

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: TEXACO Well: B.F. HARRISON "B" No. 18

Contact: MIKE PIERCE Title: CONSULTANT Phone: 392-1915

DATE IN 8.13.93 RELEASE DATE 8.27.93 DATE OUT 9.8.93

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

11 Total # of AOR 0 # of Plugged Wells
☒ Tabulation Complete ☒ Schematics of P & A's
☒ Cement Tops Adequate ☒ AOR Repair Required

INJECTION INFORMATION

Injection Formation(s) SAN ANDRES

Source of Water TEXACO'S ADJACENT LEASES Compatible ☒

PROOF OF NOTICE

☒ Copy of Legal Notice ☒ Information Printed Correctly
☒ Correct Operators ☒ Copies of Certified Mail Receipts
☒ Objection Received ☒ Set to Hearing _____ Date

NOTES: API-30-025-32159

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____	Date	_____	Nature of Discussion	_____
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	_____

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

PEAK
CONSULTING SERVICES
ENVIRONMENTAL,
GEOLOGICAL & REGULATORY
SPECIALISTS

Oil Conservation Division
REC'D

1993 AUG 10 AM 9 10



PCS

August 10, 1993

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

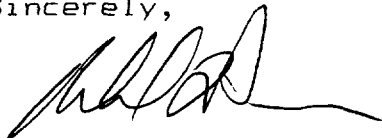
Re: Texaco Exploration and Production Inc.
Harrison B. F. 'B' No. 18
Injection Application
Sec. 9 - T23S - R37E
Lea County, New Mexico

Dear Ben:

Please find enclosed two copies of Texaco Producing Inc. application for injection. We propose to drill this well as a San Andres test. In the event that the San Andres is non-productive we wish to convert it to a salt water disposal well.

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

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 Blvd. 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: 8-10-93

- * 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.

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B.F. Harrison 'B' No. 18
990' FNL and 660' FWL
Sec. 9 - T23S - R37E
Lea County, New Mexico

FORM C - 108 cont.

Part III. A

- 1.) B.F. Harrison 'B' No. 18
990' FNL and 660' FWL
Sec. 9 - T23S - R37E
Unit D
Lea County, New Mexico
- 2.) See attached wellbore schematic.
- 3.) Propose to run approximately 4000' 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 formation is the San Andres, and there is no San Andres production in the immediate area.
- 2.) The injection interval will be cased at approximately 3970' to 5000'.
- 3.) This well will be drilled as a producer. In the event that commercial quantities of oil and or gas cannot be obtained from the San Andres, this well will be converted into an salt water disposal well.
- 4.) See wellbore schematic
- 5.) There is production from above and below the San Andres in this area. The Langlie Mattix 7-Rivers-Queen - Grayburg at approximately 2800' to 3800', 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 not productive within one mile of the Harrison B. F. 'B' No. 18 well.

Part VIII

The injection interval is the 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 3970'. 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. 18 location. The analysis for these wells are attached.

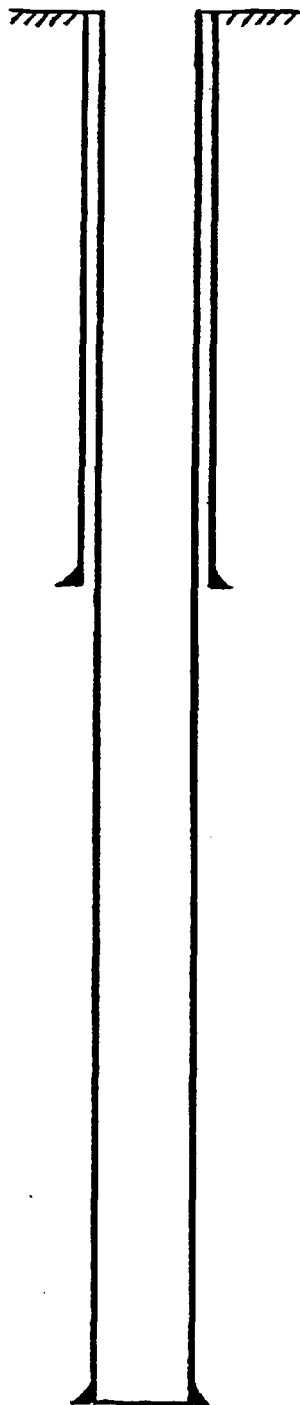
Part XII

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.

OPERATOR TEXACO EXPLORATION AND PRODUCTION INC.		DATE 8-10-93
LEASE HARRISON B. F. "B"	WELL No. 18	LOCATION 990 FNL & 660 FWL

sec 9- T23S- R37E
Lea County New Mexico

PROPOSED CONFIGURATION



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

5.5 " casing set at 5000 ' with 1225 sx of _____ cement
Total Depth 5000 ' Hole size 7 7/8 " Sufficient to
Circulate

