

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0136
Expires: November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM-89057	
1b. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator UNDERS. Ross Ranch		7. Unit or CA Agreement Name and No. 20848	
3a. Address Texaco Exploration & Production		8. Lease Name and Well No. ROSS RANCH '10' FEDERAL #2	
3b. Phone No. (include area code) 500 N. Loraine Midland, Texas 79702		9. API Well No. 30-015-32094	
4. Location of Well (Report location clearly and in accordance with any State requirements) At surface UNIT H, 1915' FNL & 150' FEL		10. Field and Pool, or Exploratory WOLFCAMP	
At proposed prod. zone SAME		11. Sec., T., R., M., or Blk. and Survey or Area SEC 10, T-26-S, R-31-E	
14. Distance in miles and direction from nearest town or post office* 36 MILES SE OF CARLSBAD, NM		12. County or Parish EDDY	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 150'	16. No. of Acres in lease 2160	17. Spacing Unit dedicated to this well 320	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 514.6'	19. Proposed Depth 13300'	20. BLM BIA Bend No. on file CO-0058	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3214'	22. Approximate date work will start* 8/1/01	23. Estimated duration	

NSL-4595

24. Attachments **Carlsbad Controlling Water Right**

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature A. Phil Ryan	Name (Printed/Typed) A. PHIL RYAN	Date 5/16/01
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Title
COMMISSION COORDINATOR

Approved by (Signature) /S/ JOE G. LARA	Name (Printed/Typed) /S/ JOE G. LARA	Date NOV 01 2001
---	--	----------------------------

Title Acting FIELD MANAGER	Office CARLSBAD FIELD OFFICE
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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.

Conditions of approval, if any, are attached.

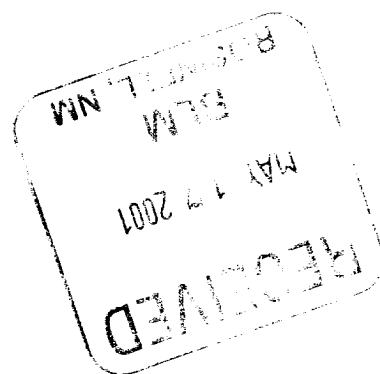
APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

*(Instructions on Reverse)



**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED**



DISTRICT I
P. O. Box 1980, Hobbs, NM 88240
DISTRICT II
P. O. Drawer 99, Artesia, 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

Form C-102
Revised February 10, 1994

Instructions on back

OIL CONSERVATION DIVISION

PO Box 2088
Santa Fe, NM 87504-2088

Submit to Appropriate District Office

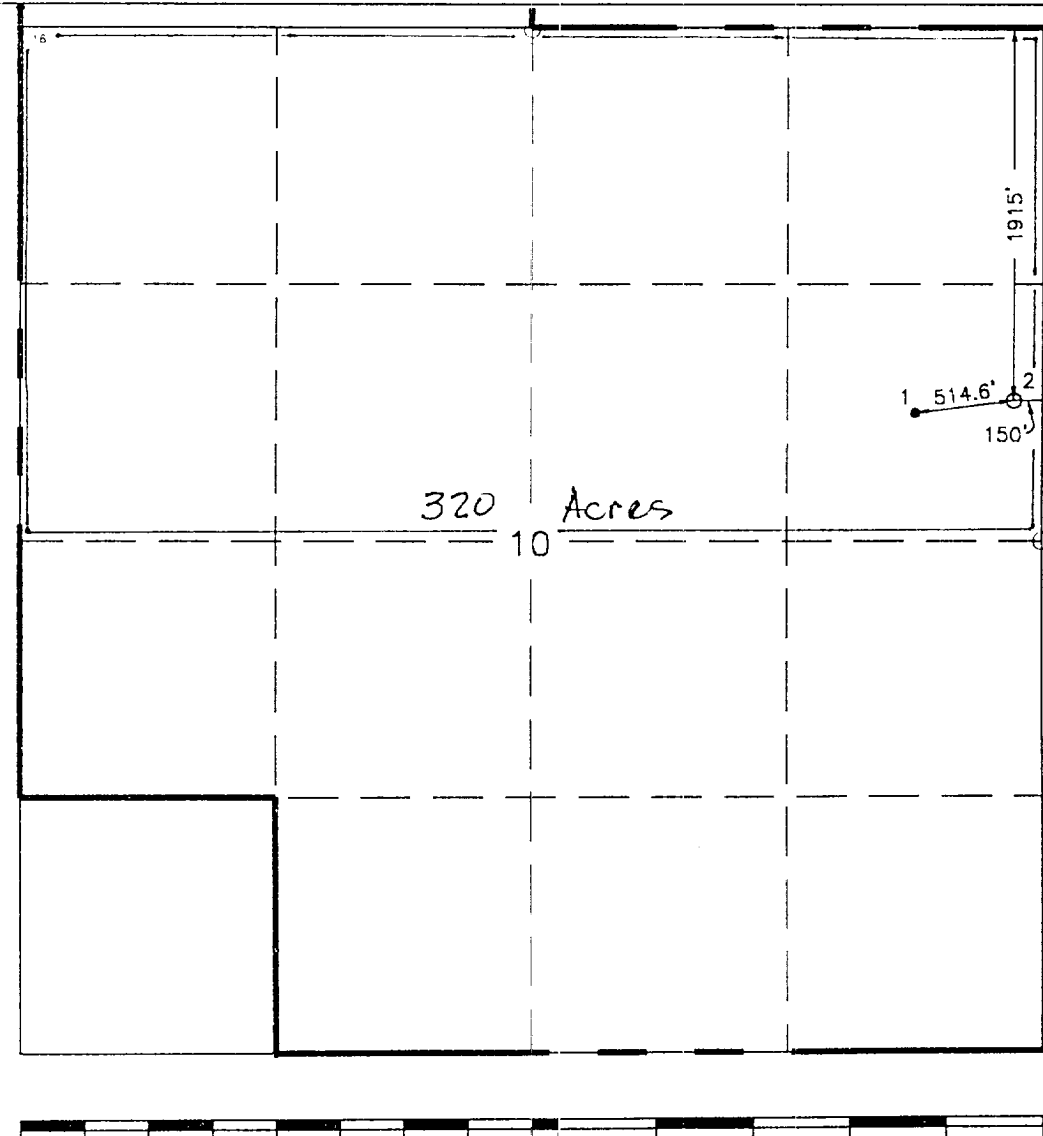
State Lease-4 copies
Fee Lease-3 copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name Big Sinks South; Wolfcamp					
⁴ Property Code		⁵ Property Name Ross Ranch "10" Federal						⁶ Well Number 2	
⁷ GRID No. 22351		⁸ Operator Name TEXACO EXPLORATION & PRODUCTION, INC.						⁹ Elevation 3214'	
¹⁰ Surface Location									
¹¹ UL or lot no. H	Section 10	Township 26-S	Range 31-E	Lot 10n	Feet from the 1915'	North/South line North	Feet from the 150'	East/West line East	¹² County Eddy
¹³ Bottom Hole Location If Different From Surface									
¹⁴ UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	¹⁵ County
¹⁶ Dedicated Acres 320		¹⁷ Joint or Infill		¹⁸ Consolidation Code		¹⁹ 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.

	¹ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
	Signature <i>A. Phil Ryan</i>	
	Printed Name A. Phil Ryan	
	Position Commissioner Coordinator	
	Company Texaco Expl. & Prod. Inc.	
	Date April 3, 2001	
	¹⁸ 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 March 29, 2001	
	Signature & Seal of Professional Surveyor <i>John S. Piper</i>	
	Certificate No. 7254 John S. Piper	
Sheet		

○ = Staked Location ● = Producing Well = Injection Well ∞ = Water Supply Well ⊕ = Plugged & Abandon Well

DRILLING PROGRAM

ROSS RANCH '10' FEDERAL WELL No. 2

SURFACE DESCRIPTION:

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

FORMATION TOPS: Estimated KB Elevation: 3963'

<u>Formation</u>	<u>Depth</u>	<u>Lithology</u>	<u>Fluid Content</u>
Top of Salt	1400'	Salt	----
Base of Salt	3150'	Salt	----
Castille	----	Anhydrite	----
Lamar	4200'	Lime	----
Bell Canyon	4240'	Sand	----
Brushy Canyon	----	Sand	----
Lower Brushy Canyon	----	Sand	----
Bone Spring	8220'	Sand	----
Wolfcamp	11500'	Lime	----
Wolfcamp Pay	12900'	Lime	Gas
Total Depth:	13300'		

The base of the salt section is the top of the Delaware at 3170'. No abnormal pressures or temperatures are anticipated to be encountered in this well. The Bottom Hole pressure at T.D. is estimated to be 7.9 PPG EMW (5135 PSI).

Install H2S equipment from 900' to 12,200' (TD). H2S RADIUS OF EXPOSURE: 100ppm = 199', 500ppm = 91', based on 4300 ppm H2S and 692 MCF (see attached H2S Drilling Operations Plan. H2S equipment to be operational prior to drilling out Surface Casing Shoe.)

Duration of Operation: 46 Days to Drill & 8 Days to Complete

PRESSURE CONTROL EQUIPMENT:

A 3000 psi (or 5000 psi at drilling contractor's option) Dual Ram BOP with rotating head (See Exhibit C) will be installed after surface casing is set. A 5000 psi or 10,000 psi Dual Ram BOP with a rotating head and annular preventer will be used. (See Exhibit F-1 and G-1). It will be installed after intermediate casing is set at 3600'. 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:

All Casing will be new.

Casing Program:

WITNESS Surface Casing - 17 1/2" hole, 13 3/8", 48#, H-40, STC, set @ 700'.

Intermediate Casing 1: 12 1/4" hole, 4300' of 9 5/8", 40#, K-55, STC, set @ 4300'.

Intermediate Casing 2: 8 1/2" hole, 12800' of 7", 32#, C-95, LTC, set @ 12800'.

