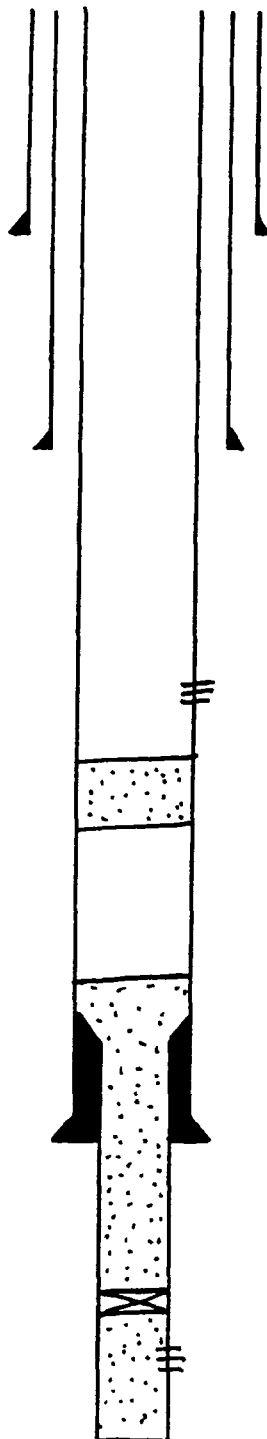
PERFORATE 7874 - 7915 } **BRUSHY CANYON**  
8284 - 8320 }

**5 1/2" casing set at 8410' with 1965 sx of \_\_\_\_\_ cement**  
**Total Depth ~~8710~~ 8410' Hole size 7 7/8" Circulated**

OPERATOR <i>TEXACO PRODUCING, Inc.</i>		DATE <i>4-30-91</i>	
LEASE <i>Getty 24 Federal</i>	WELL No. <i>1</i>	LOCATION <i>SEC 24-T22S-1231E Unit 6</i>	

*1980' FNL and 1980' FSL  
Eddy Co. New Mexico*

*STATUS: Active Producer  
BRUSHY CANYON*



*13 3/8" casing set at 891' with 1200 sx of \_\_\_\_\_ cement  
Hole size 17 1/2" Circulated*

*9 5/8" casing set at 4513' with 1800 sx of \_\_\_\_\_ cement  
Hole size 12 1/4" Circulated*

*Perf BRUSHY CANYON 7091 - 7112*

*SPOT 60 SXS 7943 - 8268*

*CIBP @ 13147 + 150 SXS cmt.*

*SQZ 13528 - 13566 w/ 150 SXS*

*Perf Atoka 13528 - 13566*

*7" casing set at 12242' with 2200 sx of \_\_\_\_\_ cement  
Total Depth 12242' Hole size 8 1/2" est. TOC @ 1650'  
50% efficiency*

*5" casing set at 14934' with 400 sx of \_\_\_\_\_ cement  
Total Depth 14934' Hole size 6 1/8" Circulated*



Sent to <b>J.C. Mills</b>	
Street & No. <b>PO Box 190</b>	
P.O. State & ZIP Code <b>ABERATHY TX 79311</b>	
Postage	\$ .75
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$ 1.75
Postmark or Date <b>MAY 1991</b>	

PS Form 3800, June 1990



Sent to <b>BLM</b>	
Street & No. <b>PO Box 1778</b>	
P.O. State & ZIP Code <b>CARLSBAD, NM 88221-1778</b>	
Postage	\$ .75
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$ 1.75
Postmark or Date <b>MAY 1991</b>	

PS Form 3800, June 1990



Sent to <b>POGO Producing Co</b>	
Street & No. <b>PO Box 10340</b>	
P.O. State & ZIP Code <b>MIDLAND TX 79702</b>	
Postage	\$ .75
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$ 1.75
Postmark or Date <b>MAY 1991</b>	

PS Form 3800, June 1990

# Affidavit of Publication

State of New Mexico,  
County of Eddy, ss.

E. C. Cantwell, being first duly sworn,  
on oath says:

That he is publisher 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 21, 19 91  
\_\_\_\_\_, 19 \_\_\_\_  
\_\_\_\_\_, 19 \_\_\_\_  
\_\_\_\_\_, 19 \_\_\_\_

that the cost of publication is \$ 10.84,  
and that payment thereof has been made  
and will be assessed as court costs.

*E C Cantwell*

Subscribed and sworn to before me this

21 day of May, 19 91

*Donella J. Jeter*

My commission expires 6/01/92  
Notary Public

May 21, 1991

## ADVERTISEMENT

TEXACO PRODUCING, INC., whose address is 205 E. Bender Blvd. HOBBS, NEW MEXICO 88240, proposes to drill the following well for the purpose of disposing produced water from oil and gas production.

The well is the Federal Neff "13" located at 330' FSL and 1980' FEL Sec. 13 - T22S - R31E, unit 0, Eddy County New Mexico. The injection zone is the Bell Canyon Member of the Delaware Formation at 4500' - 5000'. The maximum injection rate will be 2000 bbls/day, with pressure not to exceed limits as set

forth by the Oil Conservation Division.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, within 15 days.

Inquiries regarding this application should be directed to M. Pierce, P.O. Box 636, Hobbs, New Mexico 88240, (505) 392 - 1915.