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

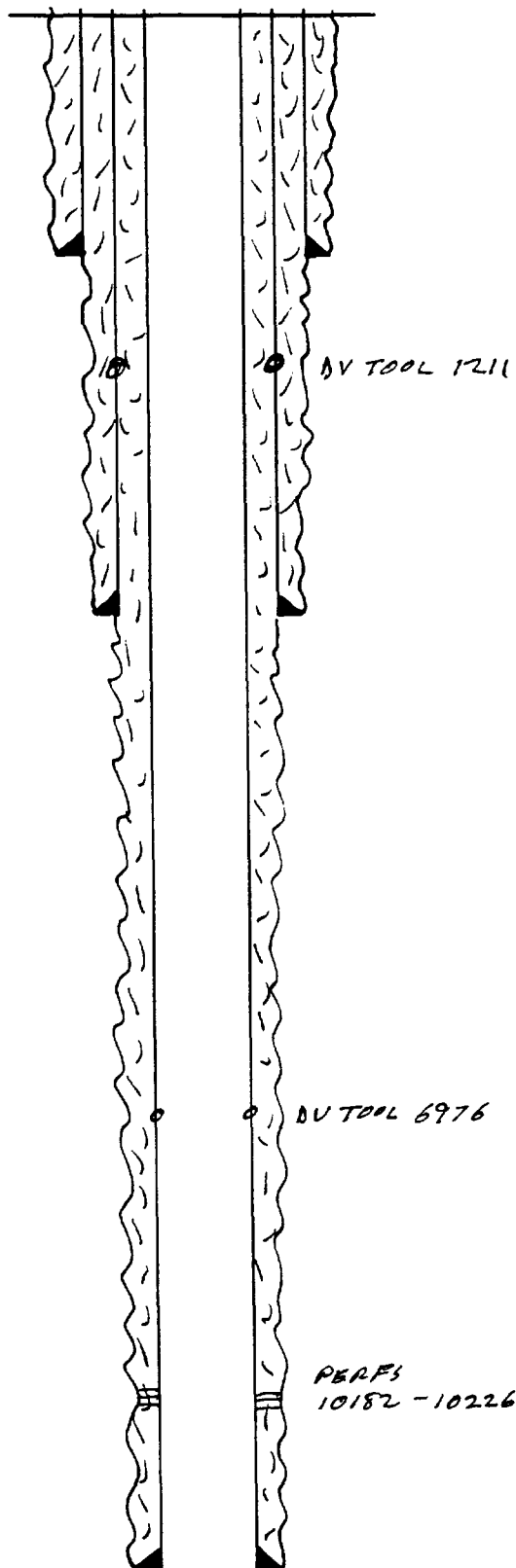
INTERMEDIATE 1 CASING

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

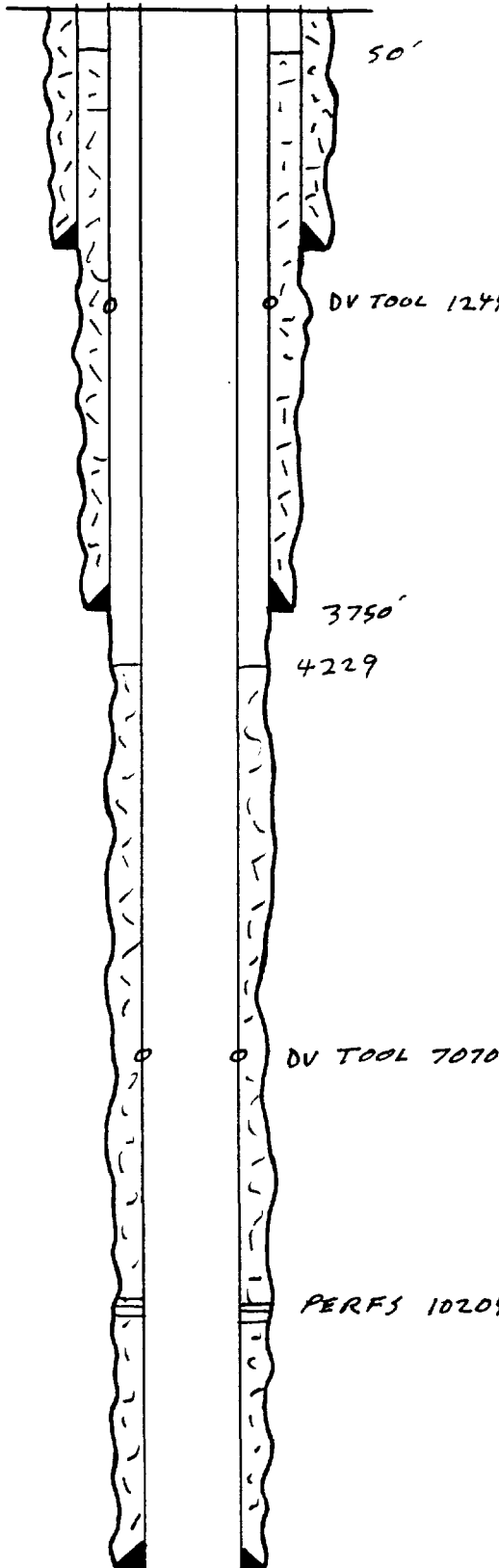
1 ST STAGE 300 SX.