Production Casing: 5 7/8" hole, 13300' of 5", 18#, C-95, FL-4S, set @ 13300'.

Centralizer Program:

Surface Casing - Centralize the bottom 3 joints and every 4th to surface. Run float shoe only.

Intermediate Casing 1 - Centralize the bottom 3 joints. Run float shoe and insert float 1 joint up.

Intermediate Casing 2 - Centralize bottom 3 joints. Float shoe and collar 2 joints up. DV Tool @ 8000' with ECP below (100% Excess).

Production Casing - Centralize above and below the DV Tool and place 2 baskets below DV Tool.

Cementing Program:

CIRCULATE Surface Casing: 400 sacks Class C w/2% Gel, 2% CaCl₂ (13.5 PPG, 1.74 CF/S, 9.11 GW/S). F/B 390 sacks Class C w/2% CaCl₂ (14.8 PPG, 1.34 CF/S, 6.40 GW/S).

CIRCULATE Intermediate Casing 1: 1190 sacks 35/65 Poz Class H w/6% Gel, 5% Salt, 1/4# FC (12.6 PPG, 1.94 CF/S, 10.46 GW/S). F/B 320 sacks Class H (15.6 PPG, 1.18 CF/S, 5.20 GW/S)>

Intermediate Casing 2: 710 sacks 50/50 Poz Class H w/2% Gel, 5% Salt, 1/4# FC (14.2 PPG, 1.35 CF/S, 7.45 GW/S). F/B 110 sacks Class H (15.6 PPG, 1.18 CF/S, 5.20 GW/S). DV Tool @ 8000'. 800 sacks Class H (11.5 PPG, 2.98 CF/S, 10.46 GW/S). F/B 230 sacks 50/50 Poz Class H w/2% Gel, 5% Salt, 1/4# FC (14.2 PPG, 1.35 CF/S, 7.45 GW/S).

Production Casing: 100 sacks Gas Block (16.4 PPG, 1.09 CF/S, 5.31 GW/S).

MUD PROGRAM:

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>
0'-700'	Fresh Water	8.4	30
700'-4300'	Brine	10.0	29
4300'-12800'	Fresh Water	8.4	29-40
12800'-13300'	Weighted Brine/Polymer	12-14.5	40

LOGGING, TESTING:

GR-CAL-CNL-LDT, GR-CAL-DLL-MSFL, GR-CAL-BHC surveys will be run.

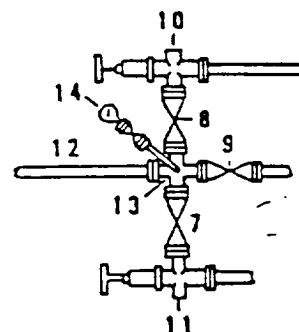
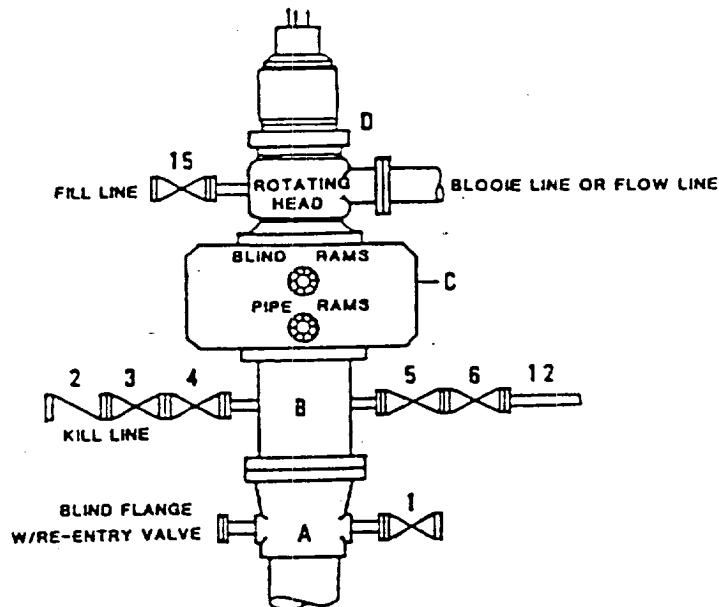
A two-man Mud Logging Unit will be used from 3600' to 12300'.

A drill stem test may be conducted in the Wolfcamp, if needed.

Sidewall cores (25) are planned for the Wolfcamp.

**DRILLING CONTROL
CONDITION II-B 3000 WP
FOR AIR DRILLING OR
WHERE NITROGEN OR AIR BLOWS ARE EXPECTED**

H₂S TRIM REQUIRED
YES _____ NO X



**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. |



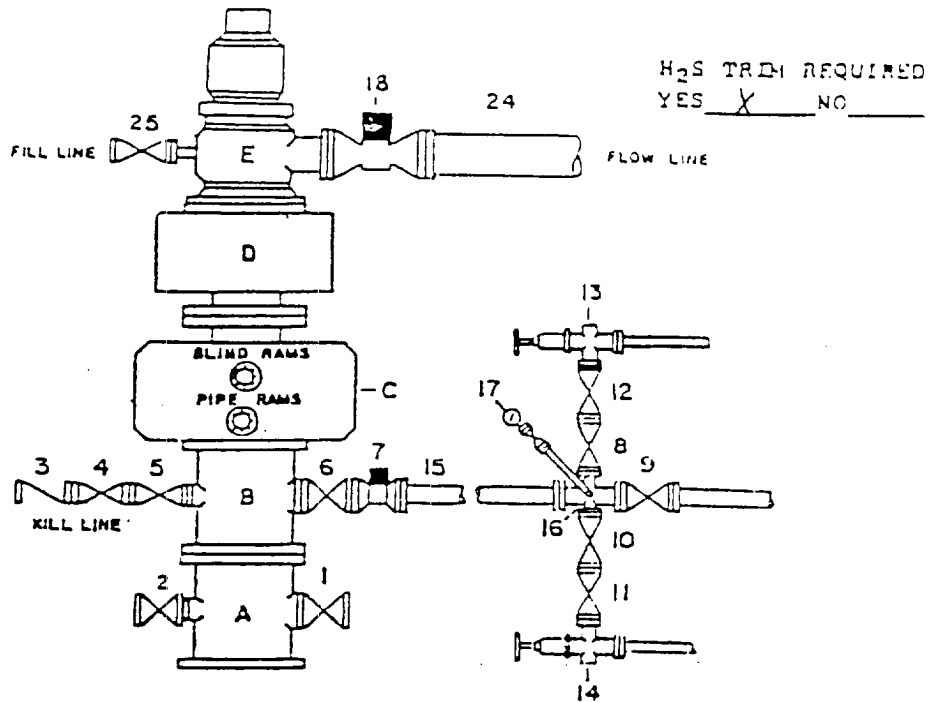
TEXACO, INC.
MIDLAND DIVISION
MIDLAND, TEXAS



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

EXHIBIT C

DRILLING CONTROL CONDITION IV-B-5000 PSI WP



DRILLING CONTROL

MATERIAL LIST - CONDITION IV - B

- A Texaco Wellhead
- B 5000# W.P. drilling spool with a minimum 2" flanged outlet for kill line and 1" minimum flanged outlet for choke line.
- C 5000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 5000# W.P. control lines.
- D 5000# W.P. Annular preventer, hydraulic operated with 1" steel, 5000# W.P. control lines.
- E Rotating Head with fill up outlet and extended Blooie line.
- 1,2,4,5, 8,10,11, 12 2" minimum 5000# W.P. flanged full opening steel gate Valve, or Halliburton Lo Torc Plug valve.
- 3 2" minimum 5000# W.P. back pressure valve.
- 6,9 1" minimum 5000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 7 1" minimum 5000# W.P. flanged hydraulic valve
- 15 1" minimum Schedule 160, Grade B, seamless line pipe
- 16 2" minimum x 1" 5000# W.P. flanged cross
- 13,14 2" minimum 5000# W.P. adjustable chokes with carbide trim.
- 17 Cameron Mud Gauge or equivalent (location in choke line optional).
- 18 4" minimum 1000# hydraulic flanged valve.
- 24 8" minimum steel flow line.
- 25 1" minimum 5000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.



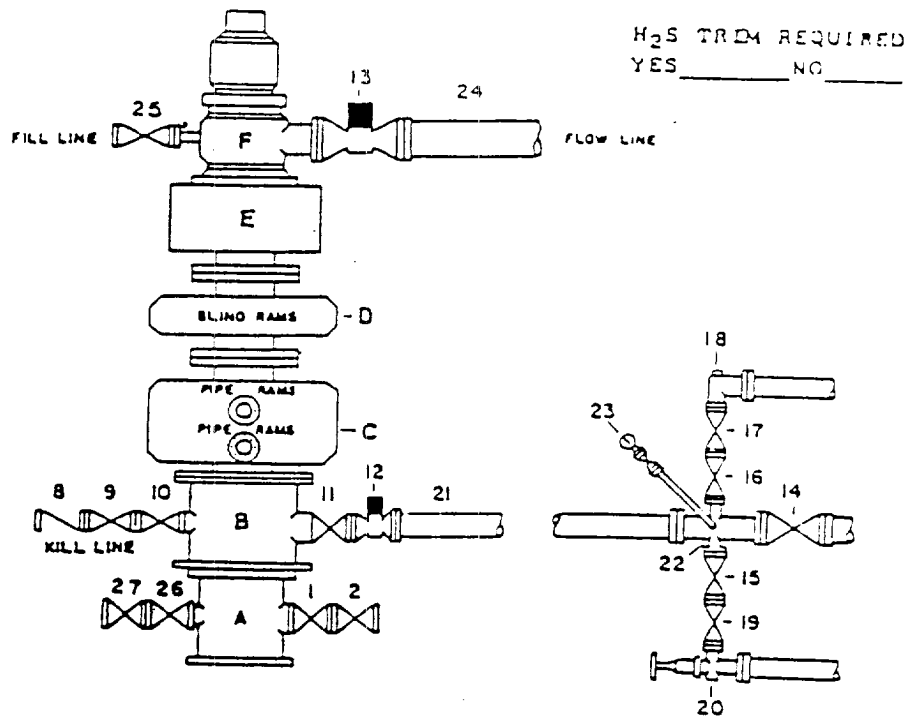
TEXACO, INC
MIDLAND DISTRICT
MIDLAND, TEXAS



