

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: TEXACO E+P, INC. Well: B.F. HARRISON "B" WELL No. 16

Contact: MIKE PIERCE Title: CONSULTANT (PEAK) Phone: 392-19015

DATE IN FEB 11, 94 RELEASE DATE FEB 25, 94 DATE OUT MAR 21, 94

Proposed Injection Application is for: ☐ WATERFLOOD ☐ Expansion ☐ Initial

Original Order: R- ☐ Secondary Recovery ☐ Pressure Maintenance

SENSITIVE AREAS

☒ SALT WATER DISPOSAL

☐ WIPP ☐ Capitan Reef ☐ Commercial Operation

Data is complete for proposed well(s)? ☐ Additional Data _____

AREA of REVIEW WELLS

17 Total # of AOR 0 # of Plugged Wells

YES Tabulation Complete N/A Schematics of P & A's

YES Cement Tops Adequate N/A AOR Repair Required

INJECTION INFORMATION

Injection Formation(s) SAN ANDRES

Source of Water AREA TEXACO WELLS - S.A. TRQ, GRB, ELL Compatible YES
FUSS, DEV, BLINERY

PROOF OF NOTICE

☐ Copy of Legal Notice ☐ Information Printed Correctly

☐ Correct Operators YES Copies of Ce.tified Mail Receipts

☐ Objection Received ☐ Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact: <input checked="" type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	<u>3-21-94</u> Date	Nature of Discussion <u>COPY OF LEGAL</u>
2nd Contact: <input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion _____
3rd Contact: <input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion _____

PEAK
CONSULTING SERVICES
ENVIRONMENTAL,
GEOLOGICAL & REGULATORY
SPECIALISTS

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



PCS

February 8, 1994

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

Re: Texaco Exploration and Production Inc.
Harrison B. F. 'B' No. 16 SWD
Injection Application
Sec. 9 - T23S - R37E
Lea County, New Mexico

Dear David:

Please find enclosed two copies of Texaco Producing Inc.'s application for injection. We propose to drill this well as a San Andres SWD.

I will provide proof of publication as soon as possible.

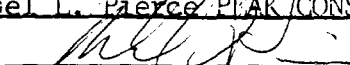
If you have any questions or if I can be of any assistance, please let me know. Thank you for your time and consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "M. L. Pierce".

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 EXPLORATION AND PRODUCTION INC.
Address: 205 East Bender Hobbs, NM 88240
Contact party: M.L. Pierce (Agent) 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 PEAK CONSULTING SERVICES Title: Agent for TEXACO E & P INC.
Signature:  Date: 2-08-94
- * 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.

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.

ILLEGIBLE

FORM C - 108 cont.

Part III. A

- 1.) B.F. Harrison 'B' No. 18 SWD
996' FNL and 531' FNL
Sec. 9 - T23S - R37E
Unit D
Lea County, New Mexico
- 2.) See attached wellbore schematic.
- 3.) Propose to run approximately 4150' of 2 7/8" plastic lined tubing.
- 4.) Propose to use a tension Packer as a seal.
and load the casing annulus with packer fluid.

Part III. B

- 1.) The injection interval will be in the lower San Andres.
and there is no San Andres production from this interval
in the immediate area. (The B.F. Harrison 'B' No. 18
produces from the upper San Andres. There will be
approximately 200' of separation between the injection
interval and the producing San Andres perfs.)
- 2.) The injection interval will be approximately
4200' to 5000' and will be open hole.
- 3.) This well will be drilled as a SWD.
- 4.) See wellbore schematic
- 5.) There is production from above and below the San Andres
in this area. The Langlie Mattix 7-Rivers-Queen -
Gravburg at approximately 2800' to 3800'. San Andres at
3322', Teague Ellenberger at 10,000', Teague Fusselman
at 8800', Teague Devonian at 7500', Teague Blinbry at
5600', and Lea Undesignated Group 2 at 5100'.

Part VII.

- 1.) Proposed average daily injection will be 2000 bbls/ day.
Maximum will be 5000 bbls./ day.
- 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 Exploration and Production Inc. operated wells in the immediate area.
- 5.) The San Andres is productive within one mile of the Harrison B. F. 'B' No. 16 SWD well.

Part VIII

The injection interval is the lower San Andres, and is composed of primarily limestone and porous dolomite with occasional anhydrite and thin shale stringers, and is approximately 1200' thick. The top of the San Andres is at approximately 3822'. This entire area is overlain by the Quaternary Alluvium. The Ogallala is the main fresh water source in this area, at a depth of 100' to 300' deep.

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 active fresh water wells within one mile of the Harrison B. F. 'B' No. 16 SWD location. The analysis for these wells are attached.

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.

LIST OF WELLS WHICH PENETRATE THE SAN ANDRES

OPERATOR	WELL NAME & NUMBER	U/L	SEC	TWN	RNG	TD
TEXACO EXPL & PROD INC.	R R SIMS # 1	N	4	23	37	10254
"	"	N	4	23	37	8965
"	"	N	4	23	37	8950
"	"	M	4	23	37	7700
"	"	C	9	23	37	10250
"	"	C	9	23	37	8907
"	"	D	9	23	37	10402
"	"	D	9	23	37	9000
"	"	D	9	23	37	5400
"	"	E	9	23	37	10307
"	"	F	9	23	37	10258
"	"	F	9	23	37	8950
"	"	L	9	23	37	6000
"	"	E	9	23	37	5448
"	"	C	9	23	37	5400
"	"	C	9	23	37	8950
"	"	D	9	23	37	5000

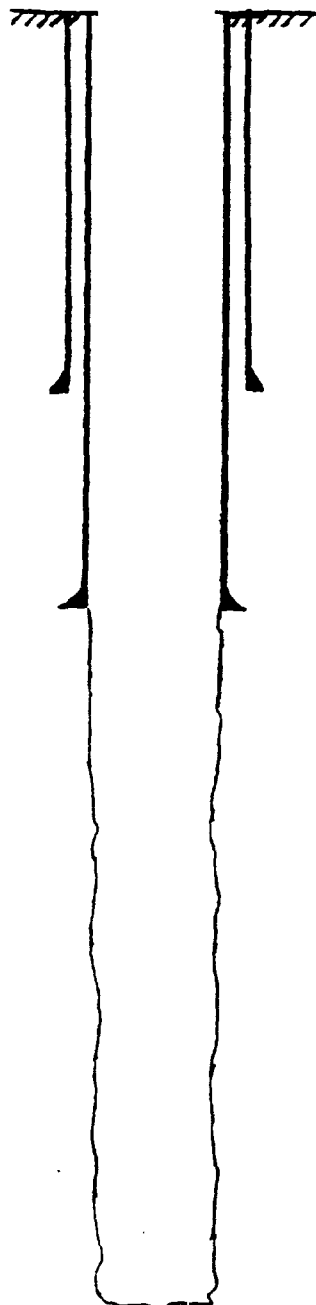
LIST OF WELLS WHICH DO NOT PENETRATE THE SAN ANDRES

OPERATOR	WELL NAME & NUMBER	U/L	SEC	TWN	RNG
TEXACO EXPL & PROD INC.	SKELLY PENROSE A UNIT # 33	M	4	23	37
"	" " " " # 34	N		"	
OXY USA INC.	SKELLY PENROSE B UNIT # 40	P	5	23	37
"	" " " " # 43	A	8	23	37
"	" " " " # 49	G	8	23	37
"	" " " " # 50	H	8	23	37
"	" " " " # 55	I	8	23	37
"	" " " " # 63	B	8	23	37
"	" " " " # 74	B	8	23	37
TEXACO EXPL & PROD INC.	SKELLY PENROSE A UNIT # 46	B	9	23	37
"	" " " " # 47	G	9	23	37
OXY USA INC.	SKELLY PENROSE B UNIT # 41	C	9	23	37
"	" " " " # 42	D	9	23	37
"	" " " " # 51	E	9	23	37
"	" " " " # 52	F	9	23	37
"	" " " " # 53	K	9	23	37
"	" " " " # 54	L	9	23	37

OPERATOR TEXACO EXPLORATION AND PRODUCTION INC.		DATE 1-14-94
LEASE B.F. HARRISON "B" NO. 16 SWD	WELL NO. 16	LOCATION 996' ENL & 531' FWL

sec. 9-T23S-R37E
Lea County, New Mexico

PROPOSED CONFIGURATION



8 5/8 " casing set at 1190 ' with 650 sx of _____ ceme
Hole size 12 1/4 " sufficient to Circulate

5 1/2 " casing set at 4200 ' with _____ sx of _____ cemen
Hole size 7 7/8 " sufficient to Circulate

Total Depth 5000 ' Hole size 7 7/8 "