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

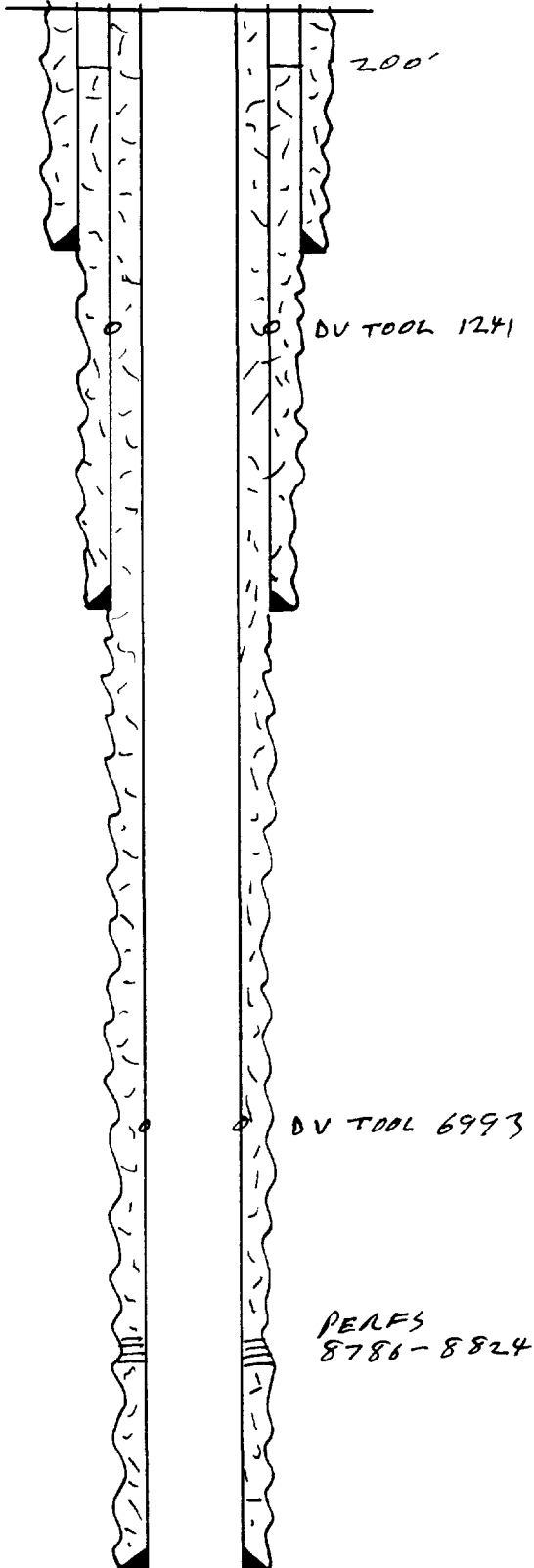
INTERMEDIATE 1 CASING

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" #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

PERFS
5748-5758

DV TOOL 7017

CIBP 7450 W/35' C

PERFS 7500-7536
SQ 250 SX

CIBP 8845

PERFS 8900-8928

CIBP 10220 W/35' C

PERFS
10260-10274

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

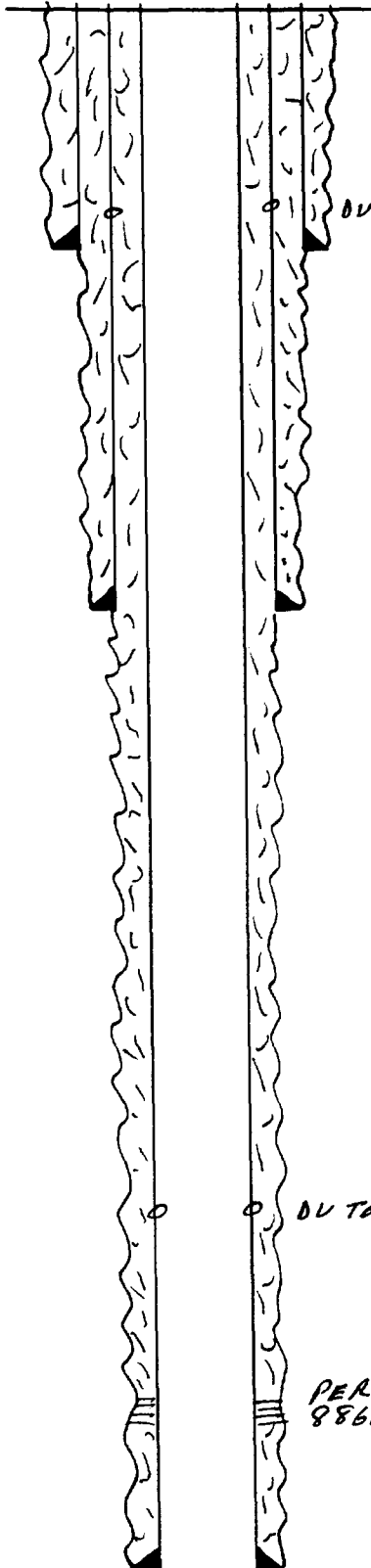
INTERMEDIATE 1 CASING

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



DV TOOL 1089

DV TOOL 7007

PERFS
8868-8870

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

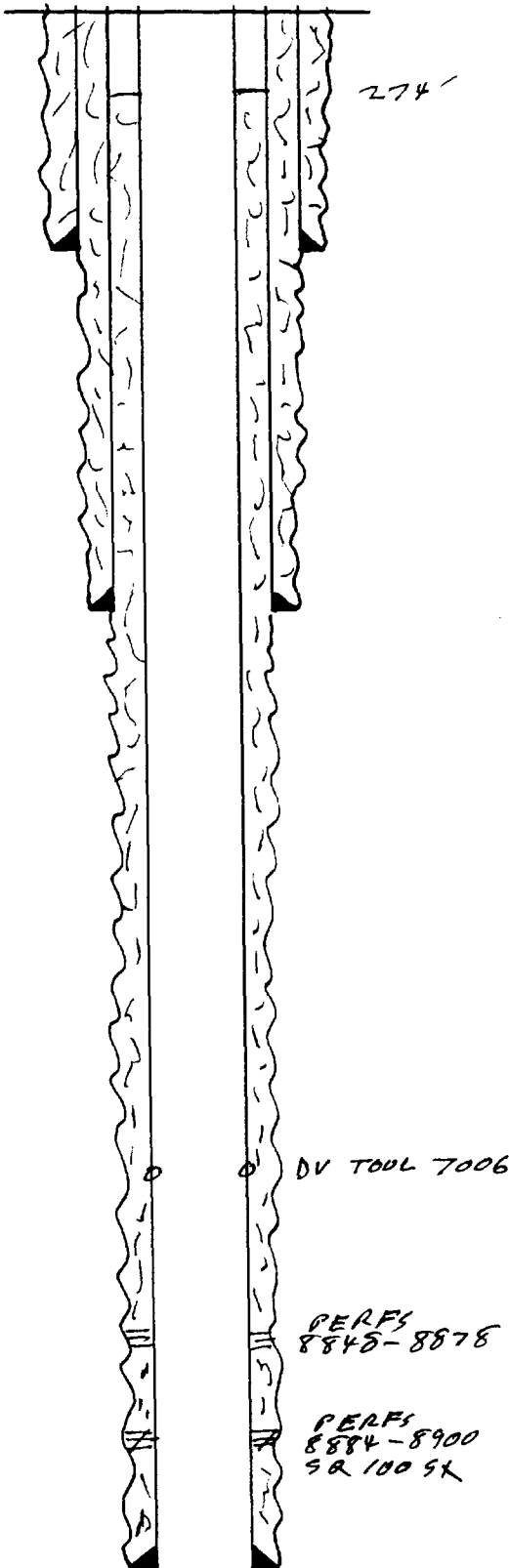
SURFACE CASING
SIZE: 13 3/8 SET AT: 1180 HOLE SIZE: 17 1/2
CEMENTED WITH 900
TOC: SURFACE DETERMINED BY: CIRC 134 SX