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

EXHIBIT F-1

DRILLING CONTROL **CONDITION V-B - 10,000 PSI WP**



DRILLING CONTROL

MATERIAL LIST - CONDITION V-B

- | | |
|-------------------------------------|--|
| A | Texaco Wellhead |
| B | 10,000 W.P. Drilling Spool with a minimum 2" flanged outlet for kill line and 4" minimum flanged outlet for choke line |
| C | 10,000 W.P. Dual Variable Ram Type preventer, hydraulic operated with 1" steel, 5000 W.P. control line |
| D | 10,000 W.P. Single Ram Type preventer, hydraulic operated with 1" steel, 5000 W.P. control lines |
| E | 10,000 W.P. Annular preventer, hydraulic operated with 1" steel, 5000 W.P. control lines |
| F | <u>When Required</u> - Rotating Head with fill up outlet and extended choke line |
| 1, 2, 9, 10, 13, 16, 17, 19, 26, 27 | 2" minimum 10,000 W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve |
| 8 | 2" minimum 10,000 W.P. back pressure valve |
| 11, 14 | 4" minimum 10,000 W.P. flanged full opening steel gate valve |
| 12 | 4" minimum 10,000 W.P. flanged full opening hydraulic valve |
| 13 | <u>When Required</u> - 10" minimum 1000 W.P. flanged full opening hydraulic valve |
| 21 | 4" minimum 10,000 W.P. 4130 mechanical tubing with flanged ends, or equivalent |
| 22 | 2" minimum X 4" minimum 10,000 W.P. flanged cross |
| 18 | 2" minimum 10,000 W.P. automatic choke |
| 20 | 2" minimum 10,000 W.P. adjustable choke equipped with carbide trim |
| 23 | Cameron Mud Gauge or equivalent (location in choke line optional) |
| 24 | <u>When Required</u> - 10" steel flow line |
| 25 | 2" minimum 1000 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.	DRG. NO.
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			

EXHIBIT G-1

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

I hereby certify that I, or personnel under my supervision, have reviewed the applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common.

I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

A. Phil Ryan
 Print or Type Name

A. Phil Ryan
 Signature

Commission
Coordinator
 Title

5/16/01
 Date

RYANAP@TEXACO.COM
 e-mail Address



Texaco North America Production
Denver Region - Permian Business Unit

500 North Loraine
Midland TX 79701

P O Box 3109
Midland TX 79702

May 16, 2001

GOV – STATE AND LOCAL GOVERNMENTS

Unorthodox Location

Ross Ranch '10' Federal Well No. 2

Big Sinks South, Wolfcamp Field

Eddy County, New Mexico

State of New Mexico

Energy and Minerals Department

Oil Conservation Division

2040 South Pacheco

Santa Fe, New Mexico 87505

Attention: Mr. Michael E. Stogner

Gentlemen:

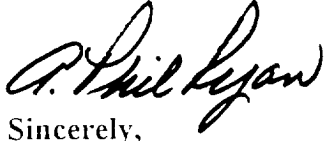
An Exception to Rule 104 F. (2) by administrative approval is requested for the captioned well. The well is located 1915' FNL & 150' FEL, Unit Letter "H", of Section 10, T-26-S, R-31-E.

This well must be drilled in this location due to geological conditions. It is believed the environment of deposition for Wolfcampian reservoirs in the Ross Ranch area represents detrital sediments. Lithologically these are composed of spiculitic limestones with fair to good porosity, but low matrix permeability (due to the spicumoldic nature of the rock). Fractures; therefore, enhance the permeability and productivity. Using attribute analysis on 3D seismic, Texaco believes it can find not only thicker zones of the Wolfcamp detrital, but; also, identify potentially fracture-enhanced reservoirs.

The attached map is a two mile square mile area (sections 10 & 11 from T-26-S, R-31-E) seismic attribute map identifying the Ross Ranch '10' Federal Well #2 as being the best opportunity for thicker and better reservoir rock in the Wolfcamp. To venture out of the thickest part of the Wolfcamp identified by seismic could reduce the reservoir quality considerably. Therefore, Texaco's reason for this location is seismically and geologically driven.

The well was originally proposed in Section 11, T-26-S, R-31-E. The BLM would not approve the location because it was in a playa and they recommended moving the well to the subject proposed location.

If there are any questions, please feel free to contact me at (915) 688-4606.

A handwritten signature in black ink, appearing to read "A. Phil Ryan". The signature is fluid and cursive, with the first name "A." and last name "Ryan" clearly distinguishable.

Sincerely,

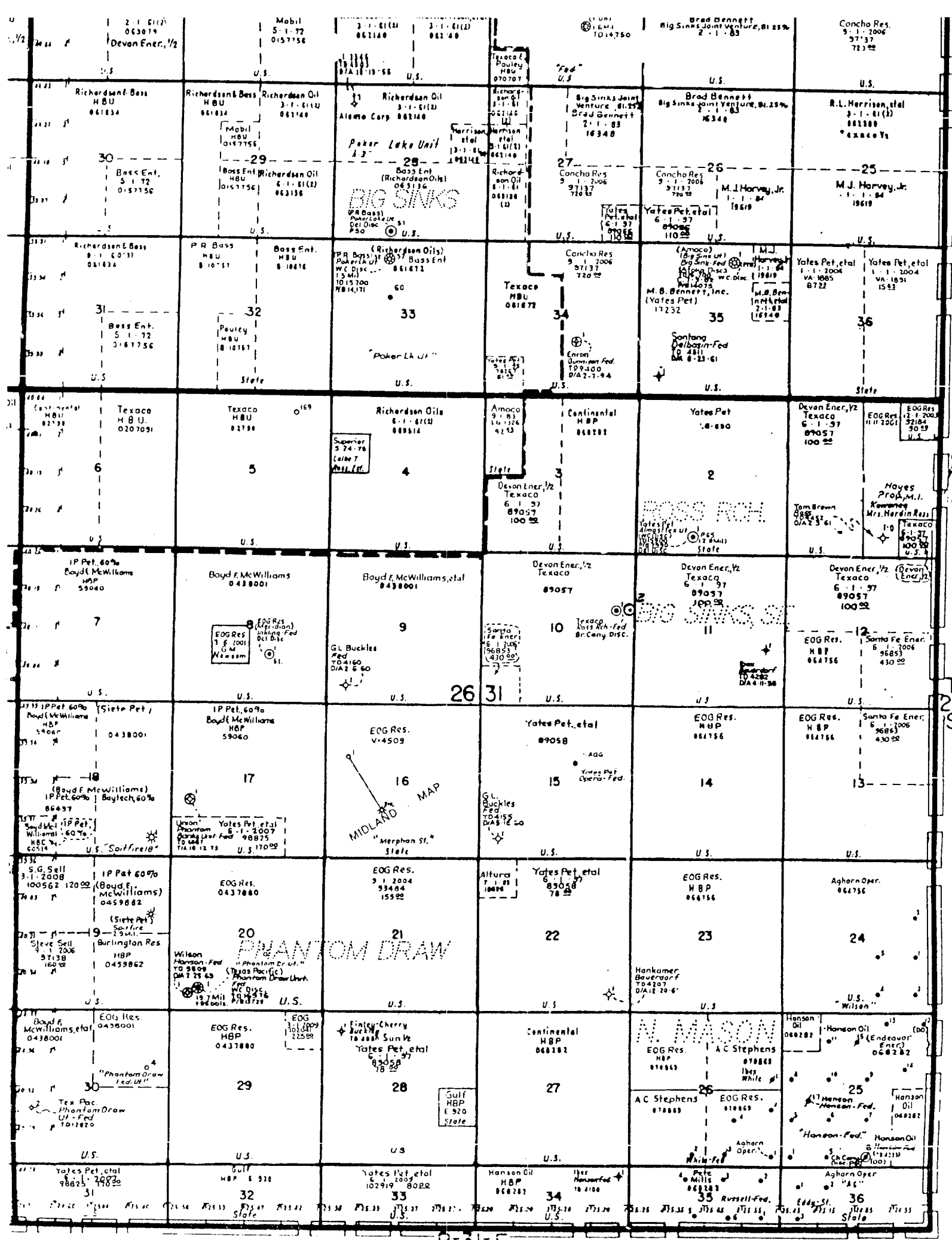
A. Phil Ryan
Commission Coordinator
Attachments
CC: BLM, Roswell, NM



Location - 1950' FNL & 150' FEL, Section 10,
T-26-S, R-31-E, Eddy County, New Mexico



Location - 1950' FNL & 150' FEL, Section 10,
T-26-S, R-31-E, Eddy County, New Mexico



OPERATOR - LANDOWNER AGREEMENT

COMPANY: TEXACO EXPLORATION AND PRODUCTION INC.

PROPOSED WELL: ROSS RANCH '10' FEDERAL NO. 2
FEDERAL LEASE NO. NM-89057

This is to advise that Texaco Exploration and Production Inc. has an agreement with:

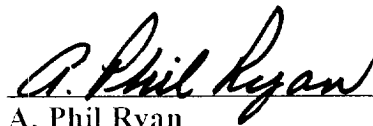
B & B Cattle Co., Attn. J. F. Hervella, El Paso, TX

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 leveled, all equipment and trash will be removed from well site. No other requirements were made concerning restoration of the well site.

4/30/2001

Date



A. Phil Ryan
Commission Coordinator
Midland, Texas

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Texaco Exploration and Production Inc.
P. O. Box 3109
Midland, TX 79702

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:


Lease No.: NM-89057

Legal Description of Land: Unit H, 1915' FNL & 150' FEL, Section 10, T-26-S, R-31-E.

Formations: Big Sinks South, Wolfcamp

Bond Coverage: Nationwide

BLM Bond File No.: CO-0058

Authorized Signature: 

Title: Commission Coordinator

Date: April 30, 2001

SURFACE USE AND OPERATIONS PLAN
FOR
TEXACO EXPLORATION AND PRODUCTION, INC.

ROSS RANCH "10" FEDERAL NO. 2
1915' FNL & 150' FEL, SECTION 10,
TWP. 26 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

LOCATED: 36 miles Southeasterly of Carlsbad, New Mexico

FEDERAL LEASE NUMBER: NM 89057

LEASE ISSUED: June 1, 1992

ACRES IN LEASE: 2160.00 Acres

RECORD LESSEE: TEXACO EXPLORATION AND PRODUCTION, INC.

SURFACE OWNERSHIP: USA

GRAZING PERMITTEE: B & B Cattle Co.
Attn.: J. F. Hervella
El Paso, Texas 79311

POOL: Big Sink South, Wolfcamp

POOL RULES: Field rules are for no wells to be located closer than 330' to any quarter-quarter section, to be 330' from the lease line, and 330' from the nearest well.

EXHIBITS: A. Access Road and Facilities Map

B. Drilling Rig Layout Diagram

C. Well Location and Acreage Dedication Plat - 40 Acres

1. EXISTING ACCESS ROADS

A. Exhibit "A" is an enlarged portion of a 7.5 minute U.S.G.S. topographic map showing the proposed well site and the existing roads in the area. Point "A" is the intersection of an existing resource road with Lea County Road No. 1. Said intersection is 9.25 miles South of the intersection of Lea County Road No. 1 with State Highway 128 which is 30 miles West of Jal, New Mexico and 32 miles East of Loving, New Mexico. From Point "A" go 5.1 miles West and 0.3 miles South (Shown in Brown) along an existing resource road to Point "B", the beginning of the proposed resource road as shown on Exhibit "A".

2. PLANNED RESOURCE ROAD

A. Length and Width: From Point "B" as shown on Exhibit "A", a new 14 foot wide Resource road will be constructed approximately 500 feet East to the Northeast corner of the proposed well pad, as shown on Exhibits "A" and "B".

B. Surfacing Material: Caliche material will be used to surface the proposed road. It will be watered, compacted, and graded.

C. Maximum Grade: An approximate grade of one percent will be encountered, descending from Point "B" to the proposed well pad.

D. Turnouts: None required.

E. Drainage Design: The new road will be crowned at the center to direct drainage to ditches on both sides of the roadway with turnout ditches to be constructed if required.

F. Culverts: None will be required.

G. Cuts and Fills: A very slight amount of leveling will be required as the road crosses small size sand dunes to the proposed well pad.

H. Gates and Cattle Guards: None will be required.

3. LOCATION OF EXISTING WELLS

A. Existing wells on the lease and in the immediate area are shown on Exhibit "A".

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

A. The oil, gas, and/or water that this well will produce will be stored at the proposed tank battery to be constructed on the proposed well site as shown on Exhibits "A" and "B".

- B. An electric power line will not need to be built.

5. LOCATION AND TYPE OF WATER SUPPLY

A. It is not contemplated that a water well would be drilled. Water necessary for drilling operations will be purchased and trucked to the well site or will be transported to the well site by a temporary pipeline laid on the ground alongside the existing and proposed roads.

6. SOURCE OF CONSTRUCTION MATERIALS

A. Caliche needed for the road and well pad will be taken from the proposed borrow pit located within the 400 x 400' archaeologically cleared tract at the proposed well site (See Exhibit "B" for location). If sufficient quality or quantity of caliche is not available, it will be transported to the proposed road and well site from the existing pit in the NW/4 of Section 2, T25S, R31E, by the existing resource roads.

7. METHOD OF HANDLING WASTE DISPOSAL

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits.
- D. Oil produced during tests will be stored in test tanks until sold.
- E. Trash, waste paper, garbage and junk will be placed in a trash bin located on the drill site pad. It will be transported to an approved landfill for disposal within 30 days after completion of drilling and/or completion of operations. All waste material will be contained to prevent scattering by the wind.

8. ANCILLARY FACILITIES

- A. None required.

9. WELL SITE LAYOUT

- A. Exhibit "B" shows the relative location and dimensions of the well pad, mud pits, and borrow pit, and the location of the major rig components.
- B. Cut and fill requirements will be minor, but clearing and leveling of the well site will be necessary.

10. PLANS FOR RECLAMATION OF THE SURFACE

A. After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location will be cleaned of all trash and junk to leave the well site in an aesthetically pleasing condition as possible.

B. Any unguarded pits containing fluids will be fenced until the pits are dry.

C. After abandonment, all equipment, trash and junk will be removed and the well site will be cleaned. Any special reclamation and/or special revegetation requirements of the Surface Management Agency will be complied with and will be accomplished as rapidly as possible.

11. OTHER INFORMATION

A. Topography: The land surface in the area of the well is relatively level with small and moderate sand dunes. Regionally, the land slopes to the Southeast with average slopes of one percent.

B. Soil: Top soil at the well site is a deep sand loam.

C. Flora and Fauna: The vegetation cover is moderate. It includes range grasses, weeds, scrub oak bushes, and mesquite bushes. Wildlife in the area is that typical of a semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, hawks, dove, quail and other small birds.

D. Ponds and Streams: There are no rivers, lakes, ponds, or streams in the area.

E. Residences and Other Structures: There are no occupied dwellings or other structures within $\frac{3}{4}$ of a mile of the well site.

F. Archaeological, Historical, or other Cultural Sites: None were observed in the area.

G. Land Use: Grazing oil and gas production, and wildlife habitat.

H. Surface Ownership: Federal

12. OPERATOR'S REPRESENTATIVE

A. Phil Ryan
Commission Coordinator
Texaco Exploration & Production, Inc.
P. O. Box 3109

Midland, Texas 79702

Office Phone: (915) 688-4606

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which currently exist, that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Texaco Exploration and Production, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

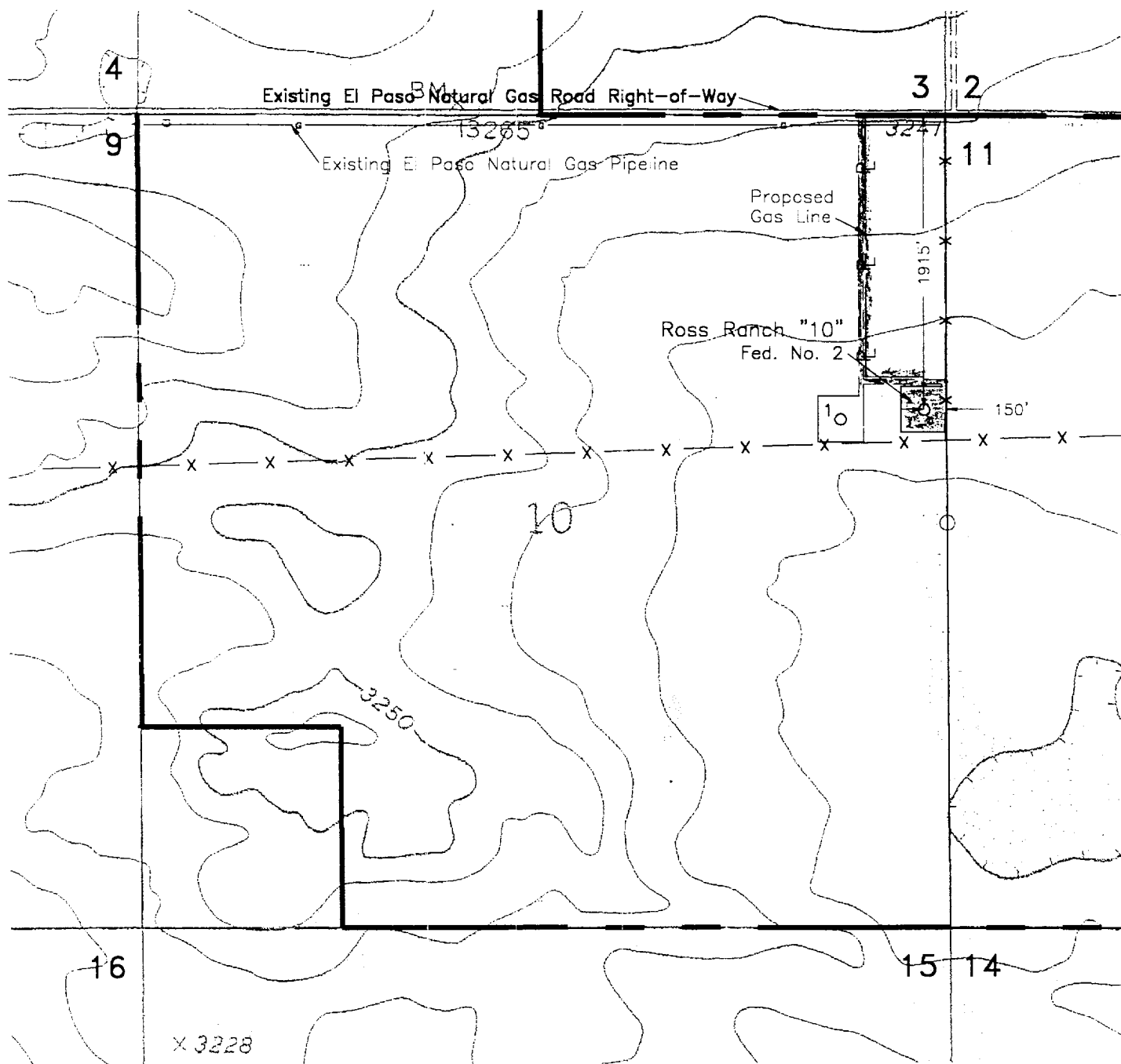
4/30/01

Date

A. Phil Ryan

A. Phil Ryan
Commission Coordinator
Midland, Texas

Enclosures
jsp



LEGEND OF SYMBOLS

- ==== Access Road (Yellow)
- ==== Resource Road on Federal Land (Pink)
- ==== Resource Road on State Land (Blue)
- ==== Resource Road on Private Land (Purple)
- ==== Resource Road on Lease (Brown)
- ==== Proposed Resource Road (Red)
- E— Proposed Electric Line (Orange)
- G— Proposed Gas Line (Green)
- o = Staked Well Location
- = Producing Well Location
- ⊙ = Water Injection Well
- o = Found 1/2" Iron Pipe with Brass Cap
- o = Found 2" or 3" Iron Pipe With Brass Cap
- Unit or Lease Boundary

EXHIBIT "A" ACCESS ROAD AND FACILITIES MAP

TEXACO EXPLORATION AND PRODUCTION INC.

ROSS RANCH "10" FEDERAL No. 2
Located 1915' FNL & 150' FEL, Section 10,
T-26-S, R-31-E, NMPM, Eddy County, NM

Drawn by: Gene M. Rodriguez

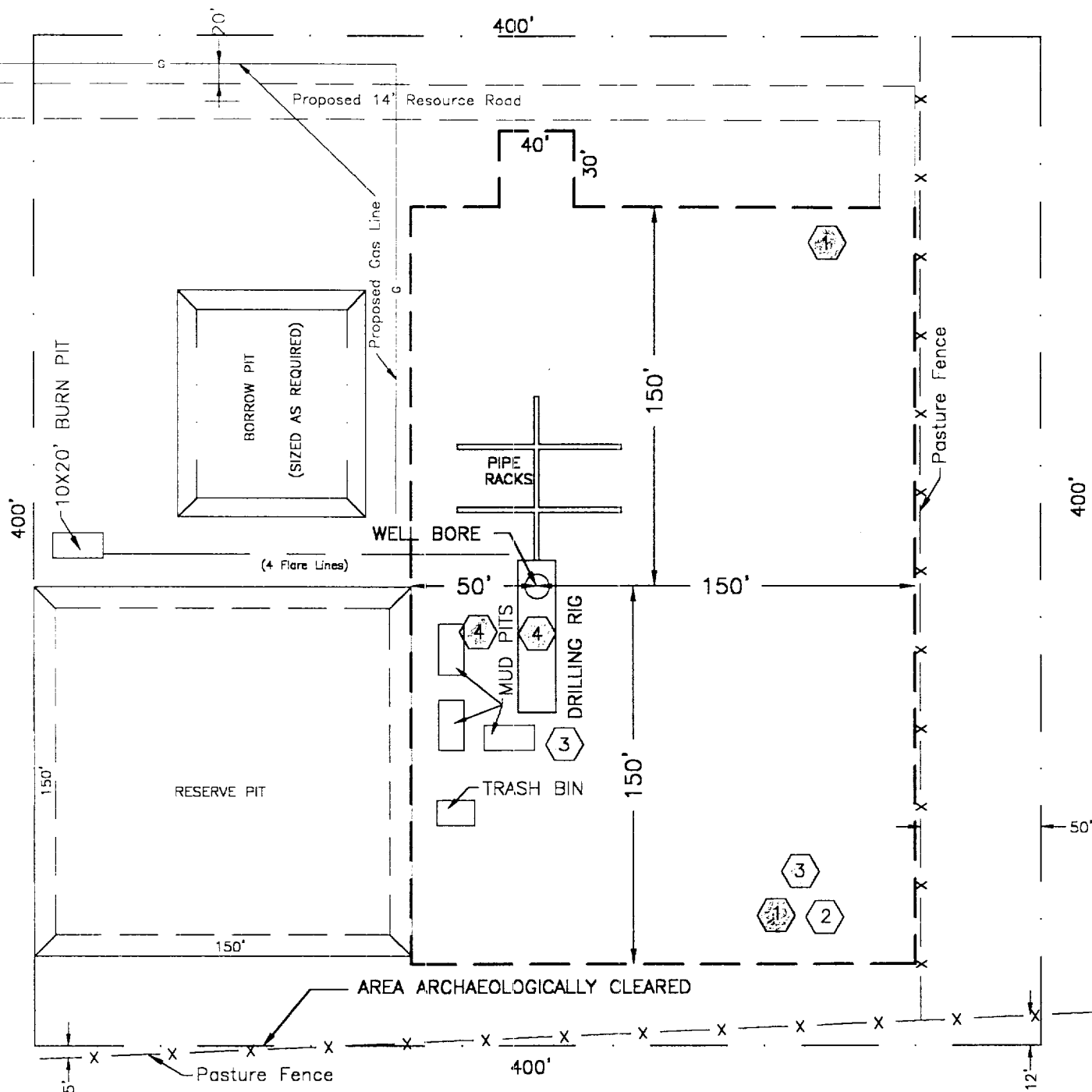
Scale: 1" = 1000'

Date: April 3, 2001

Phil Ryan

Checked by: J.S. Piper

Drawing File: Ross10_2A.Dwg







- H₂S DRILLING OPERATION PLAN**
- N**
-  Briefing Station
 -  H₂S Safety Trailer
 -  Windssocks
 -  H₂S Detectors, Shale Shaker, Rotating Head, Rig Floor
- Prevailing Wind from the South

EXHIBIT "B"	
DRILLING RIG LAYOUT	
TEXACO EXPLORATION AND PRODUCTION INC.	
ROSS RANCH "10" FEDERAL No. 2 Located 1915' FNL & 150' FEL, Section 10, T-26-S, R-31-E, NMPM, Eddy County, NM	
Drawn by: Gene M. Rodriguez	Scale: 1" = 60'
Date: April 3, 2001	A. Phil Ryan
Checked by: J. S. Piper	Drawing File: ROSS10_2B.Dwg

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

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

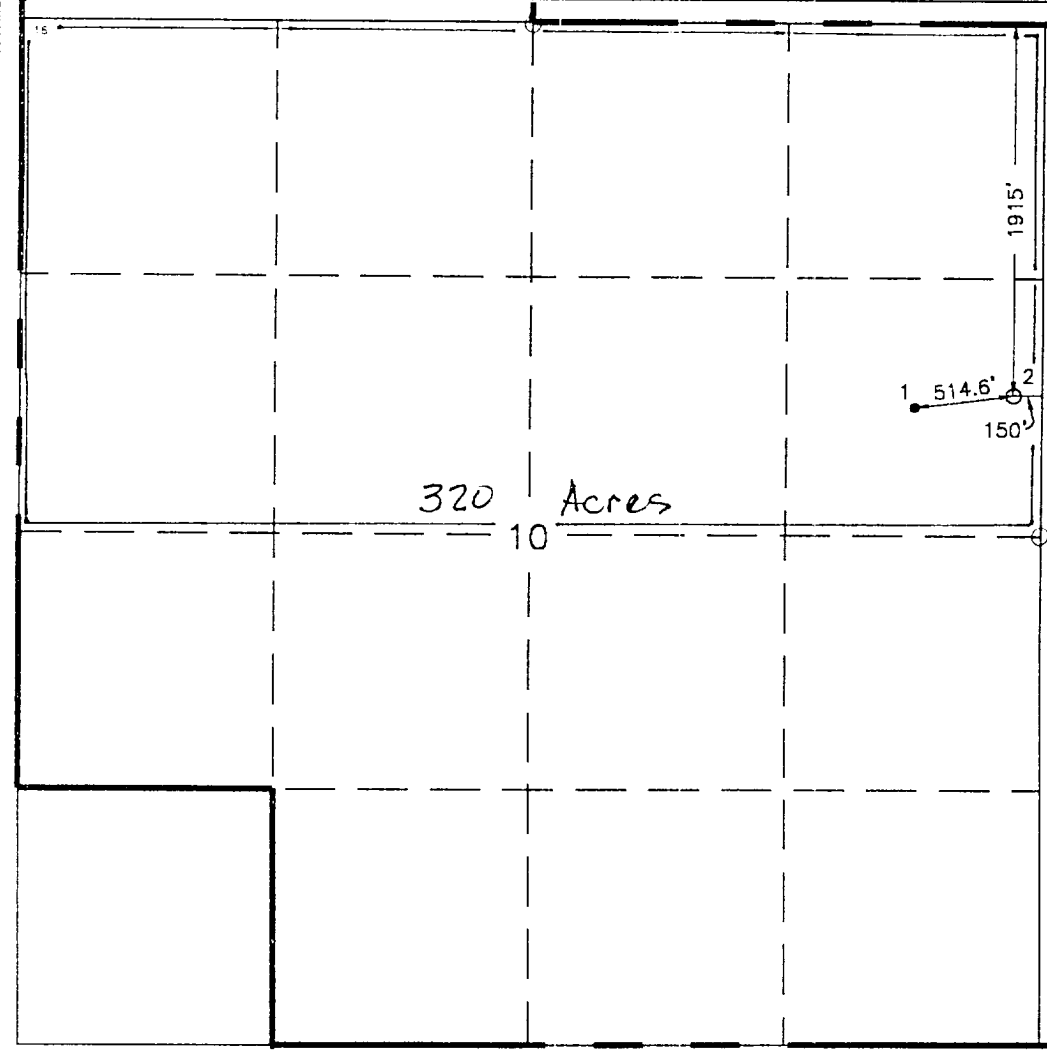
State Lease-4 copies
Fee Lease-3 copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

1 API Number		2 Pool Code		3 Pool Name Big Sinks South; Wolfcamp					
4 Property Code		5 Property Name Ross Ranch "10" Federal						6 Well Number 2	
7 GRID No. 22351		8 Operator Name TEXACO EXPLORATION & PRODUCTION, INC.						9 Elevation 3214'	
10 Surface Location									
11 or lot no. H	Section 10	Township 26-S	Range 31-E	Lot Idn	Feet from the 1915'	North/South line North	Feet from the 150'	East/West line East	12 County Eddy
13 Bottom Hole Location If Different From Surface									
14 or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	15 County
16 Dedicated Acres 320		17 Joint or Infill		18 Consolidation Code		19 Order No.			

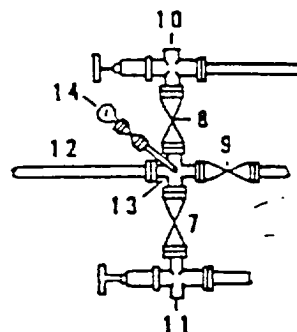
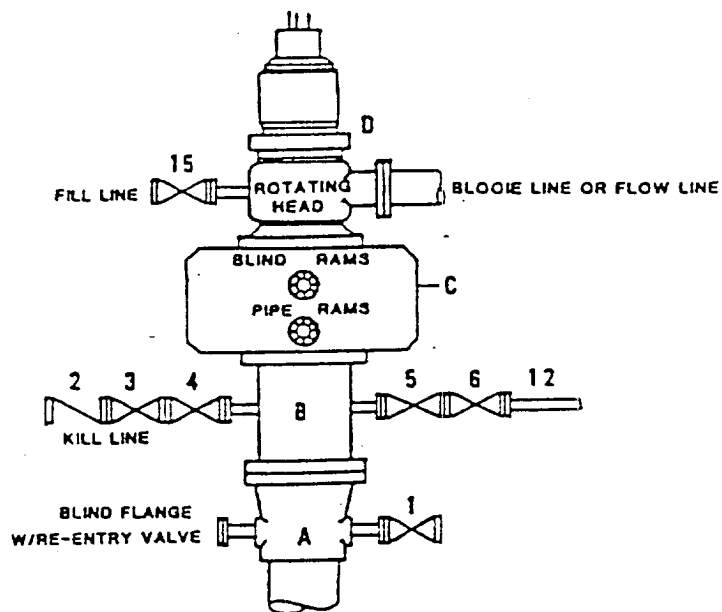
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.

	10 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
	Signature <i>A. Phil Ryan</i>	
	Printed Name A. Phil Ryan	
	Position Commissioner Coordinator	
	Company Texaco Expl. & Prod. Inc.	
	Date April 3, 2001	
	18 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 March 29, 2001	
	Signature & Seal of Professional Surveyor <i>John S. Piper</i>	
	Certificate No. 7254 John S. Piper	
Sheet		

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

**DRILLING CONTROL
CONDITION II-B 3000 WP
FOR AIR DRILLING OR
WHERE NITROGEN OR AIR BLOWS ARE EXPECTED**

H₂S TRIM REQUIRED
YES _____ NO X



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. |



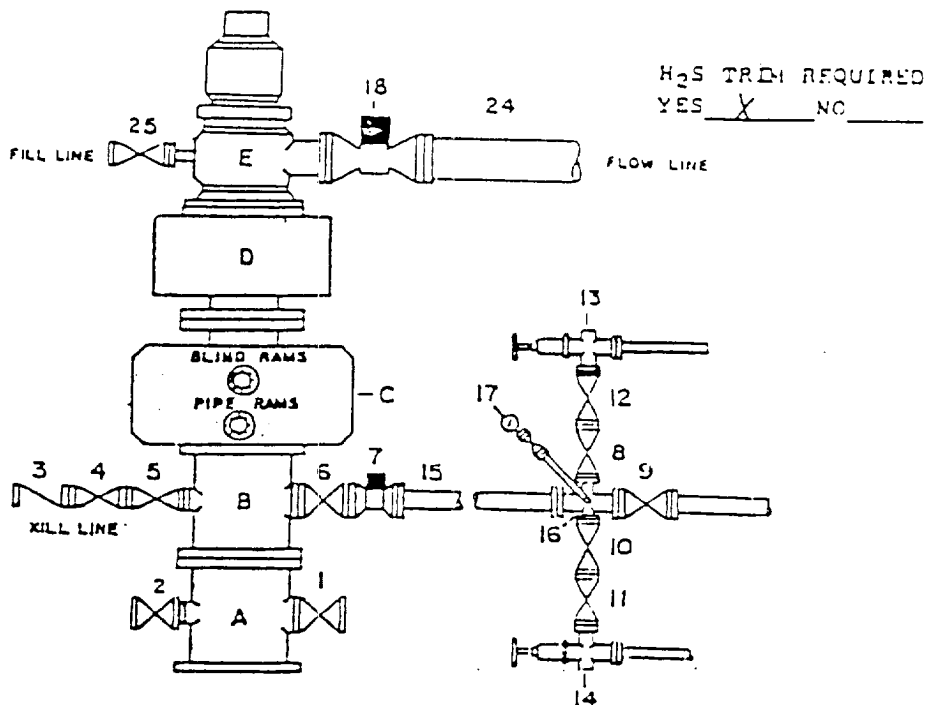
TEXACO, INC.
MIDLAND DIVISION
MIDLAND, TEXAS



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

EXHIBIT C

DRILLING CONTROL
CONDITION IV-B-5000 PSI WP



DRILLING CONTROL

MATERIAL LIST - CONDITION IV - B

- | | |
|----------------------|--|
| A | Texaco Wellhead |
| B | 5000# W.P. drilling spool with a minimum 2" flanged outlet for kill line and 1" minimum flanged outlet for choke line. |
| C | 5000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 5000# W.P. control lines. |
| D | 5000# W.P. Annular preventer, hydraulic operated with 1" steel, 5000# W.P. control lines. |
| E | Rotating Head with fill up outlet and extended Bloose line. |
| 1,2,4,5, 8,10,11, 12 | 2" minimum 5000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| 1 | 2" minimum 5000# W.P. back pressure valve. |
| 6,9 | 1" minimum 5000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| 7 | 1" minimum 5000# W.P. flanged hydraulic valve |
| 15 | 1" minimum Schedule 160, Grade B, seamless line pipe |
| 16 | 2" minimum x 1" 5000# W.P. flanged cross |
| 13,14 | 2" minimum 5000# W.P. adjustable chokes with carbide trim. |
| 17 | Cameron Mud Gauge or equivalent (location in choke line optional). |
| 18 | 6" minimum 1000# hydraulic flanged valve. |
| 24 | 8" minimum steel flow line. |
| 25 | 2" minimum 5000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve. |



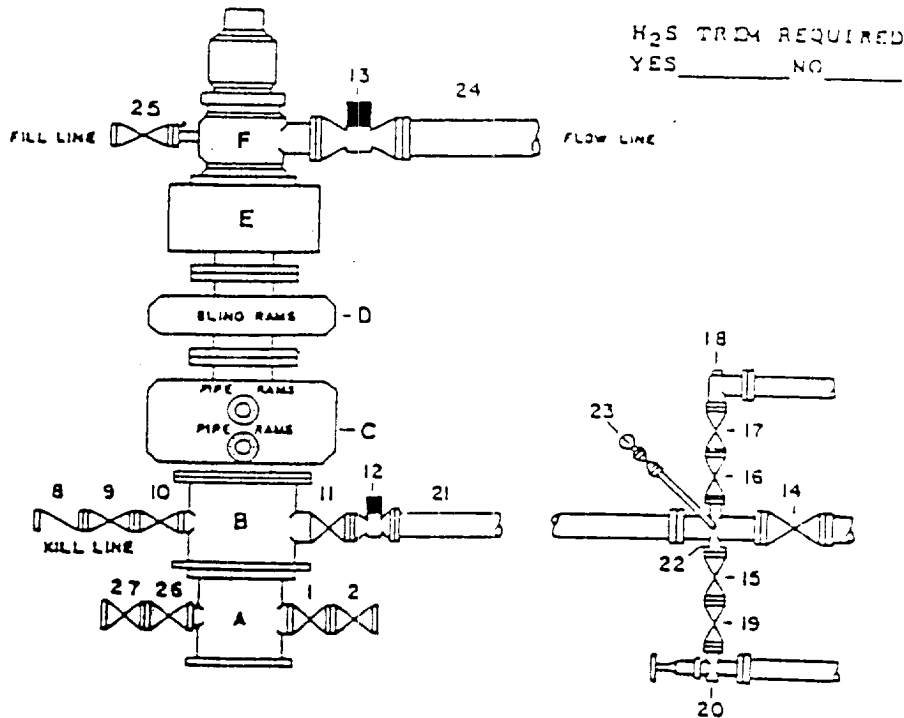
TEXACO, INC
MIDLAND DIVISION
MIDLAND, TEXAS



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

EXHIBIT F-1

DRILLING CONTROL CONDITION V-B - 10,000 PSI WP



- | | |
|------------------------------|--|
| A | Texas Wellhead |
| B | 10,000 W.P. Drilling Spool with a minimum 2" flanged outlet for kill line and 4" minimum flanged outlet for choke line |
| C | 10,000 W.P. Dual Variable Ram Type preventer, hydraulic operated with 1" steel, 3000 W.P. control line |
| D | 10,000 W.P. Single Ram Type preventer, hydraulic operated with 1" steel, 3000 W.P. control lines |
| E | 10,000 W.P. Annular preventer, hydraulic operated with 1" steel, 3000 W.P. control lines |
| F | When Required - Rotating Head with fill up outlet and extended choke line |
| 1,2,9,10, 13,14,17, 19,26,27 | 2" minimum 10,000 W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug Valve |
| 8 | 2" minimum 10,000 W.P. back pressure valve |
| 11,14 | 4" minimum 10,000 W.P. flanged full opening steel gate valve |
| 12 | 4" minimum 10,000 W.P. flanged full opening hydraulic valve |
| 13 | When Required - 10" minimum 1000 W.P. flanged full opening hydraulic valve |
| 21 | 4" minimum 10,000 W.P. 4130 mechanical tubing with flanged ends, or equivalent |
| 22 | 2" minimum X 4" minimum 10,000 W.P. flanged cross |
| 18 | 2" minimum 10,000 W.P. automatic choke |
| 20 | 2" minimum 10,000 W.P. adjustable choke equipped with carbide trim |
| 23 | Cameron Mud Gauge or equivalent (location in choke line optional) |
| 24 | When Required - 10" steel flow line |
| 25 | 2" minimum 1000 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	DRG NO
DRAWN BY			
CHECKED BY			
APPROVED BY			

EXHIBIT G-1

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

ROSS RANCH '10' FEDERAL WELL No. 2

RADIUS OF EXPOSURE

100 PPM: 199 feet

500 PPM: 91 feet Based on 4300 PPM H₂S and 692 MCF.

TRAINING

Every person involved in the wellsite operation will be informed of the characteristics of hydrogen sulfide, its danger, safe procedures to be used when it is encountered, use of detection equipment, use of protective breathing equipment, and first aid procedures for regular rig personnel.

