

SUBMIT IN TRIPLICATE

UNI  
DEPARTMENT  
BUREAU OF

OPER. OGRID NO. 22351  
PROPERTY NO. 10942  
POOL CODE 35280  
EFF. DATE 7/3/97  
API NO. 30-225-34053

\$0240

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

5. Lease Designation and Serial No.  
NM 10034

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number  
C. C. FRISTOE 'A' FEDERAL NCT-1

13  
9. API Well No.

10. Field and Pool, Exploratory Area  
JUSTIS BLINERY / JUSTIS TUBB DRINKARD

11. SEC., T., R., M., or BLK. and Survey or Area  
Sec. 35, Township 24-S, Range 37-E

12. County or Parish  
LEA  
13. State  
NM

17. No. of Acres Assigned To This Well  
40

20. Rotary or Cable Tools  
ROTARY

22. Approx. Date Work Will Start\*  
8/20/97

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. Type of Work DRILL ☒ DEEPEN ☐

1b. Type of Well SINGLE ZONE ☒

OIL WELL ☒ GAS WELL ☐ OTHER MULTIPLE ZONE ☐

2. Name of Operator  
TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No. P.O. Box 3109, Midland Texas 79702 688-4606

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At Surface

Unit Letter E : 1400 Feet From The NORTH Line and 330 Feet From The WEST Line

At proposed prod. zone

SAME

14. Distance in Miles and Direction from Nearest Town or Post Office\*  
5.4 MILES NORTHEAST OF JAL, NM

15. Distance From Proposed\* Location to Nearest Property or Lease Line, Ft. (also to nearest drlg. unit line, if any) 330

16. No. of Acres in Lease  
80

18. Distance From Proposed Location\* to Nearest Well, Drilling, Completed or Applied For, On This Lease, Ft. 671'

19. Proposed Depth  
6400'

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

GR-3190'

23. PROPOSED CASING AND CEMENT CAPTAIN CONTROLLED WATER BASIN

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
*11	WC50, 8 5/8	24#	925'	525 SACKS - CIRCULAR WITNESS
7 7/8	L80/K55, 4 1/2	11.6#	6400'	1400 SACKS - TOC @ 1600'

CEMENTING PROGRAM:

SURFACE CASING: 325 SACKS CLASS C w/ 4% GEL, 2% CC (13.5 PPG, 1.74 CF/S, 9.1 GW/S). F/B 200 SACKS CLASS C w/ 2% CC (14.8 PPG, 1.34 CF/S, 6.3 GW/S).

PRODUCTION CASING: 700 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FC (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 700 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT, 1/4# FC (14.2 PPG, 1.35 CF/S, 6.3 GW/S).

\*VERBAL APPROVAL FOR OCD IN HOBBS TO SET 8 5/8 SURFACE CASING IN AN 11" HOLE FOR WELLS IN THIS LEASE.

12 DAYS TO DRILL, 10 DAYS TO COMPLETE.  
THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS

UNORTHODOX LOCATION: APPLICATION HAS BEEN FILED. (COPY ATTACHED.)

SUBJECT TO FOR  
LIKE APPROVAL UNORTHODOX ATTACHED

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

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

SIGNATURE C. Wade Howard TITLE Eng. Assistant DATE 5/8/97

TYPE OR PRINT NAME C. Wade Howard

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

APPROVED BY (ORIG. SGD.) JAMES G. PETTENGILL TITLE Acting ADM, MINERALS DATE 6/4/97

CONDITIONS OF APPROVAL, IF ANY:

