

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER ☐

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Texaco Producing Inc.

3. ADDRESS OF OPERATOR

P. O. Box 728, Hobbs, New Mexico 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1980' FNL & 660' FEL (Unit Letter H)

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

30 Miles East Southeast of Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

660

16. NO. OF ACRES IN LEASE

960

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

1867

19. PROPOSED DEPTH

8450'

20. ROTARY OR CABLE TOOLS

Rotary

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

3612 GR

22. APPROX. DATE WORK WILL START*

August 7, 1989

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	65#	40'	Redimix
15"	11-3/4"	47#	840'	675 sacks CIRCULATE
10-5/8"	8-5/8"	24# & 32#	4250'	1050 sacks CIRCULATE
7-7/8"	5-1/2"	15.5# & 17#	8450'	1375 sacks

CEMENTING PROGRAM

SURFACE CASING: 675 sacks Class "H" & 1/4#/sack Flocele & 2% CaCl (15.6 ppg 1.18 cu. ft/sx., 5.2 gallons water/sack).

INTERMEDIATE CASING: 800 sacks Lightweight & 13% Salt & 1/4#/sack Flocele (12.4 ppg, 2.1 cu. ft/sx., 10.9 gallons water/sx) and 250 sacks Class "H" & 1/4#/sack Flocele (15.6 ppg, 1.18 cu. ft./sx., 5.2 gallons water/sack).

PRODUCTION CASING: 1st Stage: 725 sacks Class "H" & 1/4# Flocele/sx & .4% Halad-9 (15.6 ppg, 1.18 cu.ft/sx, 5.2 gal water/sx). 2nd Stage: 650 sacks Lightweight & 1/4# Flocele/sx (12.4 ppg, 1.97 cu ft/sx, 10.9 gallons water/sx). DV Tool @ 6000'.

There are no other wells 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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

W.B. Cade

TITLE

W. B. Cade

District Operations Mgr.

DATE

7/18/89

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Post ID-1
8-18-89
New Doc

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

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.

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator TEXACO PRODUCING INC.			Lease Federal NEFF "13"		Well No. 2
Unit Letter H	Section 13	Township T-22-S	Range R-31-E	County NMPM Eddy	
Actual Footage Location of Well: 1980 feet from the North line and 660 feet from the East line					
Ground level Elev. 3612	Producing Formation Brushy Canyon		Pool Livingston Ridge		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 interest 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 interest, has been approved by the Division.