On site training will be provided by Texaco prior to reaching Order 6 compliance depth. The Texaco Drilling Supervisor is responsible for insuring all persons working on location have been provided training.

EXHIBIT A

Topographic map of location and surrounding area.

EXHIBIT B

The wellsite layout contains the following information:

1. Drill rig orientation
2. Prevailing wind direction
3. Location of all briefing areas
4. Location of access road
5. Location of flare line
6. Location of windsocks
7. Location of H₂S Safety Trailer

EXHIBIT C

Well Control Equipment

PROTECTIVE EQUIPMENT

4 - 30 minute SCBA's: 2 located at each Briefing Station. An additional SCBA will be located at the Tool Pusher's trailer, if used.

5 - 5 minute escape packs will be located in the Dog House.

Means of communication while using protective equipment will be hand signals.

H2S SENSORS

H2S sensors will be located at (1) Shale Shaker (2) Rotating Head and (3) Rig Floor.

A light will be located on the rig floor. It will be set to go off at 10 PPM. It will be visible from anywhere on the location.

A siren will be located on the rig floor. It will be set to go off at 15 PPM.

Texaco Drilling Supervisor will maintain a portable H2S monitor.

MUD PROGRAM

A Fresh Water/ Brine system will be used. Ph will be maintained at 10 or higher if H2S is encountered. Sufficient quantities of H2S scavenger will be on location for use as required.

Drilling will be through an on site gas separator to separate gas from the drilling fluid with gas vented down a flare line equipped with an igniter.

METALLURGY

All wellheads, trees, BOP's, rotating heads, choke manifolds and piping will be constructed/trimmed with materials suitable for H2S service.

All casing and tubing will be no greater than 80000 psi yield strength and no greater than a Rockwell C-22 hardness.

OTHER REQUIREMENTS OF ORDER 6

The flare line (item 4 of exhibit I) will be equipped with a propane ignition.

The flare gun and flares will be located in the H2S Safety Trailer.

Communications for the location will be by Rig Telephone.

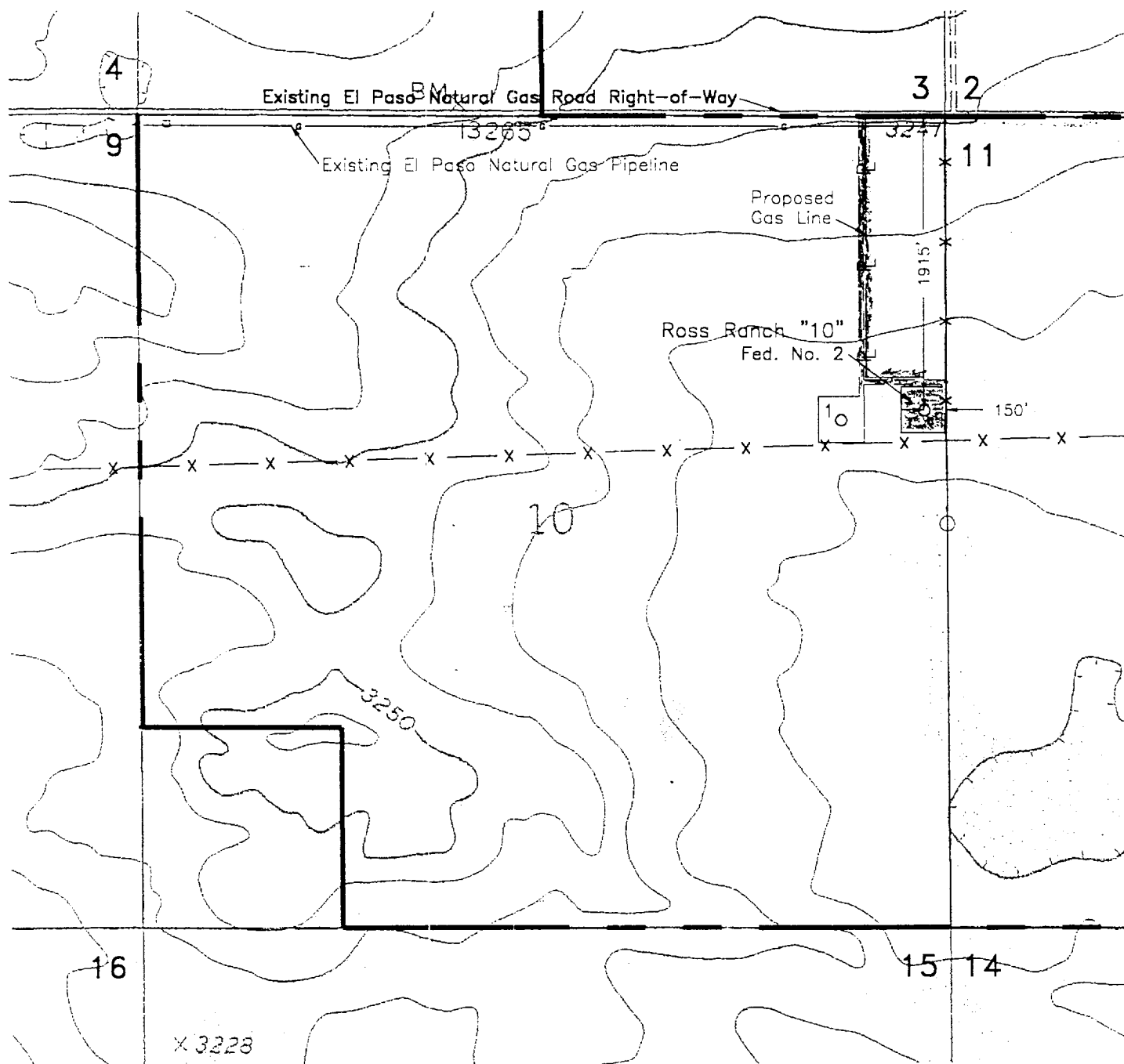
Wind direction indicators will be on the rig floor and at one briefing station with at least one visible from all points on the location.

Caution/danger signs and flags will be maintained at all entrances into the location.

An automatic remote-controlled choke will not be used. We will have installed and tested two manual, H2S trimmed, chokes.

WELL TESTING

DST's may be conducted in the Morrow formation.



LEGEND OF SYMBOLS

- ==== Access Road (Yellow)
- ==== Resource Road on Federal Land (Pink)
- ==== Resource Road on State Land (Blue)
- ==== Resource Road on Private Land (Purple)
- ==== Resource Road on Lease (Brown)
- ==== Proposed Resource Road (Red)
- E— Proposed Electric Line (Orange)
- G— Proposed Gas Line (Green)
- o = Staked Well Location
- = Producing Well Location
- = Water Injection Well
- o = Found 1 1/2" Iron Pipe with Brass Cap
- o = Found 2" or 3" Iron Pipe With Brass Cap
- Unit or Lease Boundary

EXHIBIT "A" ACCESS ROAD AND FACILITIES MAP

TEXACO EXPLORATION AND PRODUCTION INC.

ROSS RANCH "10" FEDERAL No. 2
Located 1915' FNL & 150' FEL, Section 10,
T-26-S, R-31-E, NMPM, Eddy County, NM

Drawn by: Gene M. Rodriguez

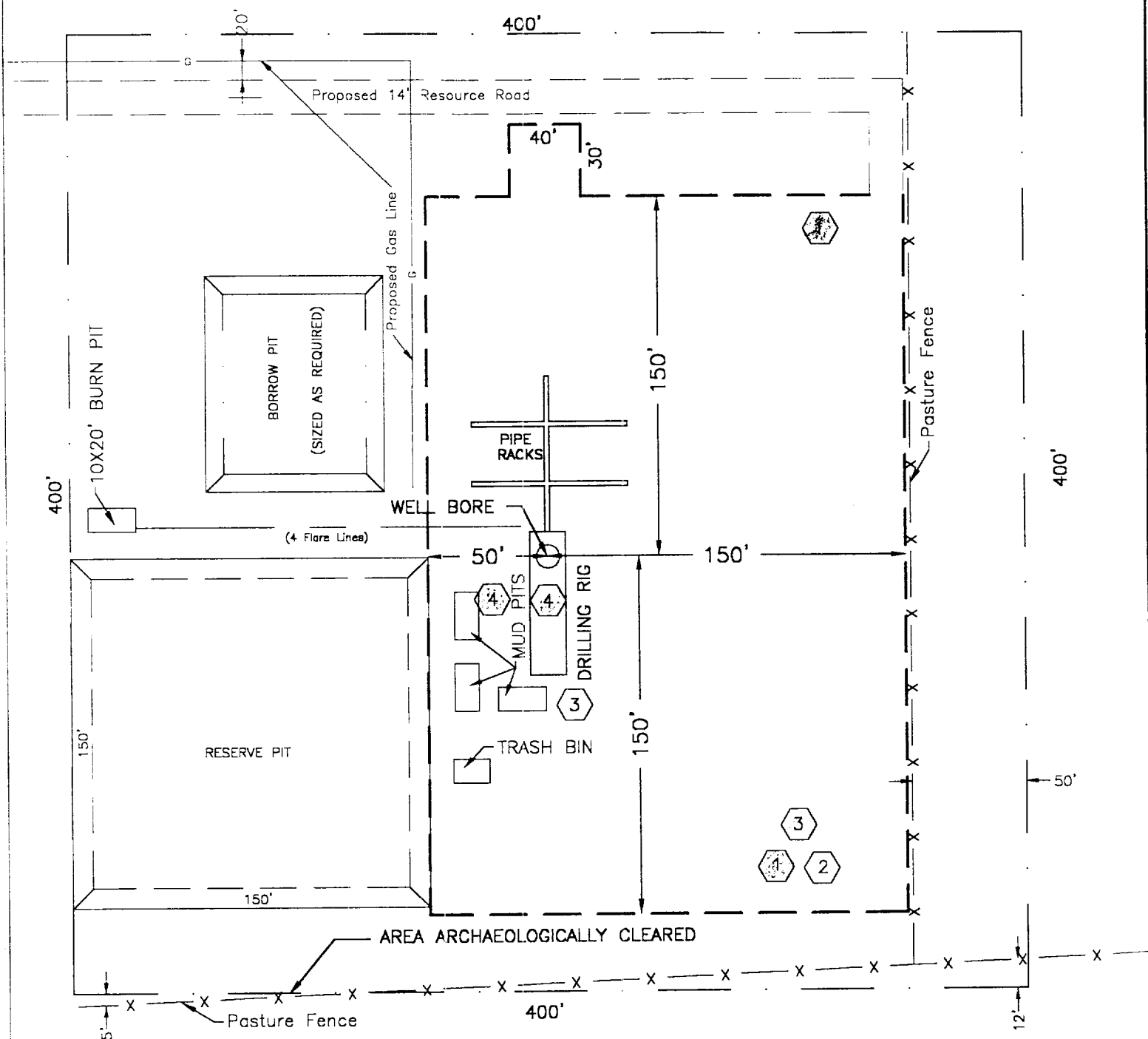
Scale: 1" = 1000'

Date: April 3, 2001

Phil Ryan

Checked by: J.S. Piper

Drawing File: Ross10_2A.Dwg



H₂S DRILLING OPERATION PLAN



Briefing Station



H₂S Safety Trailer



Windsocks



H₂S Detectors, Shale Shaker, Rotating Head, Rig Floor

Prevailing Wind from the South

EXHIBIT "B" DRILLING RIG LAYOUT

TEXACO EXPLORATION AND PRODUCTION INC.

ROSS RANCH "10" FEDERAL No. 2
Located 1915' FNL & 150' FEL, Section 10,
T-26-S, R-31-E, NMPM, Eddy County, NM

Drawn by: Gene M. Rodriguez

Scale: 1" = 60'

Date: April 3, 2001

A. Phil Ryan

Checked by: J. S. Piper

Drawing File: ROSS10_2B.Dwg

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994

Instructions on back

OIL CONSERVATION DIVISION

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

Submit to Appropriate District Office

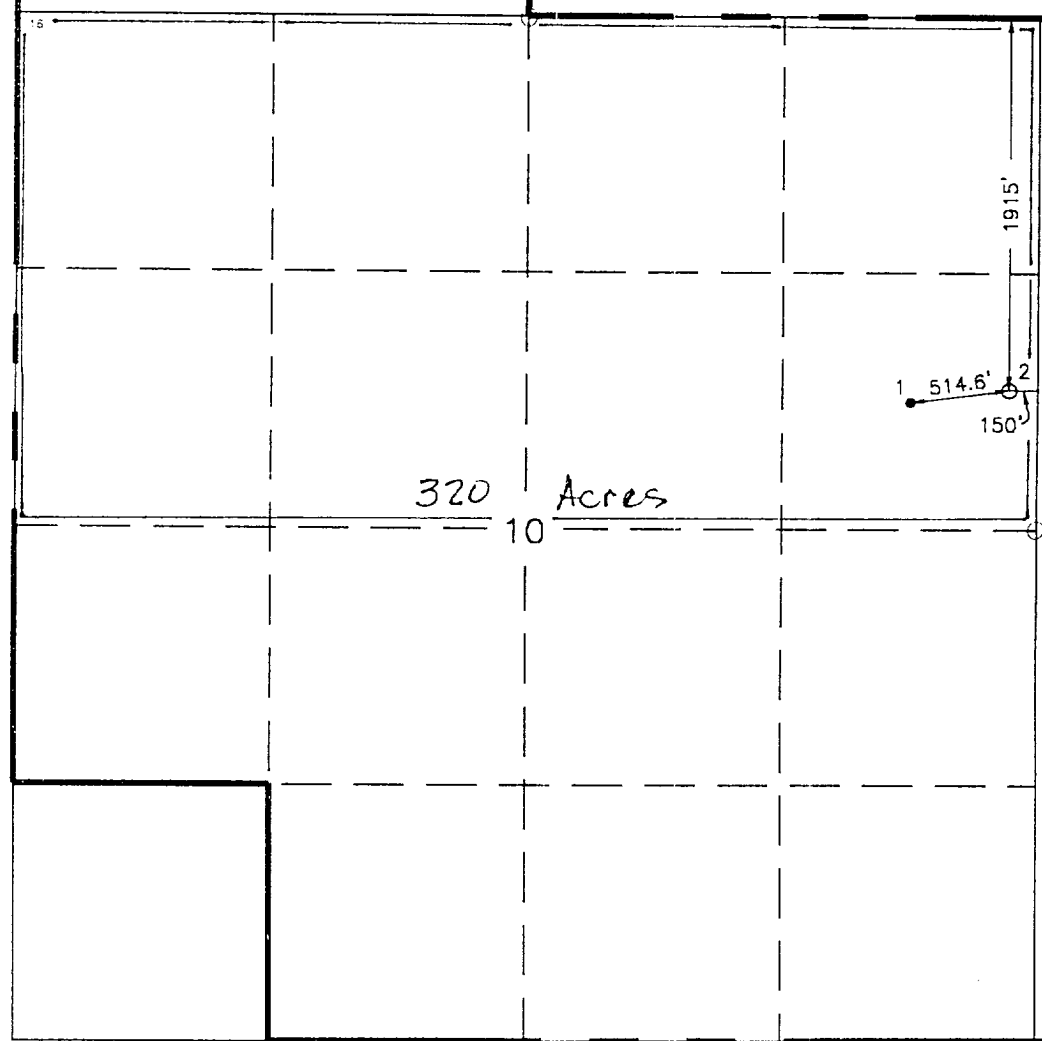
State Lease-4 copies
Fee Lease-3 copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

¹ API Number		² Pool Code		³ Pool Name Big Sinks South; Wolfcamp					
⁴ Property Code		⁵ Property Name Ross Ranch "10" Federal						⁶ Well Number 2	
⁷ DDRI No. 22351		⁸ Operator Name TEXACO EXPLORATION & PRODUCTION, INC.						⁹ Elevation 3214'	
¹⁰ Surface Location									
¹¹ UL or lot no. H	Section 10	Township 26-S	Range 31-E	Lot lan	Feet from the 1915'	North/South line North	Feet from the 150'	East/West line East	¹² County Eddy
¹³ Bottom Hole Location If Different From Surface									
¹⁴ UL or lot no.	Section	Township	Range	Lot lan	Feet from the	North/South line	Feet from the	East/West line	¹⁵ County
¹⁶ Dedicated Acres 320		¹⁷ Joint or Infill		¹⁸ Consolidation Code		¹⁹ Order No.			

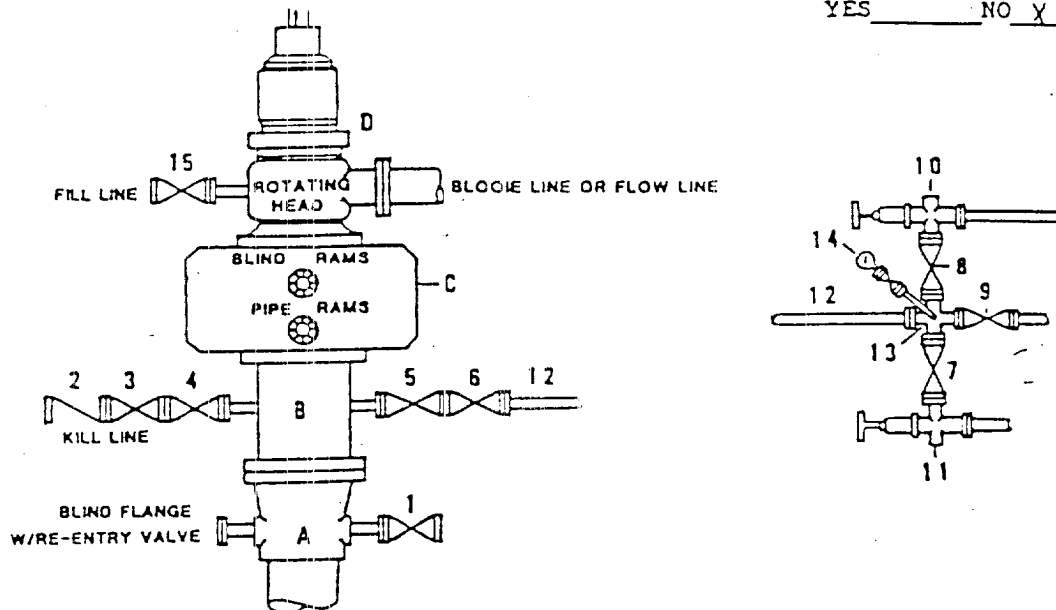
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
	Signature <i>A. Phil Ryan</i>
	Printed Name A. Phil Ryan
	Position Commissioner Coordinator
	Company Texaco Expl. & Prod. Inc.
	Date April 3, 2001
	¹⁸ 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 March 29, 2001
	Signature & Seal of Professional Surveyor <i>John S. Piper</i>
	Certificate No. 7254 John S. Piper

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

**DRILLING CONTROL
CONDITION II-B 3000 WP
FOR AIR DRILLING OR
WHERE NITROGEN OR AIR BLOWS ARE EXPECTED**

H₂S TRIM REQUIRED
YES _____ NO X



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 Blooie 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 1" 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.	DRG. NO.
DRAWN BY			
CHECKED BY			
APPROVED BY			

EXHIBIT C