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

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

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

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

DISTRICT IV  
P. O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

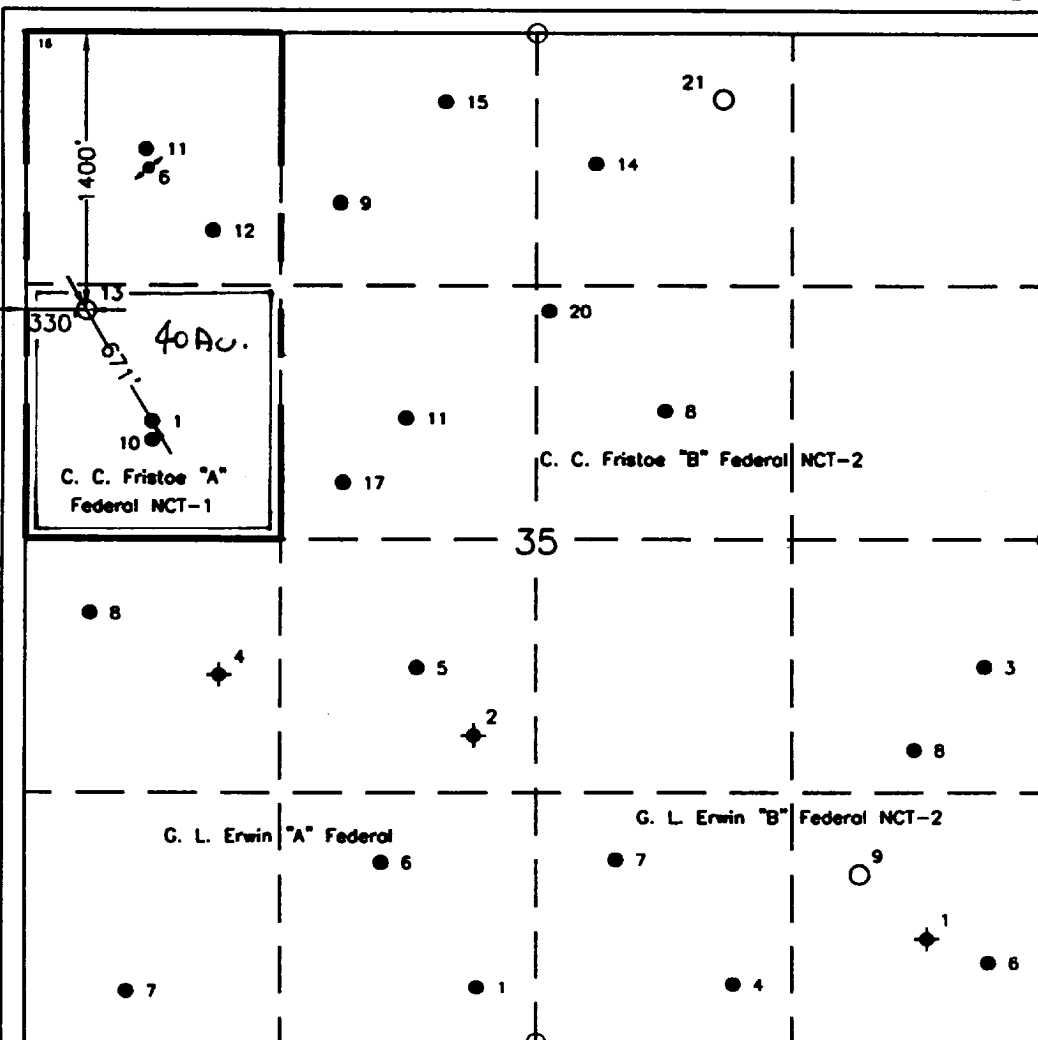
State Lease-4 copies  
Fee Lease-3 copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-34053		<sup>2</sup> Pool Code 3528D		<sup>3</sup> Pool Name 34200 Justis Blinbry & Justis Tubb Drinkard			
<sup>4</sup> Property Code 10942		<sup>5</sup> Property Name C. C. Fristoe "A" Federal NCT-1			<sup>6</sup> Well Number 13		
<sup>7</sup> OGRID No. 22351		<sup>8</sup> Operator Name TEXACO EXPLORATION & PRODUCTION, INC.			<sup>9</sup> Elevation 3190'		
<sup>10</sup> Surface Location							
UL or lot no. E	Section 35	Township 24-S	Range 37-E	Lot Idn 1400'	Feet from the North/South line North 330'	East/West line West	County Lea
<sup>11</sup> Bottom Hole Location if Different From Surface							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the North/South line	Feet from the	East/West line County
<sup>12</sup> Dedicated Acres 40		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



<sup>16</sup>OPERATOR CERTIFICATION

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

Signature

C. Wade Howard

Printed Name

C. Wade Howard

Position

Engineer's Assistant

Company

Texaco Expl. & Prod. Inc.