OPERATOR CERTIFICATION

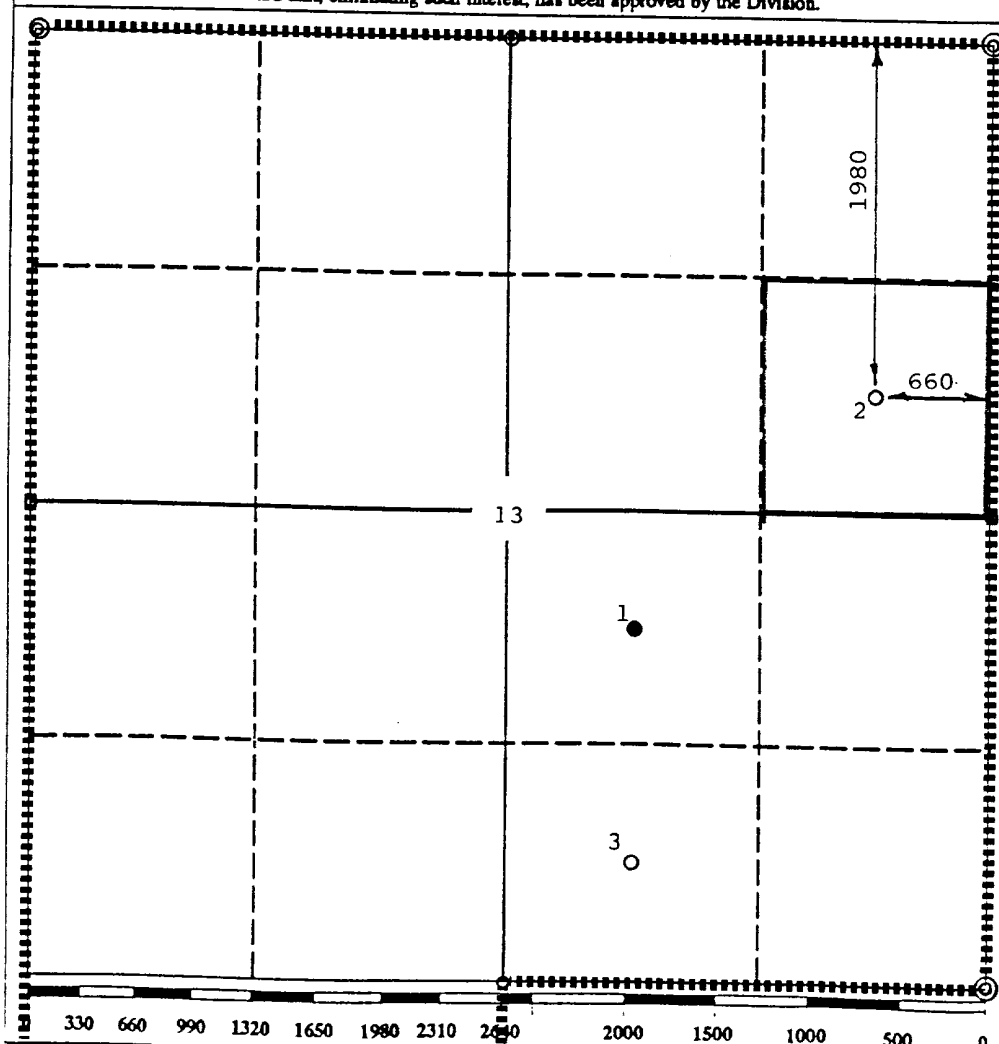
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
Royce D. Mariott
Printed Name
Royce D. Mariott
Position
Division Surveyor
Company
Texaco Producing Inc.
Date
July 5, 1989

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
June 30, 1989
Signature & Seal of
Professional Surveyor
J. Stan Raper
Certificate No.
7254



ANTICIPATED WATER, OIL, GAS, AND MINERAL
BEARING FORMATIONS

Well: Federal Neff "13" Well No. 2

Location: 1980' FNL & 660' FEL, Sec. 13, T-22-S, R-31-E

County: Eddy State: New Mexico

Elevation: 3612 GR Proposed TD: 8450'

Formation Tops

<u>Depth</u>	<u>Formation</u>	<u>Oil</u>	<u>Gas</u>	<u>Water</u>
4508'	Lamar			
4536'	Bell Canyon			
5393'	Cherry Canyon	X	X	
7076'	Brushy Canyon	X	X	

Mud Program

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>
0-840'	Spud Mud	8.7-9.0	30 - 38
840-4520'	Brine	10	29 - 32
4520-7000'	Cut Brine	8.8-9.2	29 - 32
7000-8450'	Cut Brine w/Drispac	8.8-9.3	29 - 32

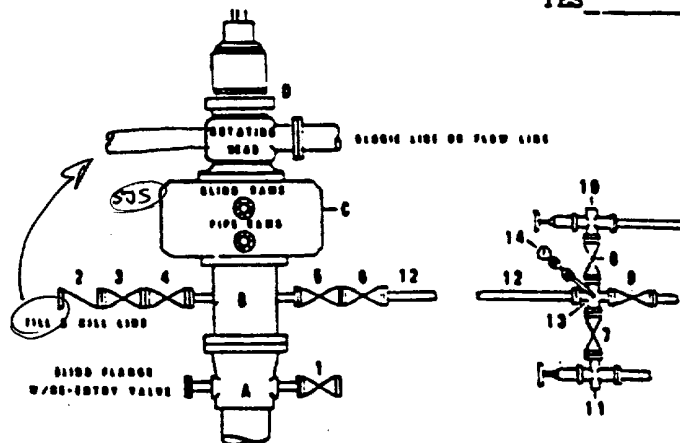
No intervals will be cored. One drill stem test may be conducted in the Brushy Canyon pay. Surveys to be run include GR-CAL-CNL-FDC (w/PE), GR-CAL-MSFL-DLL, and GR-CAL-BHC-Sonic.

No abnormal pressures, temperatures or hazardous gases are anticipated to be encountered in this well.

BOP will be installed after surface casing is set. BOP will be tested each time it is installed on a casing string and operated at least once each 24-hour period during drilling.

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

H₂S TRIM REQUIRED
 YES _____ NO _____



DRILLING CONTROL

MATERIAL LIST - CONDITION II - B
FOR AIR DRILLING

- 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 and extended Bore 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.
 MIDLAND DIVISION
 MIDLAND, TEXAS



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

EXHIBIT C

SURFACE USE AND OPERATIONS PLAN

FOR

TEXACO PRODUCING INC.
FEDERAL NEFF "13" NO. 2
1980' FNL & 660' FEL, SEC. 13, T-22-S, R-31-E
EDDY COUNTY, NEW MEXICO

LOCATED: 30 air miles East Southeast of Carlsbad, New Mexico

FEDERAL LEASE NUMBER: NM 25876

LEASE ISSUED: August 1, 1975

ACRES IN LEASE: 960 Acres

RECORD LEASEE: Texaco Producing Inc.

SURFACE OWNERSHIP: Federal

POOL: Brushy Canyon

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. Road Map (Topographic)
B. Drilling Rig Layout
C. Topographic Map

1. EXISTING ROADS:

A. Exhibit "A" is a portion of a County Road map showing the proposed well site and existing roads in the area. Point "A" is the junction of State Highway 180 and Lea County Road C-29. Said Point "A" is 31.3 miles east along State Highway 180 from Carlsbad, New Mexico. Exhibit "A" is color coded to show the local roads to be used for access to Texaco Producing Inc. Federal NEFF "13" lease in Section 13, T-22-S, R-31-E. Exhibit "C" is color coded to show existing Resource Roads and proposed Resource Roads. Point "B" shows the junction of said County Road C-29 with an existing Resource Road near the middle of Section 13 which will be used for 0.3 miles to Point "C" being a point in the East edge of Pogo Pet. NEFF "13" No.1 well pad. To reach the well from point "A" proceed South on said Lea County Road C-29 11.8 miles to Point "B". From point "B" turn East and proceed 0.35 miles to point "C". From point "C" a new Resource Road will be constructed

East 1320' then North 1225' to the Southeast corner of the calichi pad around the new well site.

2. PLANNED ACCESS ROAD:

A. Length and Width: The new road will be 14 feet wide and 2545 feet long, and is shown on Exhibit "C" by color coding.

B. Surfacing Material: Caliche. Watered, compacted, and graded.

C. Maximum Grade: Less than one percent.

D. Turnouts: None required.

E. Drainage Design: The new road will be crowned with drainage to both sides.

F. Culverts: None required.

G. Cuts and Fills: None necessary.

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

3. LOCATION OF EXISTING WELLS:

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

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Production from this well will be produced into a tank battery to be built on the same well pad.

B. No electricity will be used.

5. LOCATION AND TYPE OF WATER SUPPLY:

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

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche needed for the road and well pad will be taken from an existing pit in the SW/4 NW/4 of Section 1, T-23-S, R-31-E, Eddy County, New Mexico, and will be moved to the well site using existing local roads. Location of this caliche pit and road

is shown on Exhibit "A". This pit is on Federal Land and has been Archaeologically cleared.

7. METHODS OF HANDLING WATER 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 buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of the trash pit is shown on Exhibit "B".
- F. All trash and debris will be buried or removed from the well site within 30 days after completion of drilling and/or completion operations.

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, reserve pit, and trash pit, and the location of major rig components.
- B. Cut and fill will be minor, but clearing and levelling of the well site will be necessary.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion 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 as 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 rehabili-

tation 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: Texaco Producing Inc's. proposed location will be situated on a sandy undulating landform. Drainage is by sheetwash with drainage to the south. Elevation is approximately 3612 feet.

B. Soil: Top soil at the well site is a sandy loam and sandy clay deposits.

C. Flora and Fauna: The vegetative cover is moderate which includes weeds, range grasses and mesquite. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.

D. Ponds and Streams: Laguna Catuna is approximately 10 miles North of the location.

E. Residences and Other Structures: There are no occupied dwellings or other structures within 3/4 mile of the well site.

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

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

H. Surface Ownership: Federal.

12. OPERATOR'S REPRESENTATIVE:

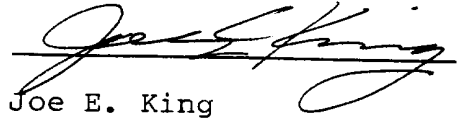
W. B. Cade
District Operations Manager
Texaco Producing Inc.
P. O. Box 782
Hobbs, New Mexico 88240
Office Phone: (505) 393-7191

13. 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 Producing Inc. and its contractors and sub-contractors 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.

7-20-89

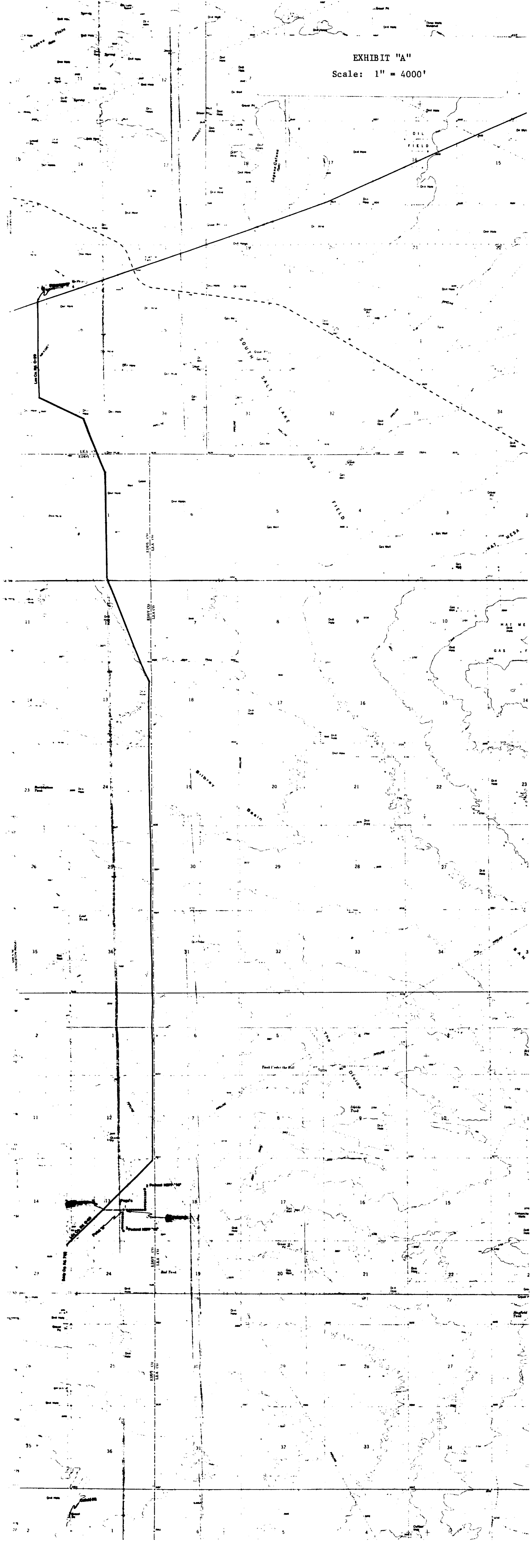
Date



Joe E. King
District Manager
Hobbs District

EXHIBIT "A"

Scale: 1" = 4000'



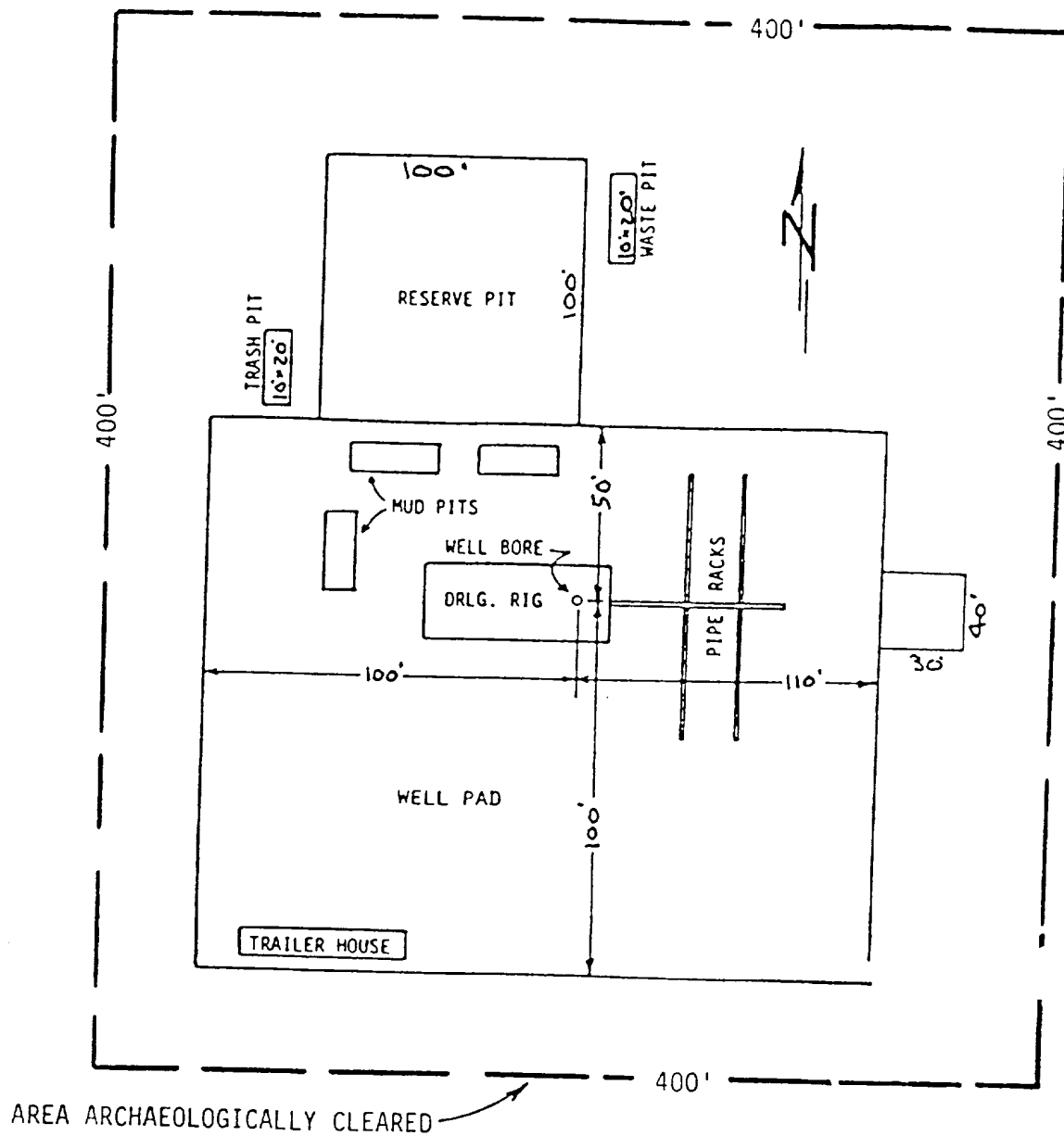


EXHIBIT "B"

TEXACO PRODUCING INC.

DRILLING RIG LAYOUT
SCALE: None

TEXACO PRODUCING INC.

JOB **Federal NEFF "13" NO.2**

SHEET NO _____ OF _____

CALCULATED BY **J. STAN PIPER** DATE **7/3/89**

CHECKED BY _____ DATE _____

SCALE **1" = 2000'**

PIPER SURVEYING COMPANY

P. O. Box 6432-ATS
MIDLAND, TEXAS 79711
(915) 561-9025

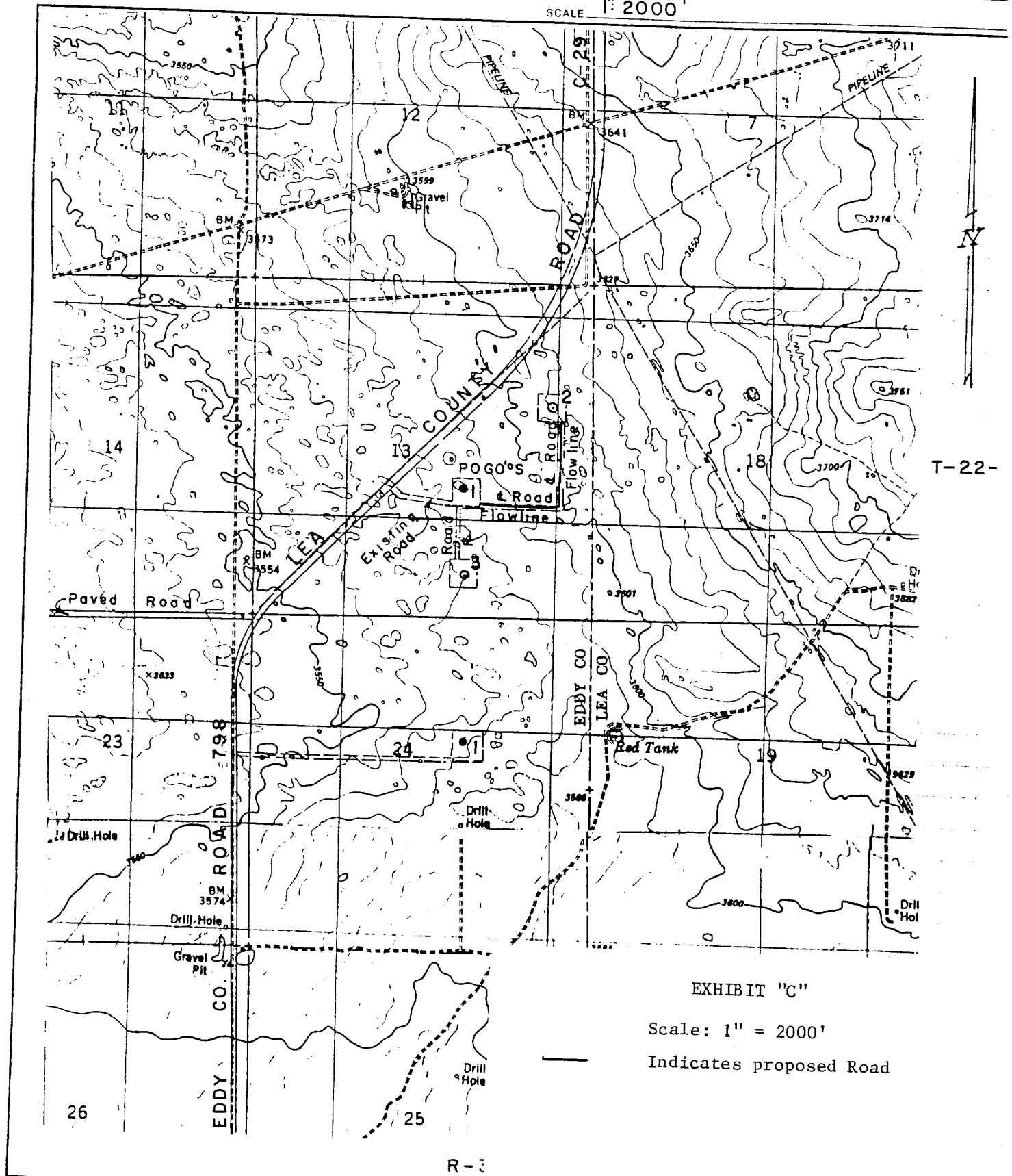


EXHIBIT "C"

Scale: 1" = 2000'

Indicates proposed Road