TEXACO EXPL & PROD INC.
B F HARRISON "B" #1
UNIT: C SEC 9 T 23 S R 37 E
593/FNL 1707/FWL
TD: 10250

TABULAR DATA

SURFACE CASING

SIZE: 13 3/8 SET AT: 1180 HOLE SIZE: 17 1/2
CEMENTED WITH 1400
TOC: SURFACE DETERMINED BY: CIRC 25 SX

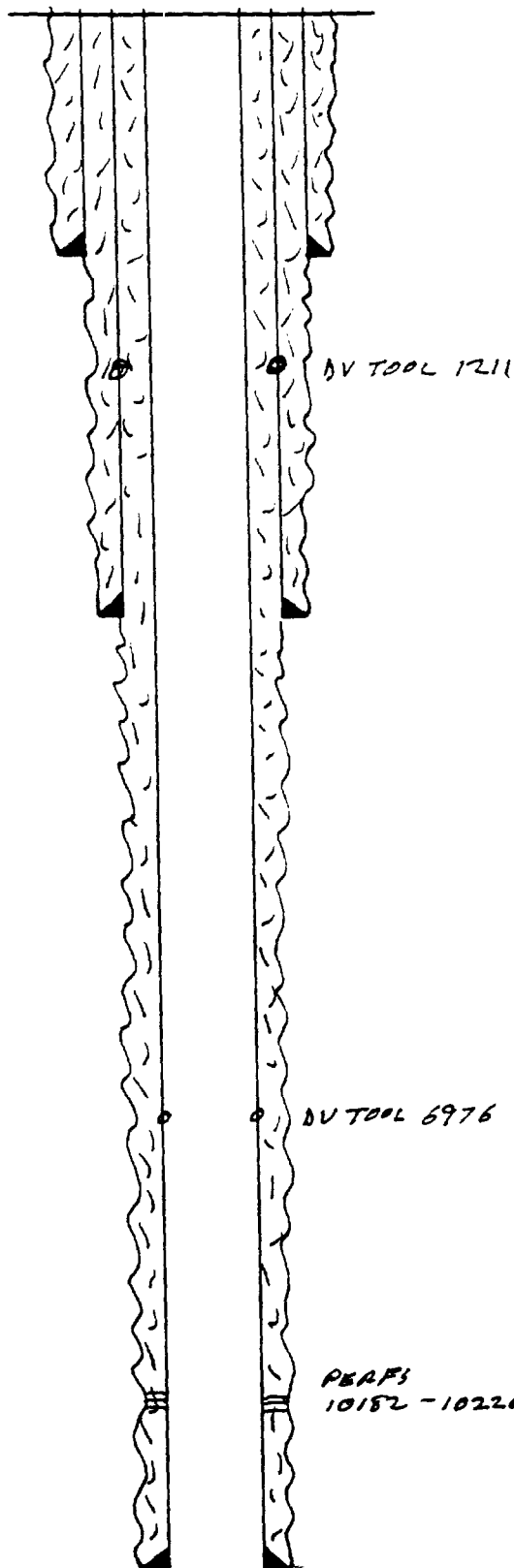
INTERMEDIATE 1 CASING

SIZE: 9 5/8 SET AT: 3745 HOLE SIZE: 12 1/4
CEMENTED WITH 1950
TOC: SURFACE DETERMINED BY: *
DV TOOL @: 1211
IN ONE STAGE 1950 SX. CIRC 235 SX

PRODUCTION CASING

SIZE: 7 SET AT: 8900 HOLE SIZE: 8 3/4
CEMENTED WITH 1125
TOC: SURFACE DETERMINED BY: **
DV TOOL @: 6976
1 ST STAGE 375 SX.
2 ND STAGE 750 SX. CIRC 10 SX

PRODUCING INTERVAL: ELLENBURGER
POOL: TEAGUE; ELLENBURGER, NORTH
PERFS: 10182 TO 10226



TEXACO EXPL & PROD INC.

B F HARRISON "B" #2

UNIT: F SEC 9 T 23 S R 37 E

1980/FNL 1800/FWL

TD: 10258

TABULAR DATA

SURFACE CASING

SIZE: 13 3/8 SET AT: 1175 HOLE SIZE: 17 1/2

CEMENTED WITH 1400

TOC: SURFACE DETERMINED BY: CIR 300 SX

INTERMEDIATE 1 CASING

SIZE: 9 5/8 SET AT: 3750 HOLE SIZE: 12 1/4

CEMENTED WITH 1750

TOC: 50 DETERMINED BY: CALC

DV TOOL @: 1244

1 ST STAGE 1400 SX.

2 ND STAGE 350 SX. DID NOT CIRC

PRODUCTION CASING

SIZE: 7 SET AT: 10258 HOLE SIZE: 8 3/4

CEMENTED WITH 1000

TOC: 4229 DETERMINED BY: CALC

DV TOOL @: 7070

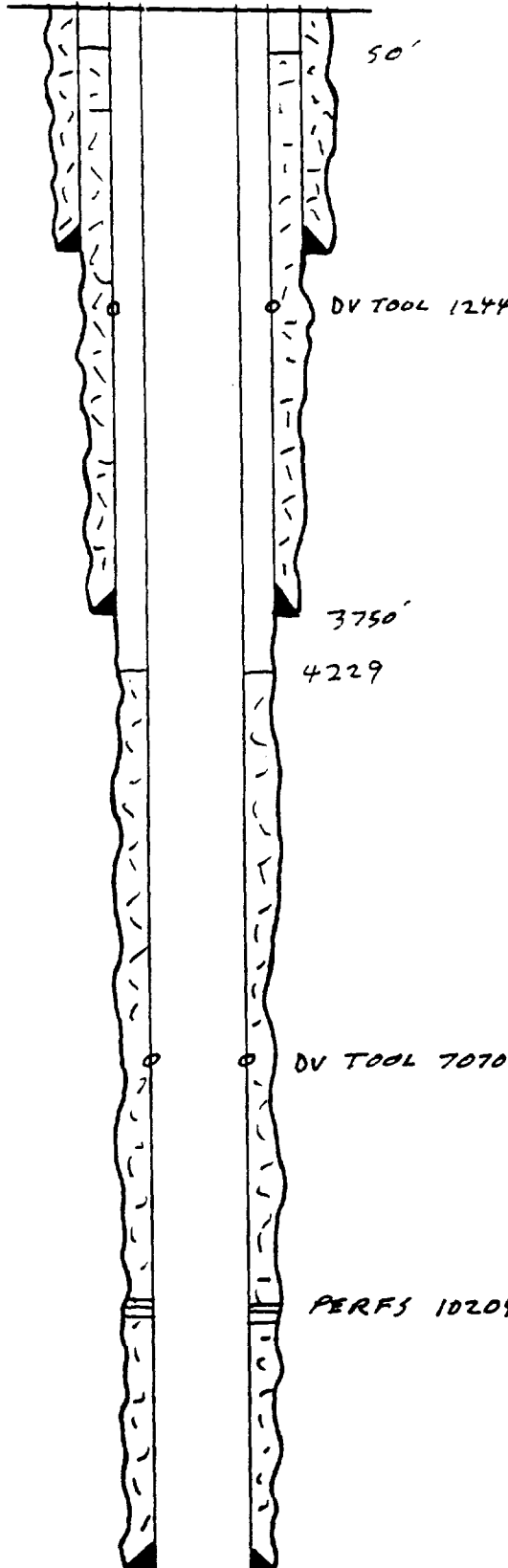
1 ST STAGE 300 SX.

2 ND STAGE 700 SX. DID NOT CIRC

PRODUCING INTERVAL: ELLENBURGER

POOL: TEAGUE; ELLENBURGER, NORTH

PERFS: 10204 TO 10252



TEXACO EXPL & PROD INC.
B F HARRISON "B" #3
UNIT: C SEC 9 T 23 S R 37 E
340/FNL 1700/FWL
TD: 8907

TABULAR DATA

SURFACE CASING

SIZE: 13 3/8 SET AT: 1165 HOLE SIZE: 17 1/2
CEMENTED WITH 1100
TOC: SURFACE DETERMINED BY: CIRC 161 SX

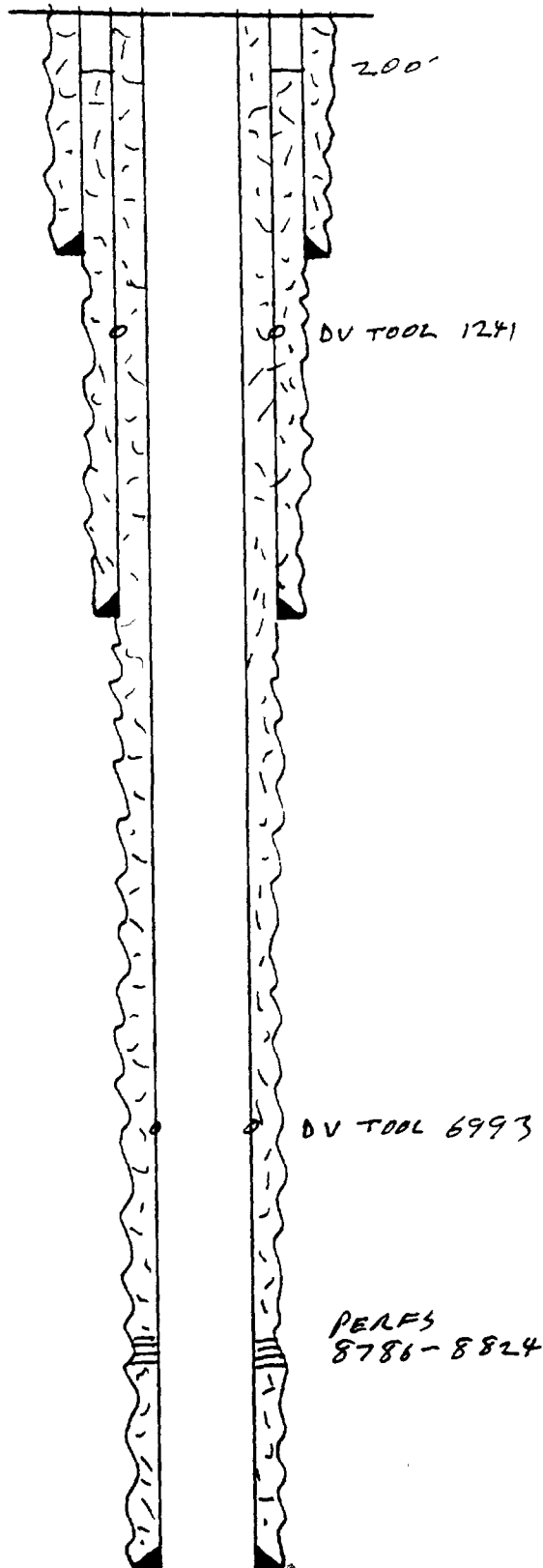
INTERMEDIATE 1 CASING

SIZE: 9 5/8 SET AT: 3750 HOLE SIZE: 12 1/4
CEMENTED WITH 1600
TOC: 200 DETERMINED BY: TEMP SURVEY
DV TOOL @: 1241
1 ST STAGE 1150 SX. CIRC 247 SX
2 ND STAGE 450 SX. DID NOT CIRC