Date

May 2, 1997

<sup>17</sup>SURVEYOR CERTIFICATION

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

April 22, 1997

Signature & Seal of  
Professional Surveyor

John S. Piper

Certificate No.

7254 John S. Piper

Sheet 8 of 8

## DRILLING PROGRAM

C. C. FRISTOE 'A' FEDERAL NCT-1 WELL No. 13

### **SURFACE DESCRIPTION:**

See Item 11 (other information) in the attached Surface Use and Operations Plan.

**FORMATION TOPS:** Estimated KB Elevation: 3204'

<u>Formation</u>	<u>Depth</u>	<u>Lithology</u>	<u>Fluid Content</u>
Rustler	925'	Anhy, Salt	----
Tansill	2270'	Anhy, Dolo	----
Yates	2385'	Sandstone, Anhy	----
Queen	3090'	Sandstone, Anhy	----
Blinebry	5125'	Dolomite, Anhy	Oil
Tubb	5800'	Sandstone	Oil
Drinkard	6000'	Dolomite, Anhy	Oil
Abo	6225'	Dolo, Limestone	Oil

The base of the salt section is the top of the Tansill at 2270'. No abnormal pressures or temperatures are anticipated to be encountered in this well. H2S is present in the Blinebry. H2S RADIUS OF EXPOSURE: 100ppm = 26', 500ppm = 12', based on 300ppm H2S and 380 MCF (see attached H2S Drilling Operations Plan. H2S equipment to be operational prior to drilling out Surface Casing Shoe.)

Duration of Operation: 12 Days to Drill & 10 Days to Complete

### **PRESSURE CONTROL EQUIPMENT:**

A 3000 psi Dual Ram type preventer with rotating head will be used. (See Exhibit C). We do not plan to have an annular preventer. We will be able to achieve full closure of the well with the double ram preventer. It will be installed after surface casing is set. BOP will be tested each time it is installed on a casing string and at least every 29 days, and operated at least once each 24-hour period during drilling.

A PVT system will not be installed. We will be drilling thru the reserve pit and will circulate the steel pits one hour each tour to check for gains and losses and will be noted on the driller's log, which is Texaco's policy.

We do not plan to run an automatic remote-controlled choke. We will have installed and tested two manual, H2S trimmed, chokes.

**CASING AND CEMENT PROGRAM:**

The cementing program is detailed on Form 3160-3. All casing will be new.

**Casing Program:**

Surface Casing - 8 5/8", 24#, WC50, STC set at 925'.

Production Casing - 0' to 2000': 4 1/2", 11.6#, L-80, LTC  
2000' to 6400': 4 1/2", 11.6#, K-55, LTC.

**Centralizer Program:**

Surface Casing - Centralize the bottom 3 joints and every 4th to surface.

Production Casing - Centralize every 3rd joint on bottom 2000'.

**MUD PROGRAM:**

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>
0'-925'	Fresh Water	8.4	28
925'-4000'	Brine	10.0	29
4000'-6400'	Brine/Starch	10.0	32-36

Bottom Hole Pressure at T.D. estimated to be 6.7 PPG EMW (2230 psi).

**LOGGING, TESTING:**

GR-CNL-LDT, GR-DLL-MSFL, and GR-Sonic surveys will be run.

No Mud Logging Unit will be used.