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

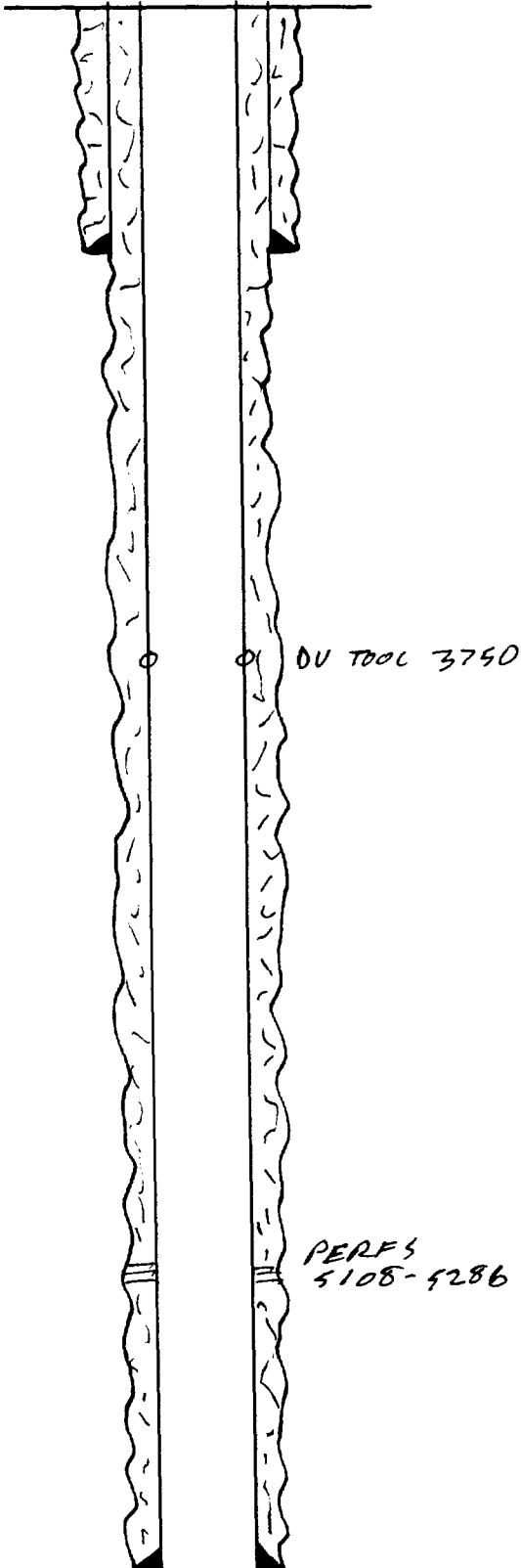
SURFACE CASING

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)

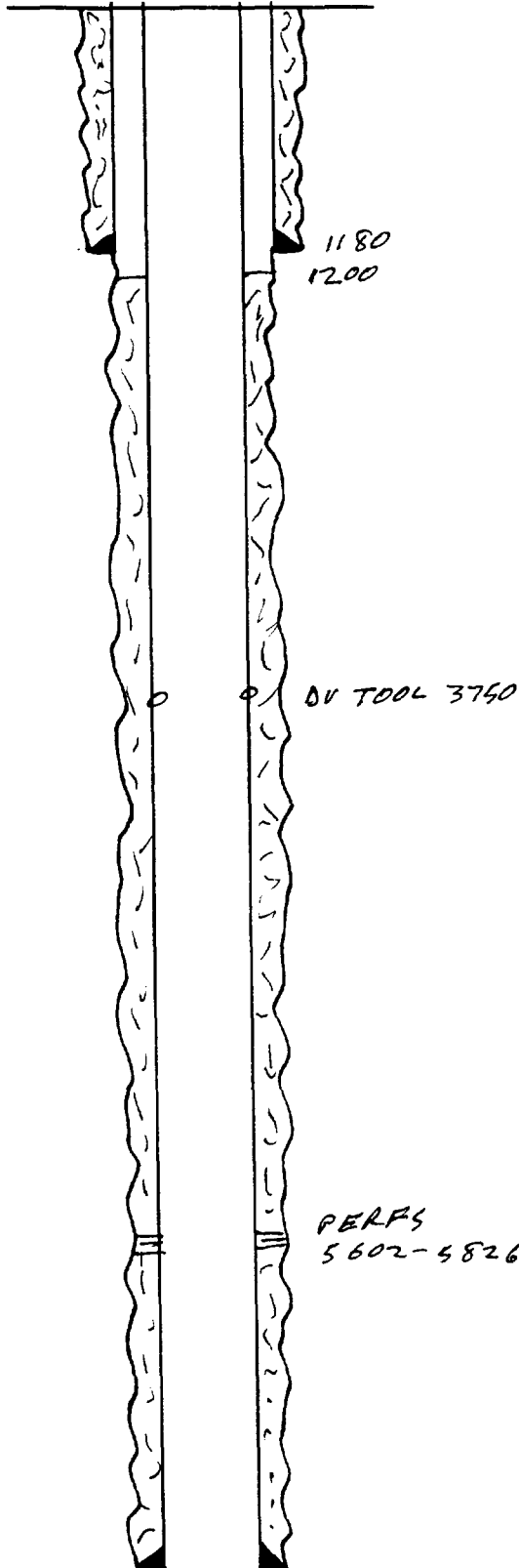
PERFS: 5602 TO 5826

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



TEXACO EXPL & PROD INC.

R R SIMS #1

UNIT: N SEC 4 T 23 S R 37 E

330/FSL 2308/FWL

TD: 10254

TABULAR DATA

SURFACE CASING

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

CEMENTED WITH 1400

TOC: SURFACE DETERMINED BY: CIRC 400 SX

INTERMEDIATE 1 CASING

SIZE: 9 5/8 SET AT: 3800 HOLE SIZE: 12 1/4

CEMENTED WITH 1750

TOC: SURFACE DETERMINED BY: CIRC 54 SX

DV TOOL @: 1222

IN ONE STAGE 1750 SX. CIRC 54 SX

PRODUCTION CASING

SIZE: 7 SET AT: 8690 HOLE SIZE: 8 3/4

CEMENTED WITH 1450

TOC: SURFACE DETERMINED BY: *

DV TOOL @: 6982

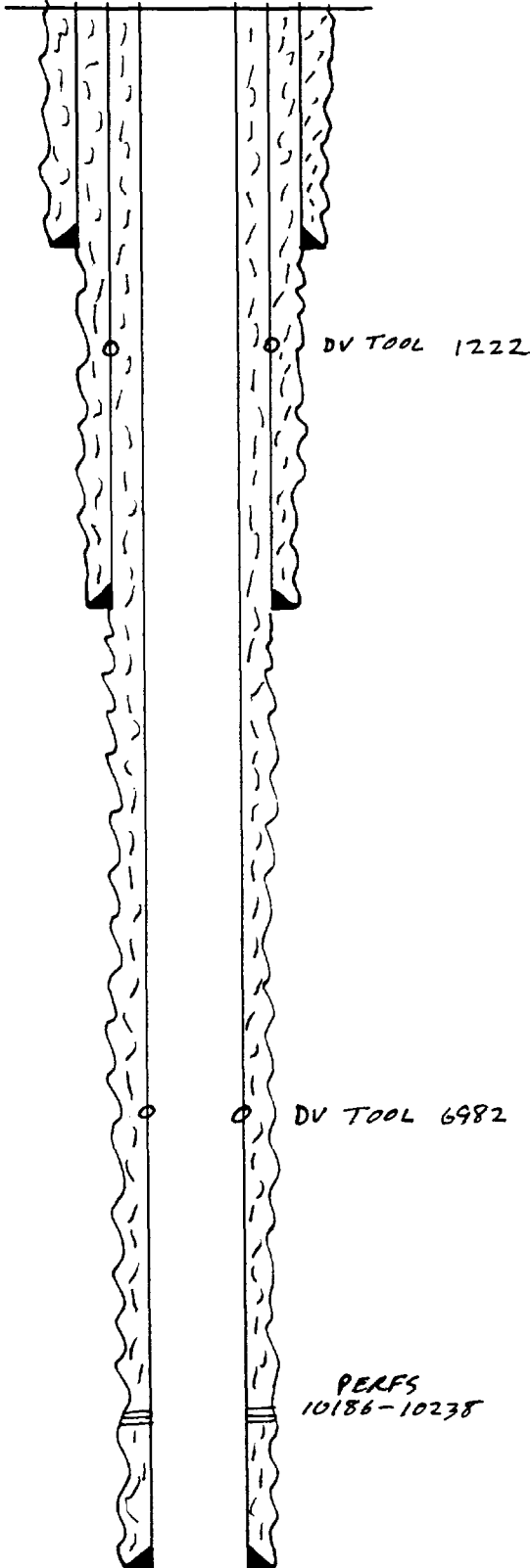
1 ST STAGE 495 SX. CIRC 154 SX

2 ND STAGE 955 SX. CIRC 60 SX

PRODUCING INTERVAL: ELLENBURGER

POOL: TEAGUE; ELLENBURGER, NORTH

PERFS: 10186 TO 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

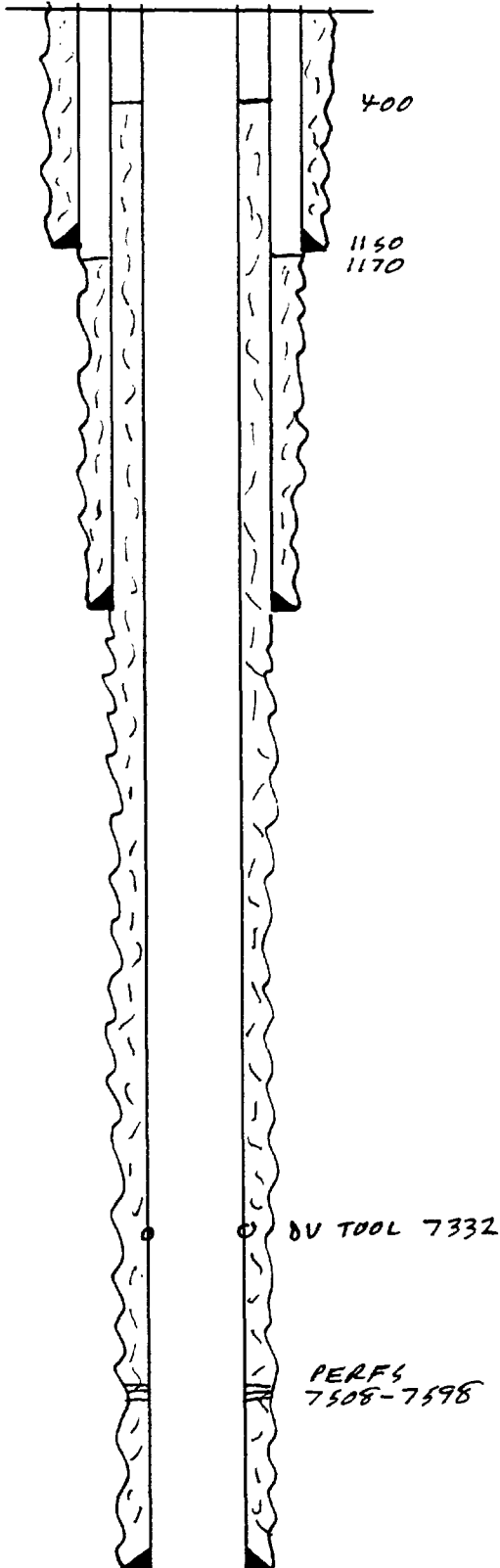
SURFACE CASING
SIZE: 13 3/8 SET AT: 1150 HOLE SIZE: 17 1/2
CEMENTED WITH 900
TOC: SURFACE DETERMINED BY: CIRC 56 SX

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'





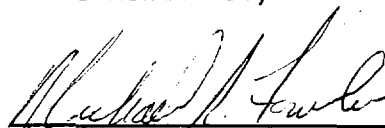
PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TEXAS 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NEW MEXICO 88240

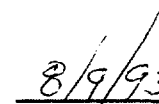
CHEMICAL ANALYSIS OF WATER

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

LIST OF WELLS IN AREA OF REVIEW

OPERATOR	WELL NAME & NUMBER	U/L	SEC	TWN	RNG	STATUS	TD	POOLNAME
TEXACO EXPL & PROD INC.	SKELLY PENROSE A UNIT # 33	M	4	23	37	TA	3650	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
TEXACO EXPL & PROD INC.	SKELLY PENROSE A UNIT # 34	N	4	23	37	SI	3650	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
TEXACO EXPL & PROD INC.	R R SINS # 1	N	4	23	37	P	10254	TEAGUE;ELLENBURGER, NORTH
TEXACO EXPL & PROD INC.	R R SINS # 2	M	4	23	37	P	8965	TEAGUE;DEVONIAN, NORTHWEST
OXY USA INC.	SKELLY PENROSE B UNIT # 40	P	5	23	37	I	3680	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 43	A	8	23	37	SI	3712	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 63	B	8	23	37	TA	3730	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 74	B	8	23	37	D	0	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 49	G	8	23	37	SI	3690	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
SKELLY OIL CO.	SKELLY PENROSE B UNIT # 55	H	8	23	37	P&A	3700	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 50	I	8	23	37	SI	3642	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
TEXACO EXPL & PROD INC.	SKELLY PENROSE A UNIT # 46	B	9	23	37	I	3690	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 41	C	9	23	37	P	10250	TEAGUE;ELLENBURGER, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "B" # 1	C	9	23	37	P	8907	TEAGUE;FUSSELMAN, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "B" # 3	C	9	23	37	P	10250	TEAGUE;FUSSELMAN, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "B" # 11	C	9	23	37	D	0	LEA UNDESIGNATED;GROUP 2
OXY USA INC.	SKELLY PENROSE B UNIT # 42	D	9	23	37	TA	3680	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
TEXACO EXPL & PROD INC.	B F HARRISON "B" # 4	D	9	23	37	P	10402	TEAGUE;ELLENBURGER, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "B" # 7	D	9	23	37	P	9000	TEAGUE;FUSSELMAN, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "B" # 8	D	9	23	37	P	5400	LEA UNDESIGNATED;GROUP 2
OXY USA INC.	SKELLY PENROSE B UNIT # 51	E	9	23	37	P&A	3630	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
TEXACO EXPL & PROD INC.	B F HARRISON "B" # 5	E	9	23	37	SI	10307	TEAGUE;BLINEBRY, NORTH (GAS)
TEXACO EXPL & PROD INC.	B F HARRISON "B" # 10	E	9	23	37	D	0	LEA UNDESIGNATED;GROUP 2
OXY USA INC.	SKELLY PENROSE B UNIT # 52	F	9	23	37	P	3654	WATER SUPPLY WELL
TEXACO EXPL & PROD INC.	B F HARRISON "B" # 2	F	9	23	37	P	10258	TEAGUE;ELLENBURGER, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "B" # 6	F	9	23	37	P	8950	TEAGUE;FUSSELMAN, NORTH
TEXACO EXPL & PROD INC.	SKELLY PENROSE A UNIT # 47	G	9	23	37	P	3650	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 53	K	9	23	37	SI	3660	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 54	L	9	23	37	SI	3645	LANGLIE MATTIX;7 RVRs-Q-GRAYBURG
TEXACO EXPL & PROD INC.	B F HARRISON "B" # 9	L	9	23	37	T	6000	TEAGUE;BLINEBRY, NORTH (GAS)

LIST OF WELLS WHICH PENETRATE THE SAN ANDRES FM

OPERATOR	WELL NAME & NUMBER	U/L	SEC	TWN	RNG	STATUS	TD	POOLNAME
TEXACO EXPL & PROD INC.	R R SIMS # 1	N	4	23	37	P	10254	TEAGUE; ELLENBURGER, NORTH
TEXACO EXPL & PROD INC.	R R SIMS # 2	N	4	23	37	P	8965	TEAGUE; DEVONIAN, NORTHWEST
TEXACO EXPL & PROD INC.	B F HARRISON "g" # 1	C	9	23	37	P	10250	TEAGUE; ELLENBURGER, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "g" # 3	D	9	23	37	P	8907	TEAGUE; FUSSELMAN, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "g" # 4	D	9	23	37	P	10402	TEAGUE; ELLENBURGER, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "g" # 7	D	9	23	37	P	9000	TEAGUE; FUSSELMAN, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "g" # 8	D	9	23	37	P	5400	LEA UNDESIGNATED; GROUP 2
TEXACO EXPL & PROD INC.	B F HARRISON "g" # 5	E	9	23	37	S1	10307	TEAGUE; BLINEBRY, NORTH (GAS)
TEXACO EXPL & PROD INC.	B F HARRISON "g" # 2	F	9	23	37	P	10258	TEAGUE; ELLENBURGER, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "g" # 6	F	9	23	37	P	8950	TEAGUE; FUSSELMAN, NORTH
TEXACO EXPL & PROD INC.	B F HARRISON "g" # 9	L	9	23	37	T	6000	TEAGUE; BLINEBRY, NORTH (GAS)

LIST OF WELLS WHICH DO NOT PENETRATE THE SAN ANDRES FM

OPERATOR	WELL NAME & NUMBER	U/L	SEC	TWN	RNG	STATUS	TD	POOLNAME
TEXACO EXPL & PROD INC.	SKELLY PENROSE A UNIT # 33	M	4	23	37	TA	3650	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
TEXACO EXPL & PROD INC.	SKELLY PENROSE A UNIT # 34	N	4	23	37	SI	3650	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 40	P	5	23	37	I	3680	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 43	A	8	23	37	SI	3712	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 63	B	8	23	37	TA	3730	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 74	B	8	23	37	D	0	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 49	G	8	23	37	SI	3690	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
SKELLY OIL CO.	SKELLY PENROSE B UNIT # 50	H	8	23	37	P&A	3700	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 55	I	8	23	37	SI	3700	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
TEXACO EXPL & PROD INC.	SKELLY PENROSE A UNIT # 46	B	9	23	37	I	3642	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 41	C	9	23	37	SI	3690	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 42	D	9	23	37	TA	3680	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 51	E	9	23	37	P&A	3630	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 52	F	9	23	37	P	3654	WATER SUPPLY WELL
TEXACO EXPL & PROD INC.	SKELLY PENROSE A UNIT # 47	G	9	23	37	P	3650	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 53	K	9	23	37	SI	3660	LANGLIE MATTX;7 RVRs-Q-GRAYBURG
OXY USA INC.	SKELLY PENROSE B UNIT # 54	L	9	23	37	SI	3645	LANGLIE MATTX;7 RVRs-Q-GRAYBURG

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)

30-025-32159

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 WILDCAT ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator

TEXACO EXPLORATION AND PRODUCTION INC.

7. Lease Name or Unit Agreement Name

B. F. HARRISON 'B'

3. Address of Operator

P. O. Box 3109, Midland, Texas 79702

8. Well No.

18

9. Pool name or Wildcat

UNDESIGNATED (SAN ANDRES)

4. Well Location

Unit Letter D : 990 Feet From The NORTH Line and 660 Feet From The WEST Line

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

10. Proposed Depth

5000'

11. Formation

SAN ANDRES

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

AUGUST 20, 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'	RED-MIX	SURFACE
12 1/4	8 5/8	24#	1180'	650	SURFACE
7 7/8	5 1/2	15.5# & 17#	5000'	1225	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: 550 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 675 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 /cwh TITLE DRILLING OPERATIONS MANAGER DATE 07-30-93

TYPE OR PRINT NAME C. P. BASHAM

TELEPHONE NO. 915-688-4620

(This space for State Use)

APPROVED BY Paul Kantz TITLE Geologist DATE AUG 03 1993

CONDITIONS OF APPROVAL, IF ANY:

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)

32-725-32126

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.

10

3. Address of Operator

P. O. Box 3109, Midland, Texas 79702

9. Pool name or Wildcat

UNDESIGNATED (GLORIETA)

4. Well Location

Unit Letter E : 1780 Feet From The NORTH Line and 660 Feet From The WEST Line

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

10. Proposed Depth

5400'

11. Formation

GLORIETA/PADDOCK

12. Rotary or C.T.

ROTARY

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

GR-3317'

14. Kind & Status Plug. Bond

BLANKET

15. Drilling Contractor

16. Approx. Date Work will start

JULY 15, 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'	500	SURFACE
*11	8 5/8	32#	3750'	1150	SURFACE
7 7/8	6 1/2	15.5#	5400'	400	SURFACE

CEMENTING PROGRAM: CONDUCTOR - READYMIX.

SURFACE CASING: 300 SACKS CLASS C w/ 2% GEL, 2% CaCl₂ (14.2ppg, 1.74cf/s, 9.1gw/s). F/B 200 SACKS CLASS C w/ 2% CaCl₂ (14.8ppg, 1.34cf/s, 6.3gw/s).

INTERMEDIATE CASING: 900 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT (14.2ppg, 1.35cf/s, 6.3gw/s). F/B 250 SACKS CLASS H w/ 2% CaCl₂ (15.6ppg, 1.18cf/s, 5.2gw/s).

PRODUCTION CASING: 200 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 200 SACKS CLASS H (15.6ppg, 1.18cf/s, 5.2gw/s).

*INTERMEDIATE CASING IS OPTIONAL. WILL BE RAN IF HOLE CONDITIONS DICTATE.
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 07-08-93

TYPE OR PRINT NAME C. P. BASHAM

TELEPHONE NO. 915-688-4620

(This space for State Use)
ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE JUL 12 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

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

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

API NO. (assigned by OCD on New Wells)

30-025-32107

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:

OR
WELL ☒ GAS
WELL ☐ OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

B. F. HARRISON 'B'

2. Name of Operator

TEXACO EXPLORATION AND PRODUCTION INC.

8. Well No.

11

3. Address of Operator

P. O. Box 3109, Midland, Texas 79702

9. Pool name or Wildcat

UNDESIGNATED (GLORIETA)

4. Well Location

Unit Letter C : 560 Feet From The NORTH Line and 2100 Feet From The WEST Line

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

10. Proposed Depth

5400'

11. Formation

GLORIETA/PADDOCK

12. Rotary or C.T.

ROTARY

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

GR-3312'

14. Kind & Status Plug. Bond

BLANKET

15. Drilling Contractor

16. Approx. Date Work will start

JULY 15, 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'	500	SURFACE
*11	8 5/8	32#	3750'	1150	SURFACE
7 7/8	5 1/2	15.5#	5400'	400	SURFACE

CEMENTING PROGRAM: CONDUCTOR - READYMIX.

SURFACE CASING: 300 SACKS CLASS C w/ 2% GEL, 2% Cacl2 (14.2ppg, 1.74cf/s, 9.1gw/s). F/B 200 SACKS CLASS C w/ 2% Cacl2 (14.8ppg, 1.34cf/s, 6.3gw/s).

INTERMEDIATE CASING: 900 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT (14.2ppg, 1.35cf/s, 6.3gw/s). F/B 250 SACKS CLASS H w/ 2% Cacl2 (15.6ppg, 1.18cf/s, 5.2gw/s).

PRODUCTION CASING: 200 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 200 SACKS CLASS H (15.6ppg, 1.18cf/s, 5.2gw/s).

*INTERMEDIATE CASING IS OPTIONAL. WILL BE RAN IF HOLE CONDITIONS DICTATE.
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 / cwt TITLE DRILLING OPERATIONS MANAGER DATE 07-08-93

TYPE OR PRINT NAME C. P. BASHAM

TELEPHONE NO. 915-688-4620

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

JUL 12 1993

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

Submit to Appropriate
District Office
State Leases - 6 copies
Fee Leases - 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)

30-D25-3216D

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

R. R. SIMS

2. Name of Operator

TEXACO EXPLORATION AND PRODUCTION INC.

8. Well No.

3

3. Address of Operator

P. O. Box 3109, Midland, Texas 79702

9. Pool name or Wildcat

North Teague Fusselman

4. Well Location

Unit Letter N : 380 Feet From The SOUTH Line and 2175 Feet From The WEST Line

Section 4 Township 23-SOUTH Range 37-EAST NMPM LEA County

10. Proposed Depth

8950'

11. Formation

Fusselman

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

AUGUST 30, 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'	500	SURFACE
11	8 5/8	32#	3750'	1150	SURFACE
7 7/8	5 1/2	17#	8950'	1650	SURFACE

** FIELDS: TEAGUE FUSSELMAN, NORTH: FUSSELMAN FORM., SOUTHWEST TEAGUE GLORIETA/UPPER PADDOCK: FORM. GLORIETA/UPPER PADDOCK.

CEMENTING PROGRAM: CONDUCTOR - READYMIX.

SURFACE CASING: 300 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).

INTERMEDIATE CASING: 900 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT (14.2ppg, 1.35cf/s, 6.3gw/s). F/B 250 SACKS CLASS H w/ 2% CaCl₂ (15.6ppg, 1.18cf/s, 5.2gw/s).

PRODUCTION CASING: 1st STG: 225 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 250 SACKS CLASS H w/ 1/4# FLOCELE, .6% D60 FL (15.6ppg, 1.18cf/s, 5.2gw/s).

DV TOOL @ 7000': 2nd STG. - 925 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 250 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 / cwk TITLE DRILLING OPERATIONS MANAGER DATE 07-30-93

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:

AUG 03 1993

Sub: [REDACTED]
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)

30-025-32115

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

Skelly Penrose B Unit

2. Name of Operator

OXY USA Inc.

8. Well No.

74

3. Address of Operator

P.O. Box 50250 Midland, TX. 79710

9. Pool name or Wildcat

Langlie Mattix 7 RVR Qn-GB

4. Well Location

Unit Letter B : 20 Feet From The North Line and 2611 Feet From The East Line

Section 8 Township 23S Range 37E NMPM Lea County

10. Proposed Depth

3800'

11. Formation

Queen

12. Rotary or C.T.

Rotary

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

3329.8'

14. Kind & Status Plug. Bond

Required/Approved

15. Drilling Contractor

Unknown

16. Approx. Date Work will start

ASAP

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8 5/8"	24#	400'	260	Circulated
7 7/8"	5 1/2"	15.5#	3800'	810	Circulated

It is proposed to Drill to a TD of 3800'.

See other side.

Approval to drill ONLY--Well cannot be produced until Non-standard location is approved.

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.W. Pollard

TITLE Oper. Engr. Supr.

DATE 7/12/93

TYPE OR PRINT NAME C.W. Pollard

(Prepared by David Stewart)

TELEPHONE NO. 9156855717

(This space for State Use)

Orig. Signed by
Paul Kautz
Geologist

APPROVED BY

TITLE

DATE

JUL 29 1993

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

P 187 942 404



Receipt for Certified Mail

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

Sent to: SAMEAN Oil Corp	
Street and No.: 10101 AK STE 240E.	
P.O., State and ZIP Code: MIDLAND, TX 79705	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 1.98
Postmark or Date	USPS 11 AUG 1998 NM 8824

PS Form 3800, June 1991

P 187 942 404



Receipt for Certified Mail

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

Sent to: OKYX Energy Corp	
Street and No.: 24 Smith Rd. CLAYCESTA	
P.O., State and ZIP Code: Box 1861 Midland TX 79703	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 1.98
Postmark or Date	USPS 11 AUG 1998 NM 8824

PS Form 3800, June 1991

P 187 942 404



Receipt for Certified Mail

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

Sent to: Acco Oil & Gas Corp	
Street and No.: Box 1610	
P.O., State and ZIP Code: MIDLAND, TX 79702	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 1.98
Postmark or Date	USPS 11 AUG 1998 NM 8824

PS Form 3800, June 1991

P 187 942 404



Receipt for Certified Mail

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

Sent to: CHEVRON USA Inc	
Street and No.: PO Box 1150	
P.O., State and ZIP Code: MIDLAND TX 79702	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 1.98
Postmark or Date	USPS 11 AUG 1998 NM 8824

PS Form 3800, June 1991

P 687 592 411



**Receipt for
Certified Mail**

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

Sent to <i>Byrd SASSMAN</i>	
Street and No. <i>POB 184</i>	
P.O. State and ZIP Code <i>Center Point, TX 78010</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom Date, and Addressee's Address	
TOTAL Postage & Fees	<i>\$19.11</i>
Postmark or Date	<i>NOV 11 1988</i>

PS Form 3800, June 1991

RECEIVED
DIVISION
JUN 9 32

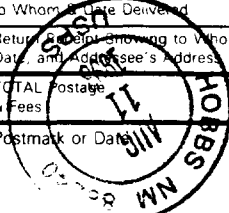


**Receipt for
Certified Mail**

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

Sent to	
Exy USA INC	
Street and No	
PO Box 50250	
P.O., State and ZIP Code	
Midland TX 79710	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 1.98
Postmark or Date	

PS Form 3800, June 1991





STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

RECEIVED
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE
AUG 16 1993 10 29 AM

BRUCE KING
GOVERNOR

8-16-93

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 _____

Gentlemen:

I have examined the application for the:

Texaco Expl & Prod Inc B.F. Harrison "B" #18-D 9-23S-37E
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed