

APPROVAL VALID FOR 180 DAYS  
 PERMIT EXPIRES 5/16/83  
 UNLESS DRILLING UNDERWAY

30-025-27969

NEW MEXICO OIL CONSERVATION COMMISSION

Texaco Lease # 255100

Form O-171  
 Revised 1-1-85

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DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

18. Indicate Type of Lease  
 STATE  FEE   
 19. Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

1a. Type of Work  
 b. Type of Well DRILL  DEEPEN  PLUG BACK   
 OIL WELL  GAS WELL  OTHER  Water Injection  
 2. Name of Operator: Texaco Inc.  
 3. Address of Operator: P. O. Box 3109 Midland, Texas 79702  
 4. Location of Well: UNIT LETTER D LOCATED 1310 FEET FROM THE North AND 100 FEET FROM THE West 36 T-17-S R-34-E  
 5. Unit Agreement Name  
 6. Firm or Lease Name: Central Vacuum Unit  
 7. Well No.: 159  
 8. Field and Pool, or Wildcat: Vacuum  
 9. County: Lea  
 10. Rotary or C.T.: Rotary  
 11. Elevation (Show whether D.F., R.F., etc.): 4009' Gr.  
 12. Approx. Date Work will start: Immediately

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	BACKS OF CEMENT	EST. TOP
20"	16"	65#, H-40	350'	650	Circulate
15"	11 3/4"	42#, H-40	1530'	1200	Circulate
*11"	8 5/8"	28#, H-40	2675'	1100	Circulate
		28#, S-80			
7 7/8"	5 1/2"	15.5#K-55	4800'	2300	Circulate

Surface Casing: 650 sxs Class "H" w/2% CaCl<sub>2</sub> (15.6 ppg, 1.18 ft<sup>3</sup>/sx).  
 1st Intermediate Casing: 1000 sxs 50:50 Pozmix Class "H" w/5# gilsonite, 1/4# flocele/sx, & 2% CaCl<sub>2</sub> (13.7 ppg, 1.37 ft<sup>3</sup>/sx) followed by 200 sxs Class "H" w/1/4# flocele/sx & 2% CaCl<sub>2</sub> (15.6 ppg, 1.18 ft<sup>3</sup>/sx).  
 \*2nd Intermediate Casing: 1st Stage; 500 sxs 50:50 Pozmix Class "H" w/8.6# salt & 1/4# flocele/sx (14.5 ppg, 1.31 ft<sup>3</sup>/sx) followed by 200 sxs Class "H" w/7.8# salt & 1/4# flocele/sx (15.9 ppg, 1.22 ft<sup>3</sup>/sx). DV Tool @ 1540'.  
 2nd Stage: 400 sxs Class "H" w/2% CaCl<sub>2</sub> (15.6 ppg, 1.18 ft<sup>3</sup>/sx).  
 Production Casing: 2000 sxs 50:50 Pozmix Class "H" w/5# gilsonite & 1/4# flocele/sx (13.7 ppg, 1.37 ft<sup>3</sup>/sx) followed by 300 sxs Class "H" w/1/4# flocele/sx (15.6 ppg, 1.18 ft<sup>3</sup>/sx).

\* SECOND INTERMEDIATE CASING TO BE RUN ONLY IF WATERFLOW IS ENCOUNTERED.

NSL-1612

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM, INCLUDING A SUMMARY OF THE PROPOSED ZONE AND PROPOSED NEW PRODUCTION ZONE, SIZE BLOW-OUT PREVENTER PROGRAM, ETC.

I hereby certify that the information given is true and correct.

Signed R. S. Lane Asst. Petr. Engr. Manager. September 30, 1982  
 R. S. Lane

APPROVED BY Eddie W. Lane OIL & GAS INSPECTOR DATE NOV 16 1982  
 CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator <b>Texaco Inc.</b>		Lease <b>Central Vacuum Unit</b>		Well No. <b>159</b>
Unit Letter <b>D</b>	Section <b>36</b>	Township <b>T-17-S</b>	Range <b>R-34-E</b>	County <b>Lea</b>
Actual Footage Location of Well: <b>1310</b> feet from the <b>North</b> line and <b>100</b> feet from the <b>West</b> line				
Ground Level Elev. <b>4009'</b>	Producing Formation <b>San Andres</b>	Pool <b>Vacuum</b>	Dedicated Acreage: <b>Injection well</b> Acres	

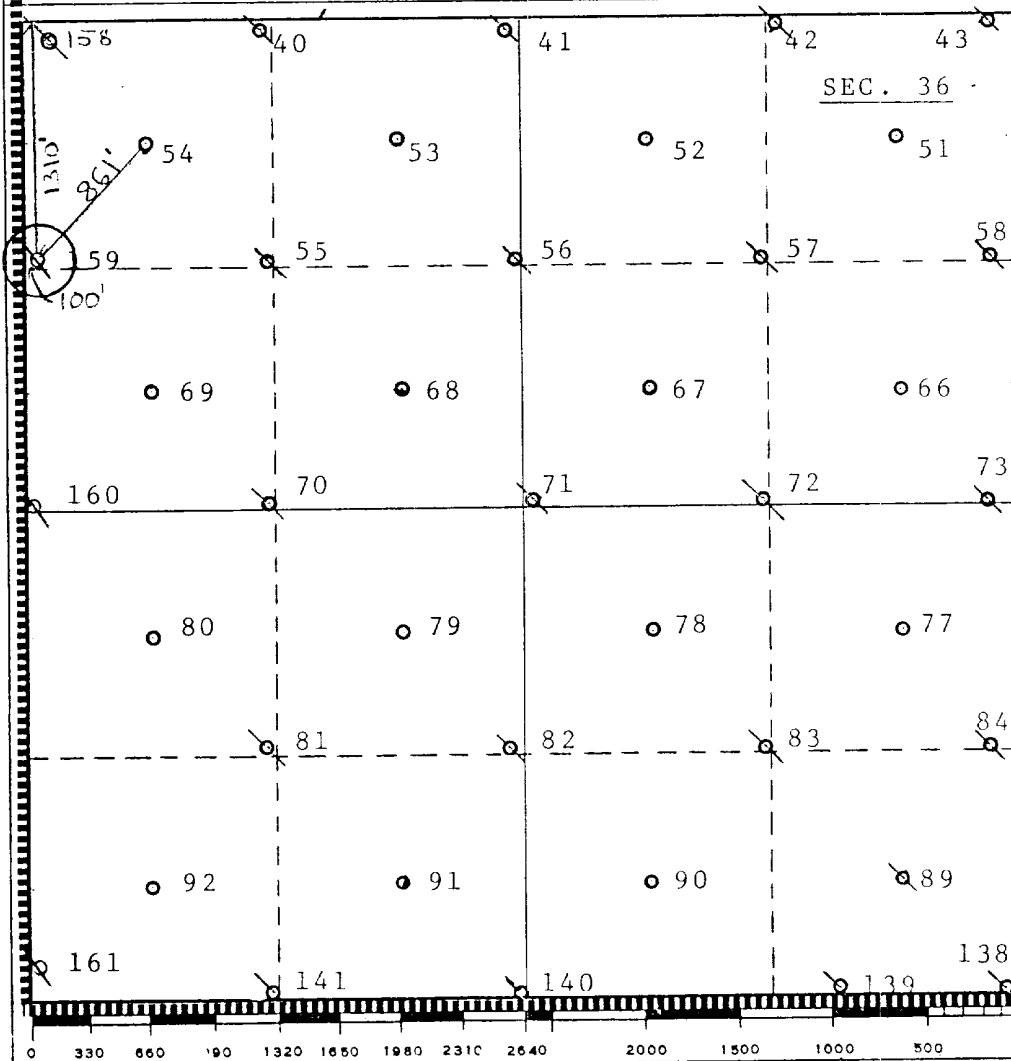
Unorthodox Location

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes  No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

*B. L. Eiland*

Name  
**B. L. Eiland**

Position  
**Division Surveyor**

Company  
**Texaco Inc.**

Date  
**September 30, 1982**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**September 23, 1982**

Registered Professional Engineer and/or Land Surveyor

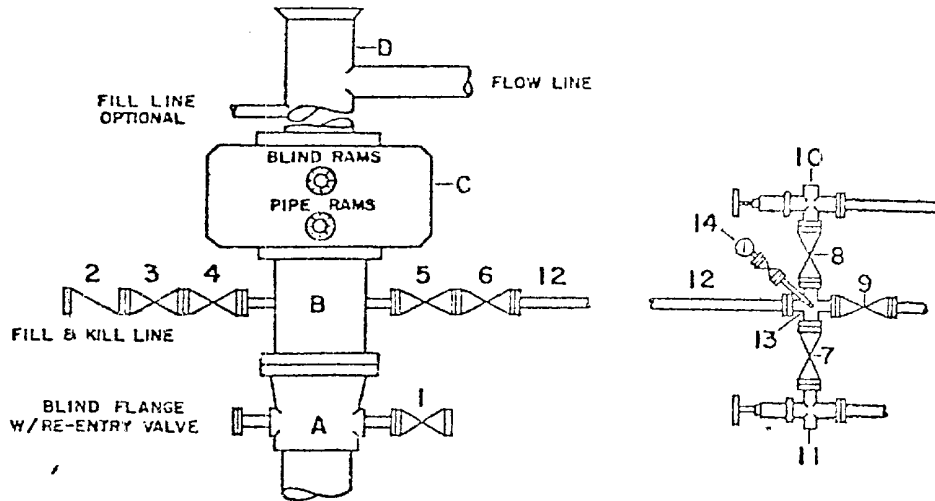
*B. L. Eiland*  
**B. L. Eiland**

Certificate No.

**4386**

**DRILLING CONTROL**  
**CONDITION II-3000 PSI WP**

H<sub>2</sub>S TRIM REQUIRED  
YES \_\_\_\_\_ NO \_\_\_\_\_



DRILLING CONTROL

MATERIAL LIST - CONDITION II

- A Texaco Wellhead
- B 3000# W.P. drilling spool with a 2" minimum flanged outlet for kill-line and 3" minimum flanged outlet for choke line
- C 3000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 3000# W.P. control lines (where sub-structure height is adequate, 2-3000# W.P. single ram type preventers may be utilized.)
- D Bell nipple with flowline and fill-up outlets. (Kill line may also be used for fill-up line.)
- 1,3,4,7,8 2" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 2 2" minimum 3000# W.P. back pressure valve
- 5,6,9 3" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 12 3" minimum schedule 80, Grade "B", seamless line pipe
- 13 2" minimum x 3" minimum 3000# W.P. flanged cross
- 10, 11 2" minimum 3000# W.P. adjustable choke bodies
- 14 Cameron Mud Gauge or equivalent (location optional in choke line.)

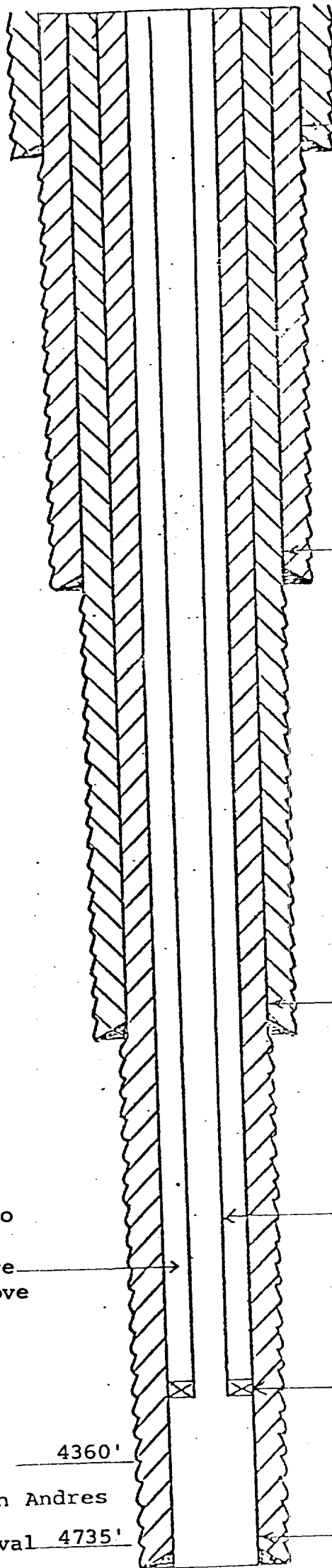


TEXACO, INC.  
PRODUCING DEPARTMENT U.S.  
MIDLAND, TEXAS



SCALE	DATE	EST. NO.	DRG. NO.
DRAWN BY			
CHECKED BY			
APPROVED BY			

EXHIBIT B



16" Csg. set @ 350'  
Circulate Cement.

11-3/4" Csg. set @ 1530'  
Circulate Cement.

8-5/8" Csg. set @ 2675'  
Circulate Cement.

2-3/8" Plastic Coated  
Tubing. Pressure limiting  
valve to be installed at  
surface to limit injection  
pressure to 0.2 psi per  
foot of depth.

Packer to be set within  
50' of top perforations  
(± 4320')

2-3/8" x 4-1/2" Annulus to  
be loaded with inhibited  
fluid. Valve and pressure  
gauge to be installed above  
ground on annulus.

Est. Top Perforations @ 4360'

Grayburg-San Andres

Est. Base of Perf. Interval 4735'

5-1/2" Csg. set @ 480'  
Circulate Cement.

PROPOSED INJECTION WELLS  
CENTRAL VACUUM UNIT  
WELL NO. 159  
VACUUM GRAYBURG-SAN ANDRES FIELD  
LEA COUNTY, NEW MEXICO