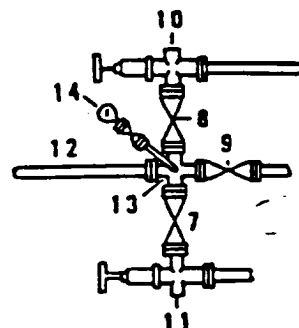
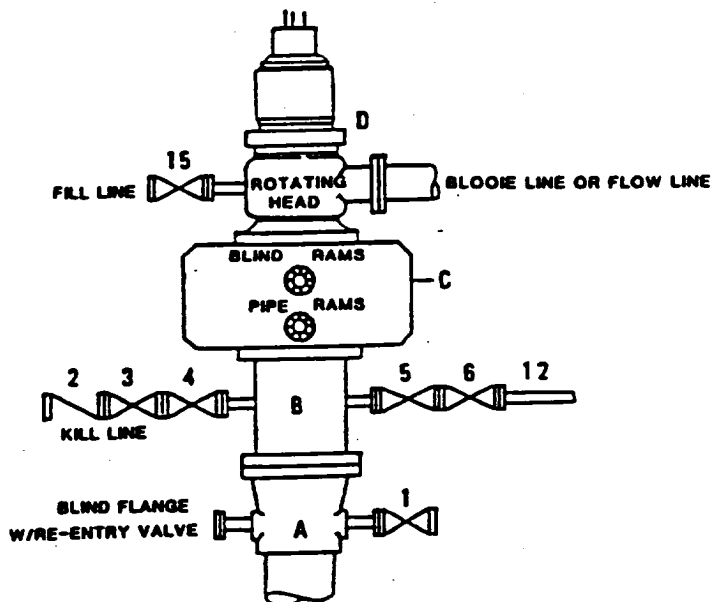
No drill stem tests will be conducted.

No cores will be taken.

# **DRILLING CONTROL CONDITION II-B 3000 WP**

**FOR AIR DRILLING OR  
WHERE NITROGEN OR AIR BLOWS ARE EXPECTED**

H<sub>2</sub>S TRIM REQUIRED  
YES ☒ NO ☐



## DRILLING CONTROL

### MATERIAL LIST - CONDITION II - B

- |             |   |
|-------------|---|
| 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           | Rotating Head with fill up outlet and extended Blooe 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).   |
| 15          | 2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.   |



**TEXACO, INC.**  
MIDLAND DIVISION  
MIDLAND, TEXAS



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

**EXHIBIT C**

**OPERATOR - LANDOWNER AGREEMENT**

**COMPANY:** TEXACO EXPLORATION AND PRODUCTION INC.

**PROPOSED WELL:** C.C. FRISTOE "A" FEDERAL NCT-1 No. 13

**FEDERAL LEASE NUMBER:** NW 10934

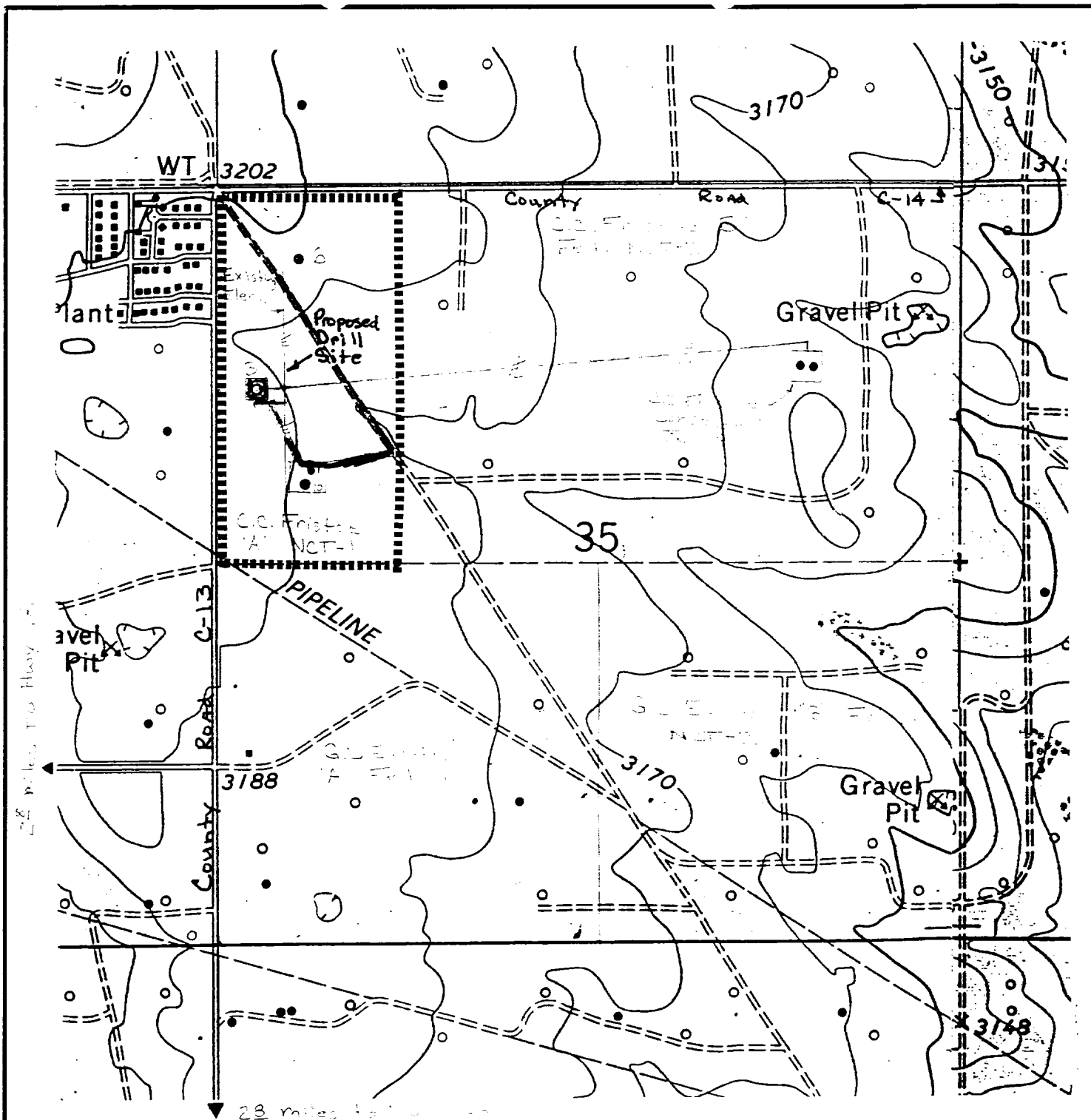
This is to advise that Texaco Exploration and Production Inc. has an agreement with:  
EL PASO NATURAL GAS, P.O. BOX 1492 EL PASO, TX 79978,

the surface owner, concerning entry and surface restoration after completion of drilling operations at the above described well.

After abandonment of the well, all pits will be filled and levelled, and all equipment and trash will be removed from the well site. No other requirements were made concerning restoration of the well site.

5/6/97  
Date

C. Wade Howard  
C. W. Howard  
Engineer's Assistant  
Midland, Texas



### LEGEND OF SYMBOLS

- = Access Road (Yellow)
- = Resource Road Federal Land (Pink)
- = Resource Road on Lease (Brown)
- = Proposed Resource Road (Red)
- = Proposed Electric Line (Orange)
- = Proposed Production Flowline (Green)
- = Staked Well Location
- = Producing Well Location
- = Water Well
- = Found 1" Iron Pipe With Brass Cap
- ⊙ = Found 2" Iron Pipe With Brass Cap
- = Unit or Lease Boundary

### EXHIBIT "A" ACCESS ROAD AND FACILITIES MAP

### TEXACO EXPLORATION AND PRODUCTION

C. C. Fristoe "A" Federal NCT-1 No. 13  
1400' FNL & 330' FWL Section 35,  
T-24-S, R-37-E, NMPM, Lea County, NM

Drawn by: Oscar Flores

Scale: 1" = 1000 Feet

Date: April 25, 1997

C. Wade Howard

Checked by: J. S. Piper

Sheet 6 of 8

ELF 10/18/97  
\_\_\_\_\_  
ABOVE DATE DOES NOT  
INDICATE WHEN  
CONFIDENTIAL LOGS  
WILL BE RELEASED