PRODUCTION CASING

SIZE: 5 1/2 SET AT: 8907 HOLE SIZE: 8 3/4
CEMENTED WITH 2200
TOC: SURFACE DETERMINED BY: CIRC 96 SX
DV TOOL @: 6693
1 ST STAGE 750 SX. CIRC 250 SX
2 ND STAGE 1450 SX. CIRC 96 SX

PRODUCING INTERVAL: FUSSELMAN
POOL: TEAGUE; FUSSELMAN, NORTH
PERFS: 8786 TO 8824



TEXACO EXPL & PROD INC.

B F HARRISON "B" #4

UNIT: D SEC 9 T 23 S R 37 E

660/FNL 800/FWL

TD: 10402

TABULAR DATA

SURFACE CASING

SIZE: 13 3/8 SET AT: 1180 HOLE SIZE: 17 1/2

CEMENTED WITH 1100

TOC: SURFACE DETERMINED BY: CIRC 284 SX

INTERMEDIATE 1 CASING

SIZE: 9 5/8 SET AT: 3755 HOLE SIZE: 12 1/4

CEMENTED WITH 1950

TOC: SURFACE DETERMINED BY: CIRC 100 SX

DV TOOL @: 1149

1 ST STAGE 550 SX. CIRC 150 SX

2 ND STAGE 1400 SX. CIRC 100 SX

PRODUCTION CASING

SIZE: 5 1/2 SET AT: 10402 HOLE SIZE: 8 3/4

CEMENTED WITH 2600

TOC: SURFACE DETERMINED BY: CIRC 66 SX

DV TOOL @: 6965

1 ST STAGE 1250 SX. CIRC 300 SX

2 ND STAGE 1350 SX. CIRC 66 SX

PRODUCING INTERVAL: ELLENBURGER

POOL: TEAGUE; ELLENBURGER, NORTH

PERFS: 10220 TO 10276

DV TOOL 1149

DV TOOL 6965

PERFS
10220-10276

TEXACO EXPL & PROD INC.

B F HARRISON "B" #6

UNIT: F SEC 9 T 23 S R 37 E

1654/FNL 1700/FWL

TD: 8950

TABULAR DATA

SURFACE CASING

SIZE: 13 3/8 SET AT: 1180 HOLE SIZE: 17 1/2

CEMENTED WITH 900

TOC: SURFACE DETERMINED BY: CIRC 140 SX

INTERMEDIATE 1 CASING

SIZE: 9 5/8 SET AT: 3750 HOLE SIZE: 12 1/4

CEMENTED WITH 1625

TOC: SURFACE DETERMINED BY: CIRC 40 SX

DV TOOL @: 1089

1 ST STAGE 1150 SX. CIRC 150 SX

2 ND STAGE 475 SX. CIRC 85 SX

PRODUCTION CASING

SIZE: 5 1/2 SET AT: 8950 HOLE SIZE: 7 7/8

CEMENTED WITH 1700

TOC: SURFACE DETERMINED BY: CIRC 60 SX

DV TOOL @: 7007

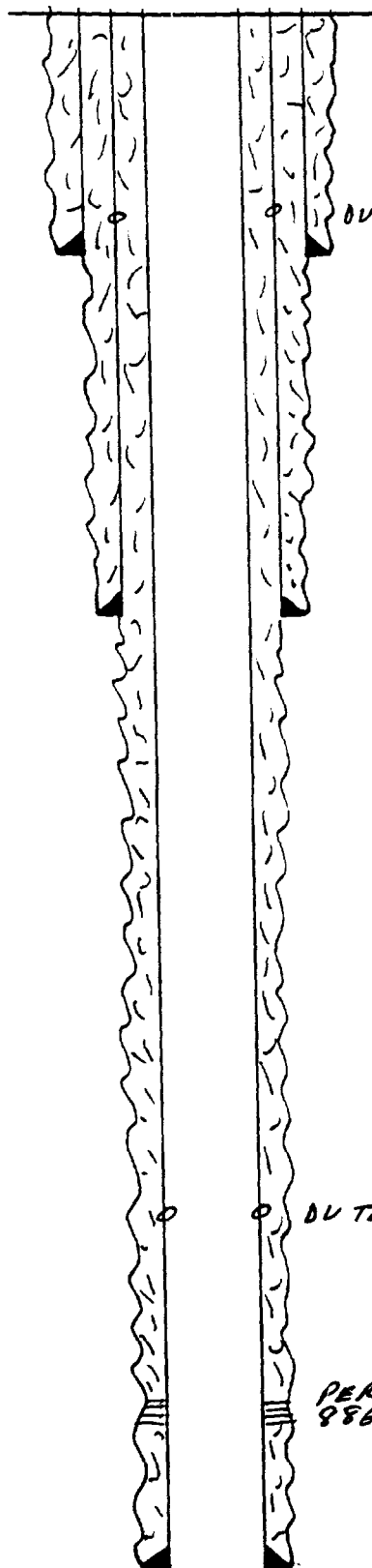
1 ST STAGE 450 SX. CIRC 40 SX

2 ND STAGE 1250 SX. CIRC 60 SX

PRODUCING INTERVAL: FUSSELMAN

POOL: TEAGUE; FUSSELMAN, NORTH

PERFS: 8868 TO 8870



TEXACO EXPL & PROD INC.
B F HARRISON "B" #7
UNIT: D SEC 9 T 23 S R 37 E
510/FNL 800/FWL
TD: 9000

TABULAR DATA

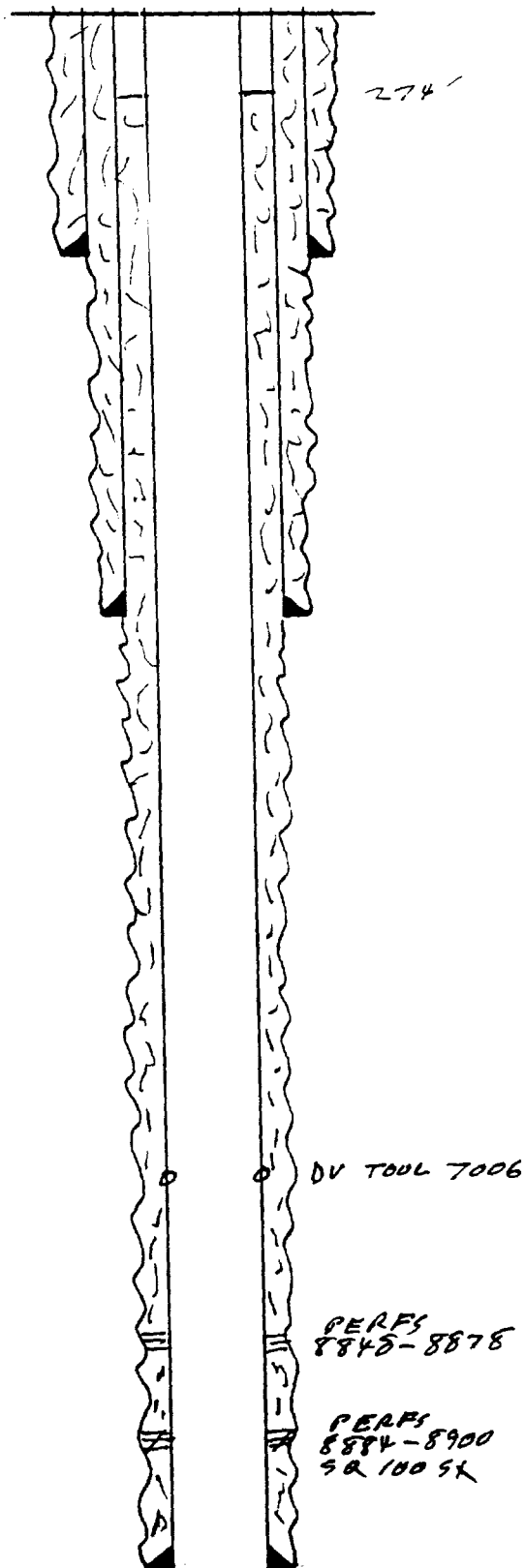
SURFACE CASING
SIZE: 13 3/8 SET AT: 1180 HOLE SIZE: 17 1/2
CEMENTED WITH 900
TOC: SURFACE DETERMINED BY: CIRC 134 SX

INTERMEDIATE 1 CASING
SIZE: 9 5/8 SET AT: 3750 HOLE SIZE: 12 1/4
CEMENTED WITH 1325
TOC: SURFACE DETERMINED BY: CIRC 130 SX

PRODUCTION CASING
SIZE: 5 1/2 SET AT: 9000 HOLE SIZE: 7 7/8
CEMENTED WITH 1725
TOC: 274 DETERMINED BY: TEMP SURVEY
DV TOOL @: 7006
1 ST STAGE 475 SX. CIRC 150 SX
2 ND STAGE 1250 SX. DID NOT CIRC

PRODUCING INTERVAL: FUSSELMAN
POOL: TEAGUE; FUSSELMAN, NORTH
PERFS: 8848 TO 8878

PERFS 8884-8900 SQ W/ 100 SX



TEXACO EXPL & PROD INC.
B F HARRISON "B" #8
UNIT: D SEC 9 T 23 S R 37 E
510/FNL 660/FWL
TD: 5400

TABULAR DATA

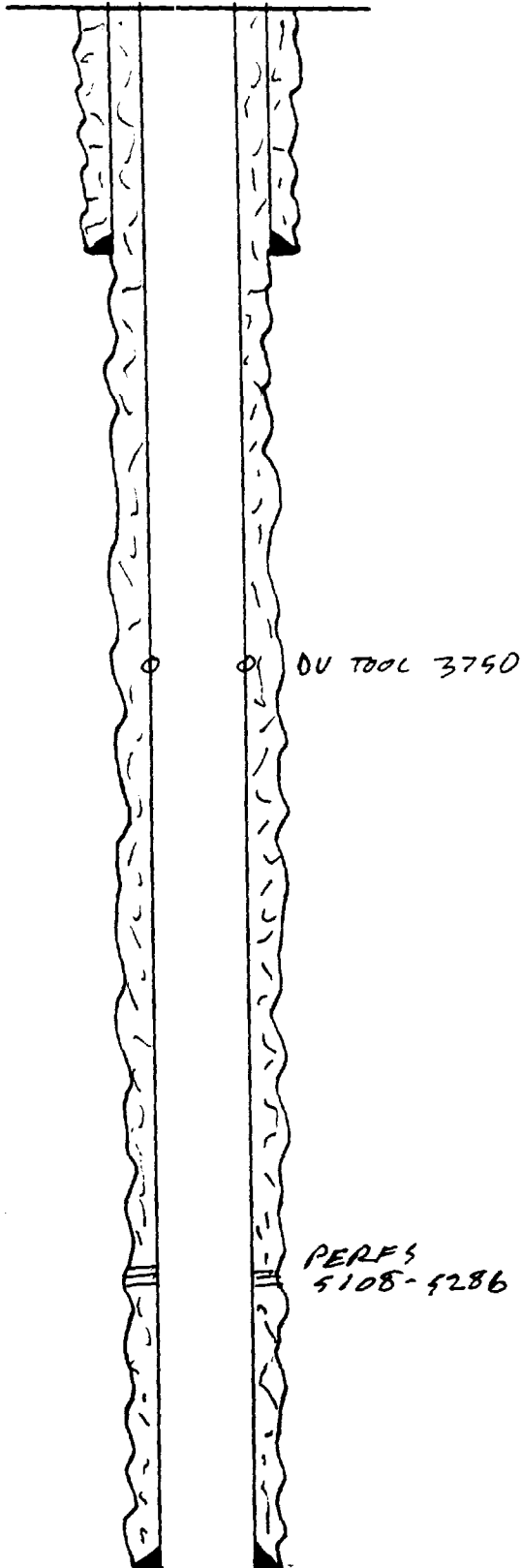
SURFACE CASING

SIZE: 11 3/4 SET AT: 1155 HOLE SIZE: 14 3/4
CEMENTED WITH 500
TOC: SURFACE DETERMINED BY: CIRC 15 SX

PRODUCTION CASING

SIZE: 5 1/2 SET AT: 5400 HOLE SIZE: *
CEMENTED WITH 2280
TOC: SURFACE DETERMINED BY: CIRC 160 SX
DV TOOL @: 3750
1 ST STAGE 350 SX. CIRC 58 SX
2 ND STAGE 1930 SX. CIRC 160 SX

PRODUCING INTERVAL: GLORIETA-UPPER PADDO
POOL: LEA UNDESIGNATED; GROUP 2
PERFS: 5108 TO 5286



TEXACO EXPL & PROD INC.
B F HARRISON "B" #9
UNIT: L SEC 9 T 23 S R 37 E
1840/FSL 670/FWL
TD: 6000

TABULAR DATA

SURFACE CASING

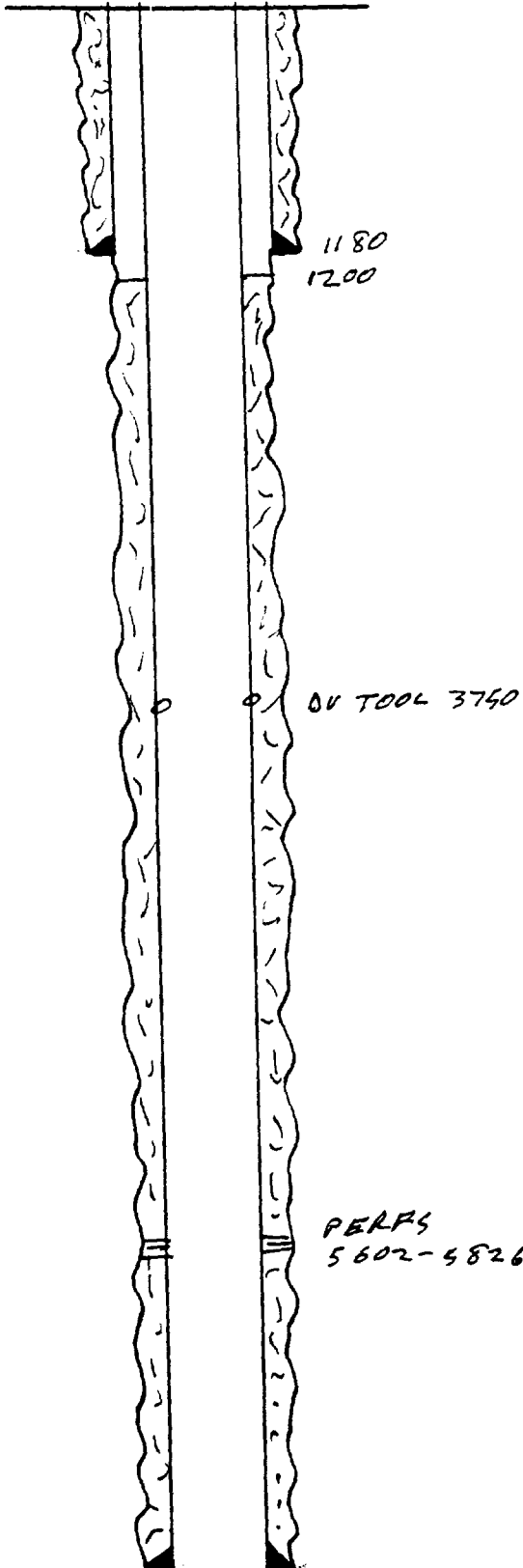
SIZE: 11 3/4 SET AT: 1180 HOLE SIZE: 14 3/4
CEMENTED WITH 500
TOC: SURFACE DETERMINED BY: 1" TO SURFACE

PRODUCTION CASING

SIZE: 5 1/2 SET AT: 6000 HOLE SIZE: *
CEMENTED WITH 3610
TOC: 1200 DETERMINED BY: TEMP SURVEY
DV TOOL @: 3750
1 ST STAGE 500 SX. DID NOT CIRC
2 ND STAGE 2910 SX. DID NOT CIRC

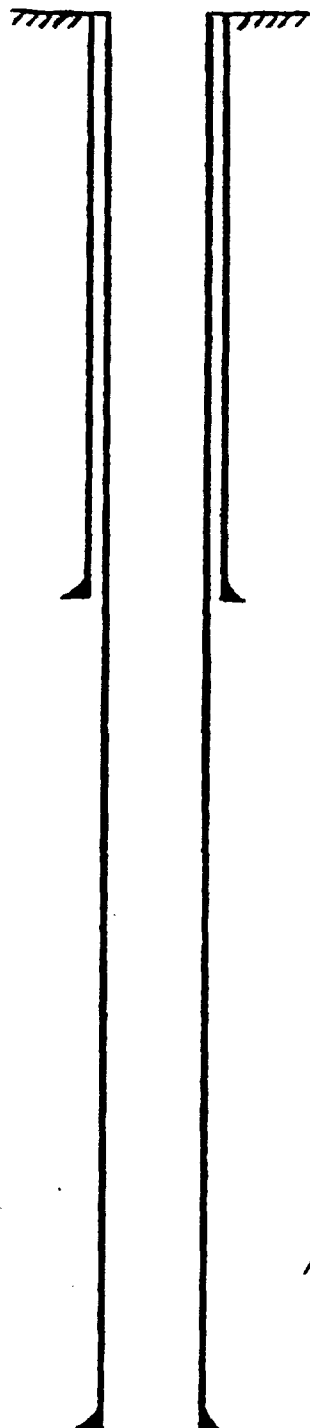
PRODUCING INTERVAL: LWR PADDOCK-BLINEBRY
POOL: TEAGUE;BLINEBRY, NORTH (GAS)
PERFS: 5602 TO 5826

SURFACE CASING DID NOT CIRC CEMENT
TOC @ 50' BY TEMP SURVEY 1" TO SURFACE
DRILLED 11" HOLE TO 3611
DRILLED 7 7/8 HOLE TO 6000



OPERATOR Texaco Expl. & Prod. Inc.		DATE 12-20-93	
LEASE B.F. HANERSON B	WELL NO. 10	LOCATION 1780' FWL & 660' FWL	

SEC 9-T23S-K37E
UNIT E



8 5/8 " casing set at 1180 ' with 650 sx of _____ cement
Hole size 12 1/4 " Cement Circulated

perft 5122 - 5132

5 1/2 " casing set at 5448 ' with 1325 sx of _____ cement
Total Depth 5448 ' Hole size 7 7/8 " Cement Circulated

TEXACO EXPL & PROD INC.
B F HARRISON "B" #5
UNIT: E SEC 9 T 23 S R 37 E
1950/FNL 560/FWL
TD: 10307

TABULAR DATA

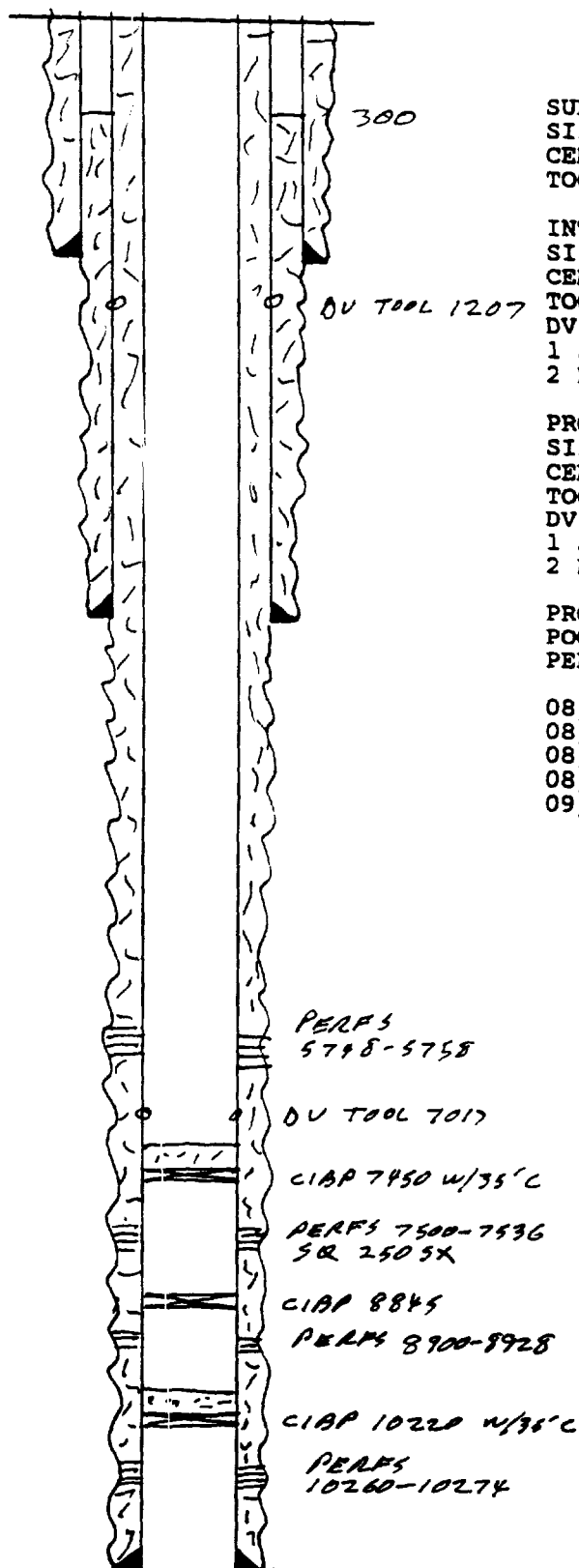
SURFACE CASING
SIZE: 13 3/8 SET AT: 1180 HOLE SIZE: 17 1/2
CEMENTED WITH 1100
TOC: SURFACE DETERMINED BY: CIRC 298 SX

INTERMEDIATE 1 CASING
SIZE: 9 5/8 SET AT: 3685 HOLE SIZE: 12 1/4
CEMENTED WITH 1450
TOC: 300 DETERMINED BY: TEMP SURVEY
DV TOOL @: 1207
1 ST STAGE 1150 SX. CIRC 85 SX
2 ND STAGE 300 SX. DID NOT CIRC

PRODUCTION CASING
SIZE: 5 1/2 SET AT: 10307 HOLE SIZE: 8 3/4
CEMENTED WITH 2800
TOC: SURFACE DETERMINED BY: CIRC 250 SX
DV TOOL @: 7017
1 ST STAGE 1150 SX. CIRC 175 SX
2 ND STAGE 1650 SX. CIRC 250 SX

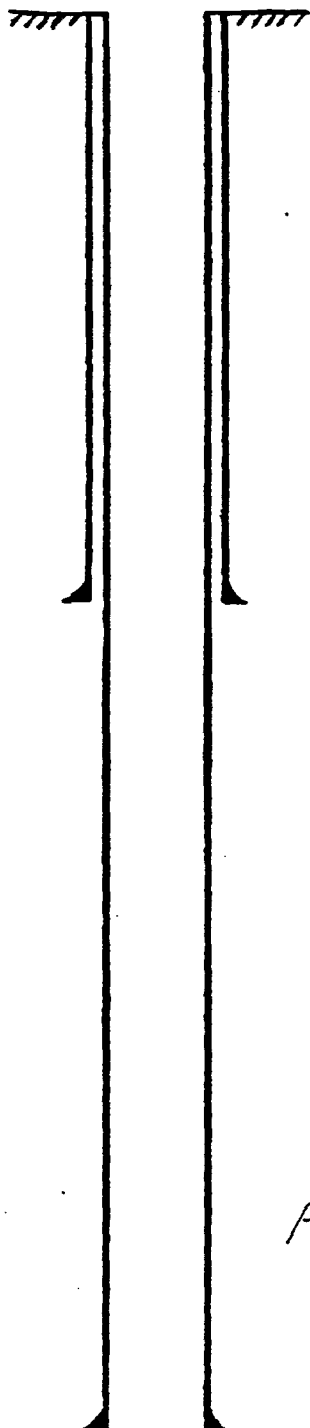
PRODUCING INTERVAL: BLINEBRY
POOL: TEAGUE; BLINEBRY, NORTH (GAS)
PERFS: 5748 TO 5758

08/12/91 PERF 10260-10274
08/24/91 SET CIBP @ 10220 W/ 35' CEMENT
08/27/91 PERF 8900-8928
08/30/91 SET CIBP @ 8845
09/12/91 SET CIBP @ 7450 W/35' CEMENT



OPERATOR TEXACO Expl. & Prod. Inc.		DATE 12-20-93	
LEASE BF Harrison B	WELL NO. 11	LOCATION 560' FNL + 2100' FWL	

SEC 9 - T23-S R37 E
Unit C



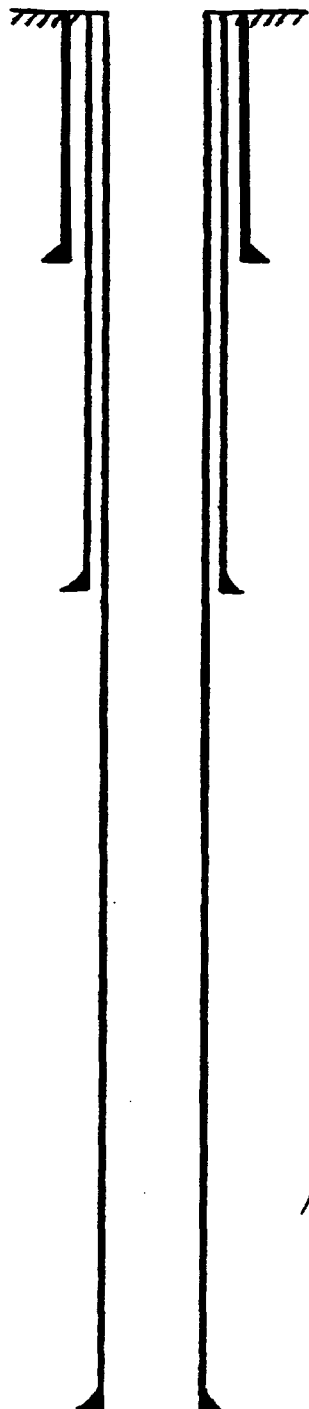
8 5/8 " casing set at 1180 ' with 650 sx of _____ cement
Hole size 12 1/4 " Cement Circulated

perf 5204 - 5212

5 1/2 " casing set at 5400 ' with 1220 sx of _____ cement
Total Depth 5400 ' Hole size 7 7/8 " TOC by TS
400'

OPERATOR Texaco Expl. & Prod. Inc.		DATE 12-20-93
LEASE B.F. Harrison B	WELL No. 12	LOCATION 760' FNL + 2100' FWL

SEC 9-T235-R37E
Unit C



11 3/4" casing set @ 1180' with 750 sxs cement
14 3/4" hole size cement Circulated

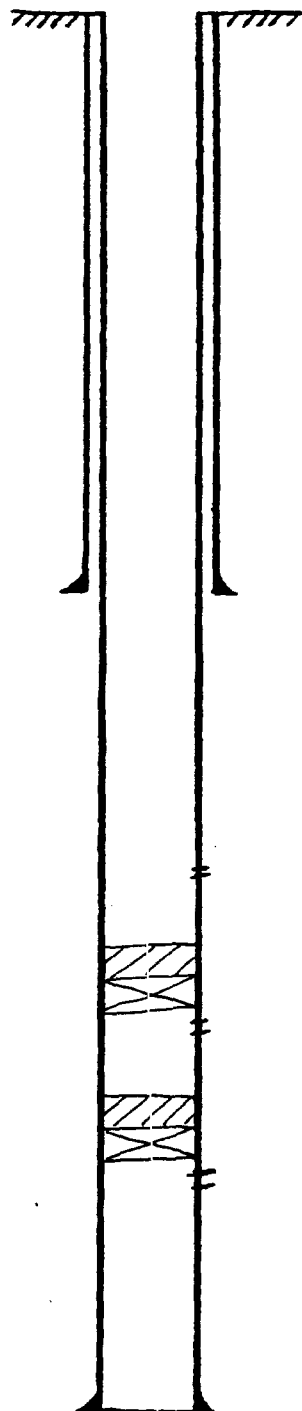
8 5/8" casing set at 3750' with 1775 sx of _____ cement
Hole size 11" Cement Circulated

perf 8811-8824

5 1/2" casing set at 8950' with 2255 sx of _____ cement
Total Depth 8950' Hole size 7 7/8" SV @ 7015
Cement Circulated

OPERATOR TEXACO EXPLORATION AND PRODUCTION INC.		DATE 12-20-93
LEASE HARRISON B. F. "B"	WELL NO. 18	LOCATION 990 FNL & 660 FWL

sec 9- T23S- R37E
Lea County New Mexico



BRADENHEAD SQUEEZE @ 750 PSI w/
250 SX

13 3/8 " casing set at 1180 ' with 650 sx of _____ cement
Hole size 12 1/4 " circulated

perf 3896 - 3994
CIPB @ 4650 + 30' cmt
perf 4686 - 4738
CIBP @ 4840' + 30' cmt
perf 4860 - 4874

5.5 " casing set at 5000 ' with 1225 sx of _____ cement
Total Depth 5000 ' Hole size 7 7/8 " TOC by TS @ 1300'

DV T
 DV T
 PE
 10150

SURFACE CASING

INTERMEDIATE 1 CASING

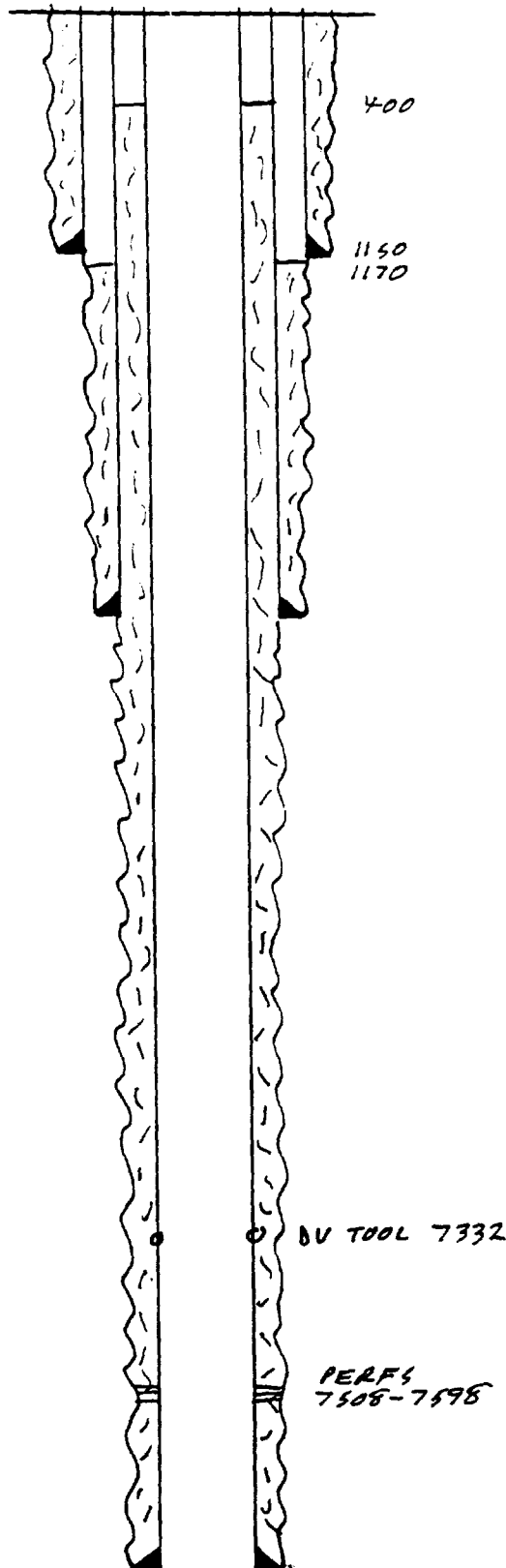
DV TOOL 1222

SIZE: 7 SET AT: 8690 HOLE SIZE: 8 3/4
CEMENTED WITH 1450
TOC: SURFACE DETERMINED BY: *
DV TOOL @: 6982
1 ST STAGE 495 SX. CIRC 154 SX
2 ND STAGE 955 SX. CIRC 60 SX

DV TOOL 6982

PERFS
10186-10238

TEXACO EXPL & PROD INC.
R R SIMS #2
UNIT: N SEC 4 T 23 S R 37 E
660/FSL 1650/FWL
TD: 8965



TABULAR DATA

SURFACE CASING
SIZE: 13 3/8 SET AT: 1150 HOLE SIZE: 17 1/2
CEMENTED WITH 900
TOC: SURFACE DETERMINED BY: CIRC 56 SX

INTERMEDIATE 1 CASING
SIZE: 9 5/8 SET AT: 3750 HOLE SIZE: 12 1/4
CEMENTED WITH 1715
TOC: ~~SURFACE~~ 1170 DETERMINED BY: EST.

PRODUCTION CASING
SIZE: 5 1/2 SET AT: 8780 HOLE SIZE: 7 7/8
CEMENTED WITH 2275
TOC: 400 DETERMINED BY: ESTIMATED
DV TOOL @: 7332
1 ST STAGE 425 SX. DID NOT CIRC
2 ND STAGE 600 SX. DID NOT CIRC

PRODUCING INTERVAL: DEVONIAN
POOL: TEAGUE;DEVONIAN, NORTHWEST
PERFS: 7508 TO 7598

* 9 5/8 CEMENTED WITH 1315 SX
DID NOT CIRCULATE, CBL TOC @ 1875
SQUEEZED BACK SIDE 400 SX
** 5 1/2 CASING
SQUEEZED ANNULUS WITH 1250 SX
EST TOC 400'

OPERATOR Texaco Exploration + Production Inc.		DATE 12-20-93
LEASE R. R. Sims A	WELL NO. 3	LOCATION 380' FSL + 2175' FWL

SEC 4 T23S - R37E
Unit N

11 3/4" Casing set @ 1190' w/ 750 sx of cement
14 3/4" hole Cement Circulated

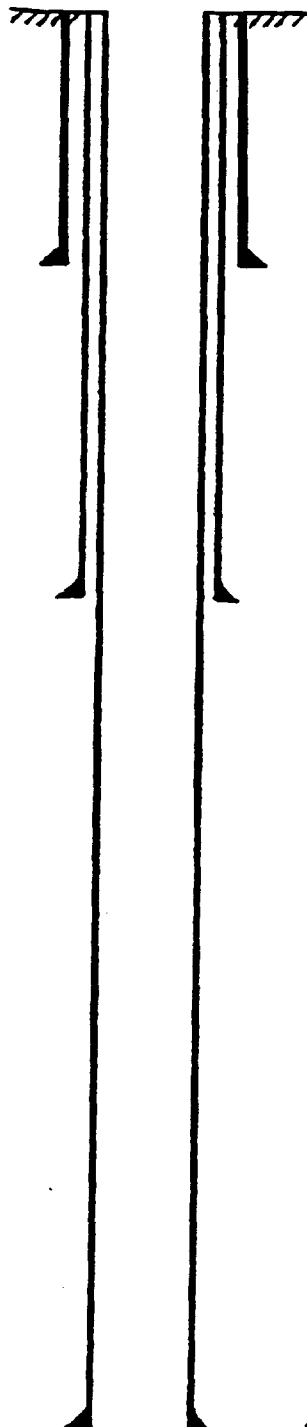
8 5/8" casing set at 3750' with 1675 sx of cement
Hole size 11" TOL by TS @ 700'

per f 8784-8824, 8832, 8836

5 1/2" casing set at 8950' with 1900 sx of cement
Total Depth 8950' Hole size 7 7/8" DV @ 6980'
Cement Circulated
on second stage

OPERATOR Texaco Expl. + Prod. Inc.		DATE 12-20-93	
LEASE R.R. Sims A	WELL No. 4	LOCATION 330' FSL + 960' FWL	

Sec 4 - T23S - R37E
unit m



11 3/4" casing set @ 1215' with 750 sxs cmt
14 3/4" hole size. Cement Circulated

8 5/8" casing set at 3750' with 1825 sx of _____ cement
Hole size 11" TOC 1600' By TS

perts 7440 - 7527

5 1/2" casing set at 7700' with 1630 sx of _____ cement
Total Depth 7700' Hole size 7 7/8" DV @ 6975'
Cement Circulated

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					
1a. Type of Work: DRILL <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				7. Lease Name or Unit Agreement Name R. R. SIMS 'A'	
b. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. Well No. 5	
2. Name of Operator TEXACO EXPLORATION AND PRODUCTION INC.				9. Pool name or Wildcat SW TEAGUE, GLORIETA\UP. PADDOCK	
3. Address of Operator P. O. Box 3109, Midland, Texas 79702					
4. Well Location Unit Letter <u>N</u> : <u>450</u> Feet From The <u>SOUTH</u> Line and <u>1800</u> Feet From The <u>WEST</u> Line Section <u>4</u> Township <u>23-SOUTH</u> Range <u>37-EAST</u> NMPM LEA County					
10. Proposed Depth 5450'		11. Formation GLORIETA/PADDOCK		12. Rotary or C.T. ROTARY	
13. Elevations (Show whether DF, RT, GR, etc.) GR-3319'		14. Kind & Status Plug. Bond BLANKET		15. Drilling Contractor	
16. Approx. Date Work will start SEPTEMBER 1, 1993					
17. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
20	16	65#	40'	REDI-MIX	SURFACE
12 1/4	8 5/8	24#	1180'	650	SURFACE
7 7/8	5 1/2	15.5#	5450'	1325	SURFACE

CEMENTING PROGRAM: CONDUCTOR - READYMIX.

SURFACE CASING: 450 SACKS CLASS C w/ 4% GEL, 2% Cacl₂ (13.5ppg, 1.74cf/s, 9.1gw/s). F/B 200 SACKS CLASS C w/ 2% Cacl₂ (14.8ppg, 1.34cf/s, 6.3gw/s).

PRODUCTION CASING: 825 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 500 SACKS CLASS H (15.6ppg, 1.18cf/s, 5.2gw/s).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE C. P. Basham / C.N.H. TITLE DRILLING OPERATIONS MANAGER DATE 08-09-93

TYPE OR PRINT NAME C. P. BASHAM

TELEPHONE NO. 915-688-462

(This space for State Use)

Orig. Signed by
Paul Kautz
Geologist

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval AUG 11 1993
(Date) Unless Drilling Underway.

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)

30-725-32228

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:

OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator

TEXACO EXPLORATION AND PRODUCTION INC.

7. Lease Name or Unit Agreement Name

F. B. DAVIS

3. Address of Operator

P. O. Box 3109, Midland, Texas 79702

8. Well No.

1

9. Pool name or Wildcat

*TEAGUE NORTHWEST, DEVONIAN

4. Well Location

Unit Letter A : 660 Feet From The NORTH Line and 500 Feet From The EAST Line

Section 8 Township 23-SOUTH Range 37-EAST NMPM LEA County

10. Proposed Depth

7700'

11. Formation

*DEVONIAN

12. Rotary or C.T.

ROTARY

13. Elevations (Show whether DF, RT, GR, etc.)

GR-3323'

14. Kind & Status Plug. Bond

BLANKET

15. Drilling Contractor

16. Approx. Date Work will start

OCTOBER 1, 1993

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
20	16	65#	40'	REDI-MIX	SURFACE
14 3/4	11 3/4	42#	1180'	750	SURFACE
11	8 5/8	32#	3750'	1725	SURFACE
7 7/8	5 1/2	15.5#	7700'	1770	SURFACE

*SECONDARY FIELDS: TEAGUE NORTH, BLINEBRY, SW TEAGUE GLORIETA/UPPER PADDOCK

CEMENTING PROGRAM: CONDUCTOR - READYMIX.

SURFACE CASING: 550 SACKS CLASS C w/ 4% GEL, 2% CaCl₂ (13.5ppg, 1.74cf/s, 9.1gw/s). F/B 200 SACKS CLASS C w/ 2% CaCl₂ (14.8ppg, 1.32cf/s, 6.3gw/s).

INTERMEDIATE CASING: 900 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 825 SACKS CLASS H w/ 2% CaCl₂ (15.6ppg, 1.19cf/s, 5.2gw/s).

PRODUCTION CASING: 1st STG: 330 SACKS CLASS H w/ 1/4# FLOCELE, .6% D60 FL (15.6ppg, 1.19cf/s, 5.2gw/s). DV TOOL @ 7000': 2nd STG. - 500 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 940 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT, 1/4# FLOCELE (14.2ppg, 1.35cf/s, 6.3gw/s).

OXY OPERATES A WELL IN THIS 1/4 1/4 SECTION AND HAS BEEN FURNISHED A COPY OF THIS APPLICATION.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE C. P. Basham / CWH TITLE DRILLING OPERATIONS MANAGER DATE 09-08-93

TYPE OR PRINT NAME C. P. BASHAM

TELEPHONE NO. 915-688-4620

(This space for State Use)

Orig. Signature
Paul Kautz
Geologist

APPROVED BY _____ TITLE _____ DATE SEP 10 1993

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells) 31-826-32227
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					
1a. Type of Work: DRILL <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				7. Lease Name or Unit Agreement Name F. B. DAVIS	
b. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>					
2. Name of Operator TEXACO EXPLORATION AND PRODUCTION INC.				8. Well No. 2	
3. Address of Operator P. O. Box 3109, Midland, Texas 79702				9. Pool name or Wildcat SW TEAGUE, GLORIETA\UP. PADDOCK	
4. Well Location Unit Letter A : 510 Feet From The NORTH Line and 500 Feet From The EAST Line Section 8 Township 23-SOUTH Range 37-EAST NMPM LEA County					
		10. Proposed Depth 5400'		11. Formation UPPER GLORIETA/PADDOCK	
				12. Rotary or C.T. ROTARY	
13. Elevations (Show whether DP, RT, GR, etc.) GR-3323'		14. Kind & Status Plug. Bond BLANKET		15. Drilling Contractor	
				16. Approx. Date Work will start OCTOBER 1, 1993	
17. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2	13 3/8	48#	40'	REDI-MIX	SURFACE
12 1/4	8 5/8	24#	1180'	650	SURFACE
7 7/8	5 1/2	15.5#	5400'	1325	SURFACE

CEMENTING PROGRAM: CONDUCTOR - READYMIX.

SURFACE CASING: 450 SACKS CLASS C w/ 4% GEL, 2% Cacl₂ (13.5ppg, 1.74cf/s, 9.1gw/s). F/B 200 SACKS CLASS C w/ 2% Cacl₂ (14.8ppg, 1.34cf/s, 6.3gw/s).

PRODUCTION CASING: 825 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 500 SACKS CLASS H (15.6ppg, 1.18cf/s, 5.2gw/s).

OXY OPERATES A WELL IN THIS 1/4 1/4 SECTION AND HAS BEEN FURNISHED A COPY OF THIS APPLICATION.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE C. P. Basham / cwn TITLE DRILLING OPERATIONS MANAGER DATE 09-08-93

TYPE OR PRINT NAME C. P. BASHAM

TELEPHONE NO. 915-688-462

(This space for State Use)

Orig. Signed by
Paul Kautz
Geologist

APPROVED BY _____ TITLE _____ DATE SEP 10 1993

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval

Submit to Appropriate
District Office
State Lease -- 6 copies
Fee Lease -- 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:

OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator

TEXACO EXPLORATION AND PRODUCTION INC.

8. Well No.

14

3. Address of Operator

P. O. Box 3109, Midland, Texas 79702

9. Pool name or Wildcat

SW TEAGUE, GLORIETA/UP. PADDOCK

4. Well Location

Unit Letter F : 1800 Feet From The NORTH Line and 1650 Feet From The WEST Line

Section 9 Township 23-SOUTH Range 37-EAST NMPM LEA County

10. Proposed Depth

5450'

11. Formation

Upper GLORIETA/PADDOCK

12. Rotary or C.T.

ROTARY

13. Elevations (Show whether D/F, RT, GR, etc.)

GR-3314'

14. Kind & Status Plug. Bond

BLANKET

15. Drilling Contractor

16. Approx. Date Work will start

SEPTEMBER 1, 1993

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
20	16	65#	40'	REDI-MIX	SURFACE
12 1/4	8 5/8	24#	1180'	650	SURFACE
7 7/8	5 1/2	15.5#	5450'	1325	SURFACE

CEMENTING PROGRAM: CONDUCTOR - READY MIX.

SURFACE CASING: 450 SACKS CLASS C w/ 4% GEL, 2% CaCl₂ (13.5ppg, 1.74cf/s, 9.1gw/s). F/B 200 SACKS CLASS C w/ 2% CaCl₂ (14.8ppg, 1.34cf/s, 6.3gw/s).

PRODUCTION CASING: 825 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 500 SACKS CLASS H (15.8ppg, 1.18cf/s, 5.2gw/s).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE C. P. Basham /cwH TITLE DRILLING OPERATIONS MANAGER DATE 08-09-93

TYPE OR PRINT NAME C. P. BASHAM

TELEPHONE NO. 915-688-4620

(This space for State Use)

Orig. signed by
Paul Kautz
Geologist

APPROVED BY _____ TITLE _____ DATE AUG 11 1993

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

Submit to Appropriate
District Office
State Lease -- 6 copies
Fee Lease -- 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells) <u>21-124-32223</u>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK	
1a. Type of Work: DRILL <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> b. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>	7. Lease Name or Unit Agreement Name G. W. SIMS
2. Name of Operator TEXACO EXPLORATION AND PRODUCTION INC.	8. Well No. 1
3. Address of Operator P. O. Box 3109, Midland, Texas 79702	9. Pool name or Wildcat *TEAGUE NORTHWEST, DEVONIAN
4. Well Location Unit Letter <u>B</u> : <u>510</u> Feet From The <u>NORTH</u> Line and <u>2230</u> Feet From The <u>EAST</u> Line Section <u>9</u> Township <u>23-SOUTH</u> Range <u>37-EAST</u> NMPM LEA County	
10. Proposed Depth 7750'	
11. Formation *DEVONIAN	
12. Rotary or C.T. ROTARY	
13. Elevations (Show whether DF, RT, GR, etc.) GR-3310'	14. Kind & Status Plug. Bond BLANKET
15. Drilling Contractor	
16. Approx. Date Work will start OCTOBER 1, 1993	

17. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
20	16	65#	40'	REDI-MIX	SURFACE
14 3/4	11 3/4	42#	1180'	750	SURFACE
11	8 5/8	32#	3750'	1725	SURFACE
7 7/8	5 1/2	15.5#	7750'	1790	SURFACE

*SECONDARY FIELDS: TEAGUE NORTH, BLINEBRY, SW TEAGUE GLORIETA/UPPER PADDOCK

CEMENTING PROGRAM: CONDUCTOR - READYMIX.

SURFACE CASING: 550 SACKS CLASS C w/ 4% GEL, 2% CaCl₂ (13.5ppg, 1.74cf/s, 9.1gw/s). F/B 200 SACKS CLASS C w/ 2% CaCl₂ (14.8ppg, 1.32cf/s, 6.3gw/s).

INTERMEDIATE CASING: 900 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 825 SACKS CLASS H w/ 2% CaCl₂ (15.6ppg, 1.19cf/s, 5.2gw/s).

PRODUCTION CASING: 1st STG: 350 SACKS CLASS H w/ 1/4# FLOCELE, .6% D60 FL (15.6ppg, 1.19cf/s, 5.2gw/s). DV TOOL @ 7000': 2nd STG. - 500 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 940 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT, 1/4# FLOCELE (14.2ppg, 1.35cf/s, 6.3gw/s).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE C.P. Basham / cwb TITLE DRILLING OPERATIONS MANAGER DATE 09-08-93

TYPE OR PRINT NAME C. P. BASHAM

TELEPHONE NO. 915-688-4620

(This space for State Use)

Orig. Signed by
Paul Kautz
Geologist

APPROVED BY _____ TITLE _____ DATE SEP 10 1993

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval Date Unless Drilling Underway.

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)

31-1-25-32224

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

G. W. SIMS

2. Name of Operator

TEXACO EXPLORATION AND PRODUCTION INC.

8. Well No.

2

3. Address of Operator

P. O. Box 3109, Midland, Texas 79702

9. Pool name or Wildcat

SW TEAGUE, GLORIETA\UP. PADDOCK

4. Well Location

Unit Letter B : 510 Feet From The NORTH Line and 2080 Feet From The EAST Line

Section 9

Township 23-SOUTH

Range 37-EAST

NMPM

LEA

County

10. Proposed Depth

5500'

11. Formation

UPPER
GLORIETA/PADDOCK

12. Rotary or C.T.

ROTARY

13. Elevations (Show whether (DF, RT, GR, etc.)

GR-3309'

14. Kind & Status Plug. Bond

BLANKET

15. Drilling Contractor

16. Approx. Date Work will start

OCTOBER 1, 1993

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2	13 3/8	48#	40'	REDI-MIX	SURFACE
12 1/4	8 5/8	24#	1180'	650	SURFACE
7 7/8	5 1/2	15.5#	5500'	1325	SURFACE

CEMENTING PROGRAM: CONDUCTOR - READYMIX.

SURFACE CASING: 450 SACKS CLASS C w/ 4% GEL, 2% CaCl₂ (13.5ppg, 1.74cf/s, 9.1gw/s). F/B 200 SACKS CLASS C w/ 2% CaCl₂ (14.8ppg, 1.34cf/s, 6.3gw/s).

PRODUCTION CASING: 825 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 500 SACKS CLASS H (15.6ppg, 1.18cf/s, 5.2gw/s).

THERE ARE NO OTHER OPERATORS IN THIS 1/4 1/4 SECTION.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE C. P. Basham / cwn TITLE DRILLING OPERATIONS MANAGER DATE 09-08-93

TYPE OR PRINT NAME C. P. BASHAM

TELEPHONE NO. 915-688-4621

(This space for State Use)

Orig. Signed by
Paul Kautz
Geologist

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway

SEP 10 1993



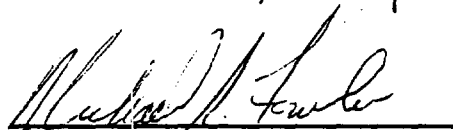
PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TEXAS 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NEW MEXICO 88240


CHEMICAL ANALYSIS OF WATER

Company : Peak Consulting Services
City, St.:
Proj. Name: Water Well & Windmill
Location : Eunice - Harrison Area
Sample 1 : Windmill S16 T23 R37E
Sample 2 : Water Well S8 T23 R37E
Sample 3 :
Sample 4 :

Date : 8/9/93
Lab #: H1317

PARAMETER	RESULT (mg/L)			
	SAMPLE			
	1	2	3	4
pH	7.25	9.12		
Hardness (CaCO ₃)	456	212		
Calcium (CaCO ₃)	340	92		
Magnesium (as CaCO ₃)	116	120		
Sulfate (SO ₄ ⁻)	180.5	166.0		
Chloride (Cl ⁻)	180	88		
TDS	988	620		
PhenoAlkinity (p-Alk)	0	48		
Total Alkalinity	220	172		


Michael R. Fowler


Date 8/9/93

0 147 199 147

P 147 199 147

Z 004 857 258



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to Cxy USA Inc	
Street and No. PO Box 50250	
P.O., State and ZIP Code Midland Tx 79710	
Postage	\$ 1.44
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	44
TOTAL Postage & Fees	\$ 2.44
Postmark or Date	

PS Form 3800, June 1991



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to Bynd Salsman	
Street and No. P.O. Box 184	
P.O., State and ZIP Code Center Point Tx 78010	
Postage	\$ 1.44
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	44
TOTAL Postage & Fees	\$ 2.44
Postmark or Date	

PS Form 3800, June 1991



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to Simedon Oil Corp	
Street and No. 11111 N. 1st St. Ste 240E	
P.O., State and ZIP Code Midland Tx 79705	
Postage	\$ 1.44
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	44
TOTAL Postage & Fees	\$ 2.44
Postmark or Date	

Z 004 857 260

Z 004 857 259



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to ALCO Oil & Gas Corp	
Street and No. PO Box 1610	
P.O., State and ZIP Code Midland Tx 79702	
Postage	\$ 1.44
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	44
TOTAL Postage & Fees	\$ 2.44
Postmark or Date	

PS Form 3800, March 1993



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to Chelkova USA Inc	
Street and No. PO Box 1150	
P.O., State and ZIP Code Midland Tx 79702	
Postage	\$ 1.44
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	44
TOTAL Postage & Fees	\$ 2.44
Postmark or Date	

PS Form 3800, March 1993

OIL CONSERVATION DIVISION
REC-147
1994 FEB 21 AM 8 35
P.O. BOX 636
HOBBS, NEW MEXICO 88240
OFFICE (505) 392-1915

PEAK
CONSULTING SERVICES
ENVIRONMENTAL,
GEOLOGICAL & REGULATORY
SPECIALISTS



PCS

February 16, 1994

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

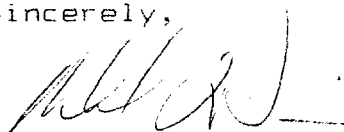
Re: Proof of Publication
Harrison B. F. 'B' 15 SWD

Dear David:

Please find enclosed the proof of publication for the above captioned project. I have not received any notice of objection to this application as of this date.

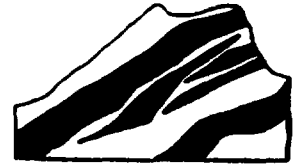
If you have any questions or if I can be of any assistance, please let me know. Thank you for your time and consideration.

Sincerely,



Michael L. Pierce
Peak Consulting Services

PEAK
CONSULTING SERVICES
ENVIRONMENTAL,
GEOLOGICAL & REGULATORY
SPECIALISTS



PCS

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

March 21, 1994

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

Re: Proof of Publication
Harrison B. F. 'B' 16 SWD

Dear Ben:

Please find enclosed the proof of publication for the above captioned project.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael L. Pierce'.

Michael L. Pierce
Peak Consulting Services

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

General Manager

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 _____

one weeks.

Beginning with the issue dated

February 11, 19 94

and ending with the issue dated

February 11, 19 94

Kathi Bearden

General Manager

Sworn and subscribed to before

me this 14 day of

February, 19 94

Charlene Perrin

Notary Public.

My Commission expires

March 15, 1997

(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.

OIL CONSERVATION DIVISION
RECEIVED

'94 MAR 23 AM 8 39

LEGAL NOTICE

February 11, 1994

TEXACO EXPLORATION AND PRODUCTION, 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 Harrison B.F. 'B' No. 16 SWD located at 996' FNL and 531' FWL of Sec. 9- T23S - R37E, unit D, Lea County New Mexico. The injection interval is the San Andres at a depth of approximately 4200' - 5000'. The maximum injection rate will be 5000 bbls/day, with 0 pressure.

Interested parties should 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 ap-

plication should be directed to Peak Consulting Services Attn. M. L. Pierce, P.O. Box 636, Hobbs, New Mexico 88240, (505) 392-1915.



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

RECEIVED
'94 FEB 23 AM 8 39

BRUCE KING
GOVERNOR

2-23-94

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC _____
DHC _____
NSL _____
NSP _____
SWD X _____
WFX _____
PMX _____

SWD-53

Gentlemen:

I have examined the application for the:

Texaco Expl & Prod Inc B.F. Harrison B #16-D Q-23-37
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed