

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOV 1 1991

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

POGO PRODUCING COMPANY

3. ADDRESS OF OPERATOR

P. O. BOX 10340, MIDLAND, TEXAS 79702

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

At surface

1980' FNL AND 990' FWL OF SECTION 10

At proposed prod. zone

W. E

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

THREE MILES NORTH-NORTHEAST OF LOVING, NEW MEXICO

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

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

660'

16. NO. OF ACRES IN LEASE

360

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.

1270'

19. PROPOSED DEPTH

6450'

20. ROTARY OR CABLE TOOLS

ROTARY

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

3046.4' GR

22. APPROX. DATE WORK WILL START*

UPON APPROVAL

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	550'	SUFFICIENT TO CIRCULATE
7-7/8"	5-1/2"	15.5#	6450'	SUFFICIENT TO CIRCULATE

AFTER SETTING PRODUCTION CASING, PAY ZONE WILL BE PERFORATED
AND STIMULATED AS NECESSARY

SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA
BOP SKETCH
SURFACE USE AND OPERATIONS PLAN

Part ID-1
11-8-91
New Doc & APP

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

ATTACHED

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

Richard Wright

TITLE Drilling and Production Supt. DATE 10-4-91

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

10-31-91

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

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

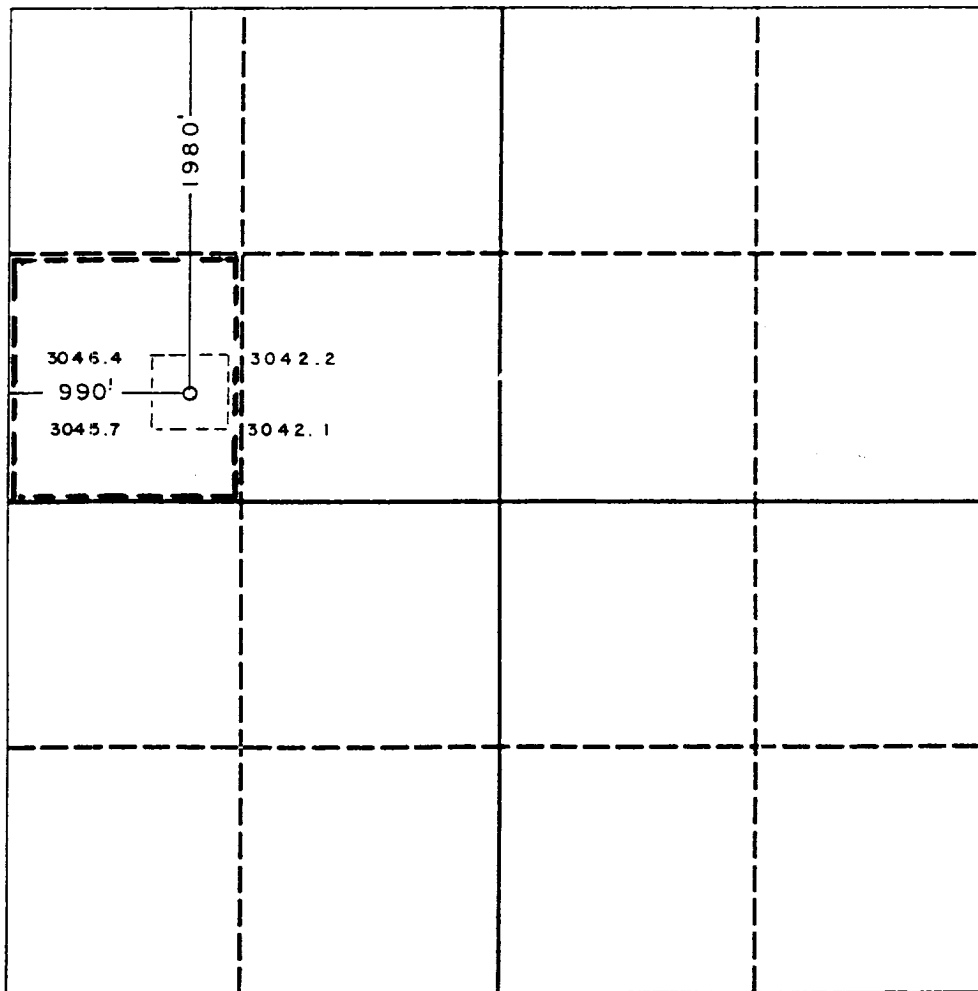
All Distances must be from the outer boundaries of the section

Operator Pogo Producing Company			Lease Federal 10		Well No. 3
Unit Letter E	Section 10	Township 23 South	Range 28 East	County Eddy	

Actual Footage Location of Well:
1980 feet from the North line and 990 feet from the West line

Ground level Elev. 3046.4	Producing Formation DELAWARE	Pool UNDES. EAST LOVING DELAWARE	Dedicated Acreage: 40 Acres
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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 <i>Richard L. Wright</i>
Printed Name Richard L. Wright
Position Dist. Drlg. & Prod. Supt.
Company POGO PRODUCING COMPANY
Date October 4, 1991

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 October 1, 1991
Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i>
Certificate No. 676 RONALD J. EIDSON, 3239

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY

FEDERAL 10 WELL NO.3

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

Top Salt	1080'
Base Salt	2400'
Delaware Lime	2530'
Bell Canyon	2580'
Cherry Canyon	3430'
Brushy canyon	4700'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Brushy Canyon	Oil
First Bone Springs Sand	Oil

4. PROPOSED CASING AND CEMENTING PROGRAM:

8-5/8" 24# K-55 STC casing is to be set at approximately 550 feet in 12-1/4" hole. Casing is to be cemented with 200 sacks of light cement tailed in with 200 sacks of Class "C" cement with 2% CaCl. Cement to circulate.

5-1/2" 15.5# J-55 STC casing to be set at approximately 6450 feet in 7-7/8" hole. Casing to be cemented in two stages with DV tool at about 3200 feet. First stage to be 350 sacks of 50-50 Poz A with 5# salt per sack tailed in with 200 sacks of Class "C" with 5# salt per sack. Second stage to be 600 sacks of Light cement with 5# salt per sack tailed in with 100 sacks of Class "C" with 2% CaCl. Cement to circulate.

5. PRESSURE CONTROL EQUIPMENT:

BOP stack will be 3000 psi working pressure.

A BOP sketch is attached.

6. CIRCULATING MEDIUM:

Surface to 550 feet: Fresh water gel and lime. Paper for seepage.
Weight: 8.4-8.6
Viscosity: 34-36
pH: 10-11

550 feet to total depth: Brine. Paper to control seepage. Lime to control pH.
Weight: 10.0-10.2
Viscosity: 28-32
Filtrate: 20-15 cc
pH: 9.5-10

7. AUXILIARY EQUIPMENT:

Geolograph from surface to total depth.

A mud logging trailer will be in use while drilling lower part of hole.

8. TESTING, LOGGING, AND CORING PROGRAMS:

No drill stem tests are planned.

Electric logs will include GR-CNL, Litho Density log, and Induction logs.

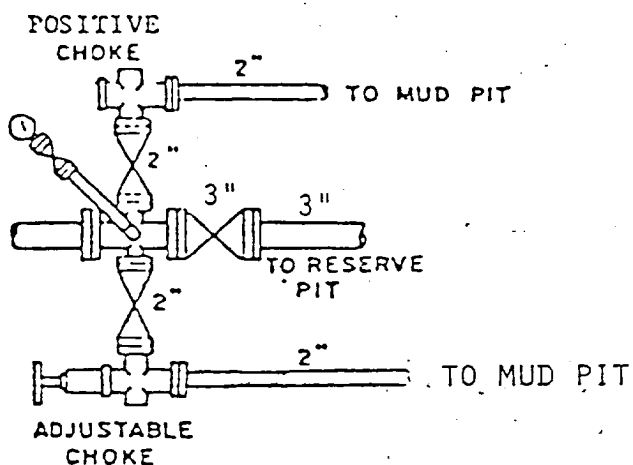
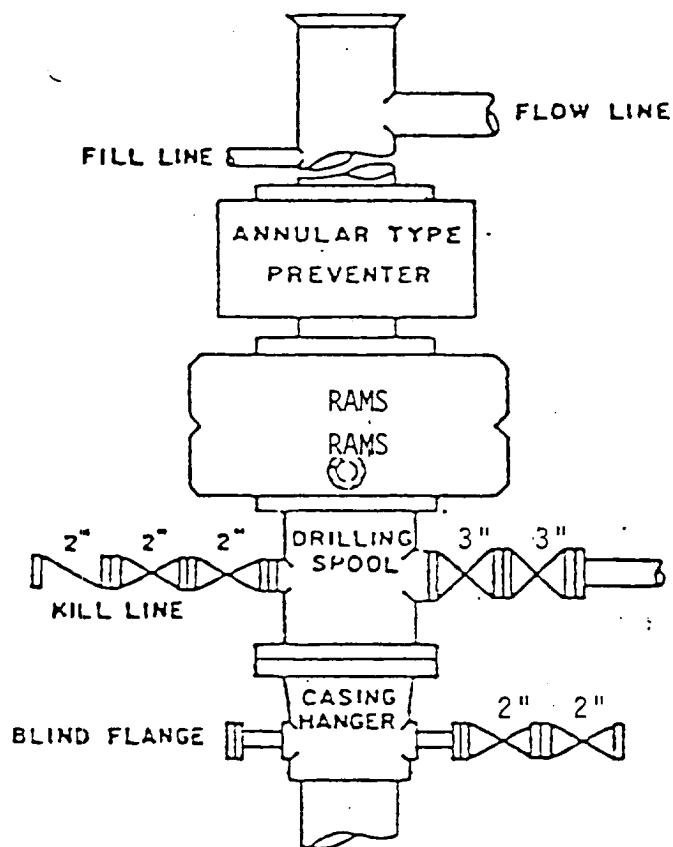
No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES, OR HYDROGEN SULFIDE GAS:

None anticipated.

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 30 days.



BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT

SURFACE USE AND OPERATIONS PLAN

FOR

POGO PRODUCING COMPANY
FEDERAL 10 WELL NO.3
1980'FNL & 990'FWL SEC.10, T.23 S., R.28 E.
EDDY COUNTY, NEW MEXICO

LOCATED: Three miles north-northeast of Loving, New Mexico.

FEDERAL LEASE NUMBER: NM-15433.

LEASE ISSUED: June 1, 1972. Lease is in producing status.

ACRES IN LEASE: 360.

RECORD LESSEE: Pogo Producing Company.

SURFACE OWNERSHIP: Federal.

GRAZING PERMITTEE: Curtis K. Skeen
1508 Riverside Drive
Carlsbad, New Mexico 88220

POOL: East Loving Delaware.

POOL RULES: Statewide. 40 acre spacing for oil.

EXHIBITS: A. Road map
B. Plat Showing Existing Wells and Existing Roads
C. Drilling Rig Layout
D. Topo Plat

1. EXISTING ROADS:

A. Exhibit "A" is a portion of a road map showing the location of the proposed well as staked. Point "A" on the plat is on US-285 at Mile Marker 23.4, approximately 10 miles southeast of Carlsbad, New Mexico, where State highway 31 goes east. To go to the proposed well site from this point, go east on State 31 2 miles to Mile Marker 2 where a caliche road goes north. Exit State 31 to the north through the cattle guard (also see Exhibits "B" and "D") and go 0.4 mile to arrive at Pogo's NEL Com No. 1 on the west side of the road at about 120 feet. Continue north 0.1 mile to a fence and then an additional 350 feet where there is a centerline of road stake on the east side of the road. The proposed well site is about 1600 feet east and a little north of this point.

B. Exhibit "B" shows existing pertinent roads in the vicinity of the proposed well site. Existing roads are color coded.

2. PLANNED ACCESS ROAD:

A. Length and Width: The access route, north off State highway 31, is shown on Exhibits "A", "B", and "D". The new road will be 12 feet wide and about 1500 feet long, and is labeled and color coded red on Exhibit "B". The centerline of the proposed new road is staked and flagged.

B. Surfacing Material: If material on-site is not suitable, caliche will be used.

C. Maximum Grade: Approximately one percent.

D. Turnouts: Probably two.

E. Drainage Design: The new road will be crowned with drainage to the side.

F. Culverts: None needed.

G. Cuts and Fills: None required.

H. Gates and Cattle Guards: A cattle guard will be installed in the fence where it crosses the access route as indicated on Exhibit "B".

3. LOCATION OF EXISTING WELLS:

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

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Production from this well will be delivered to the existing lease tank battery located at well No. 1. The flow line will be 3" SDR-7 polyethylene pipe laid on the ground and will extend from the well to the tank battery as shown on Exhibit "B". Anticipated flow line pressure is 60 psi.

B. The proposed electric line will follow the same route as the flow line and will extend from a pole near well No. 1 to the proposed well as shown on Exhibit "B". The route is staked and flagged and will be archaeologically cleared.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is not planned 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 construction work will be taken from an existing pit on privately owned land in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 10, T.23 S., R.28 E., Eddy County, New Mexico. Caliche will be trucked to the location over existing and proposed roads.

7. METHODS OF HANDLING WASTE MATERIAL:

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 in the drilling pits or will be stored in tanks for disposal in an approved disposal system.

D. Oil produced during tests will be stored in test tanks until sold.

E. All trash, junk, and other waste material will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary land fill.

8. ANCILLARY FACILITIES:

A. None needed.

9. WELL SITE LAYOUT:

A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pit, and waste pit, and the location of major drilling rig components.

B. Clearing and levelling of the well site will be necessary.

C. The pad and pit area is staked and flagged.

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 from the well site. 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.

C. After abandonment, all equipment, trash, and junk will be removed and the well site will be cleaned. Any special rehabilitation requirements of the surface management agency will be complied with and accomplished as rapidly as possible.

11. OTHER INFORMATION:

A. Topography: The general area of the proposed well site is a gently undulating landscape. In the immediate area of the well site land slope is to the south and east.

B. Soil: Top soil in the immediate area of the well site is a gravelly loam.

C. Flora and Fauna: The vegetative cover is moderate and includes mesquite, javelina bush, yucca, weeds, and range grasses. 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: The Pecos River at its nearest point is slightly over one-half mile to the north. However, land slope at the well site is to the south and east toward the Pecos River at a distance of about one and one-quarter miles at its nearest point. There are no other lakes, ponds, or streams on the area.

E. Residences and Other Structures: There are no occupied dwellings closer than one-half mile to the proposed well site.

F. Archaeological, Historical, and Cultural Sites: An archaeological reconnaissance is to be accomplished and a report furnished.

G. Land Use: Grazing and wildlife habitat.

H. Surface Ownership: Federal.

12. OPERATOR's REPRESENTATIVE:

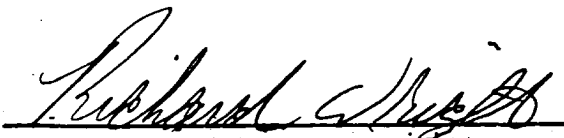
Richard L. Wright
Drilling and Production Superintendent
Pogo Producing Company
P. O. Box 10340
Midland, Texas 79702
Office Phone: 915-682-6822

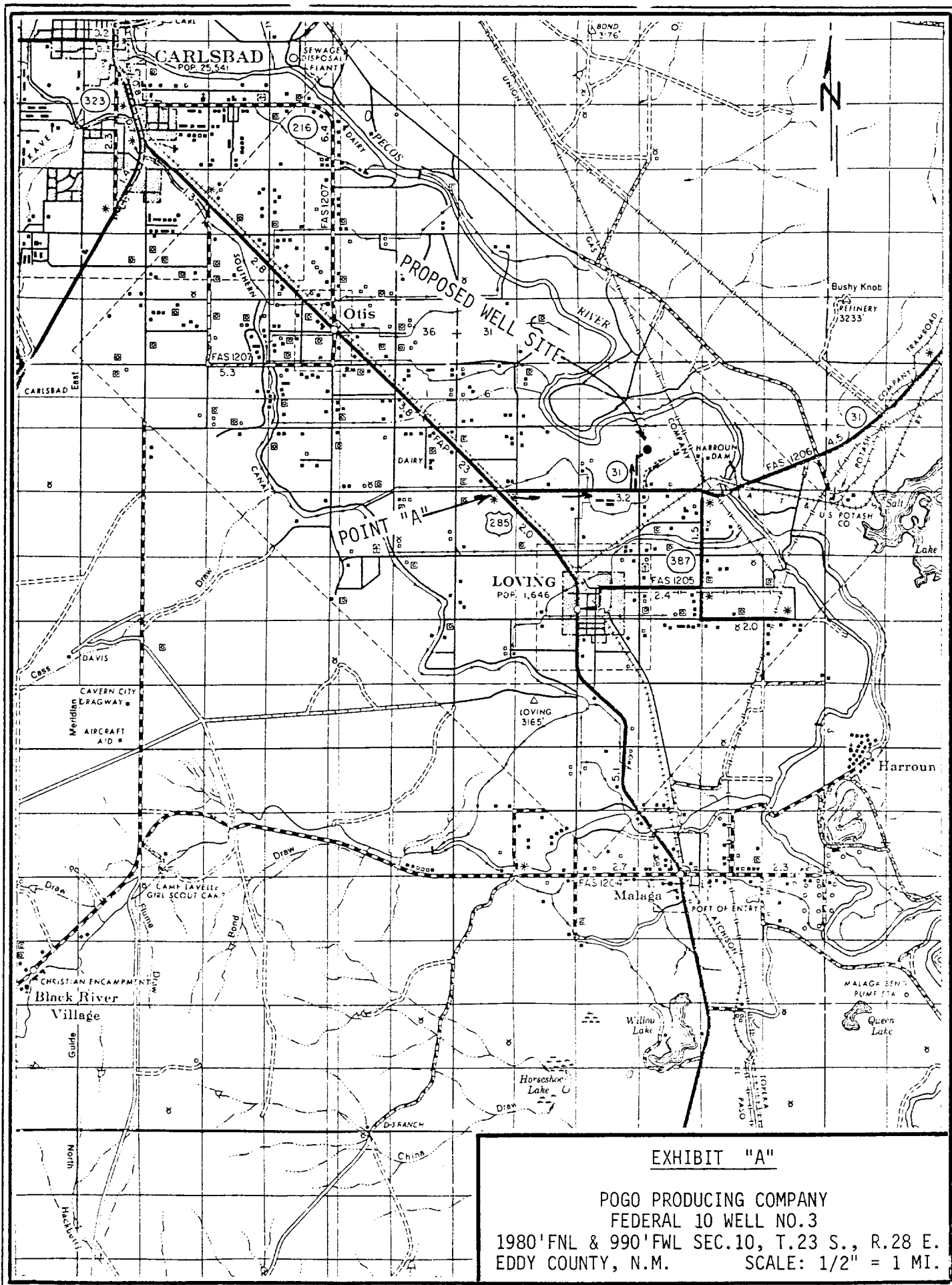
13. CERTIFICATION:

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 Pogo Producing Company 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.

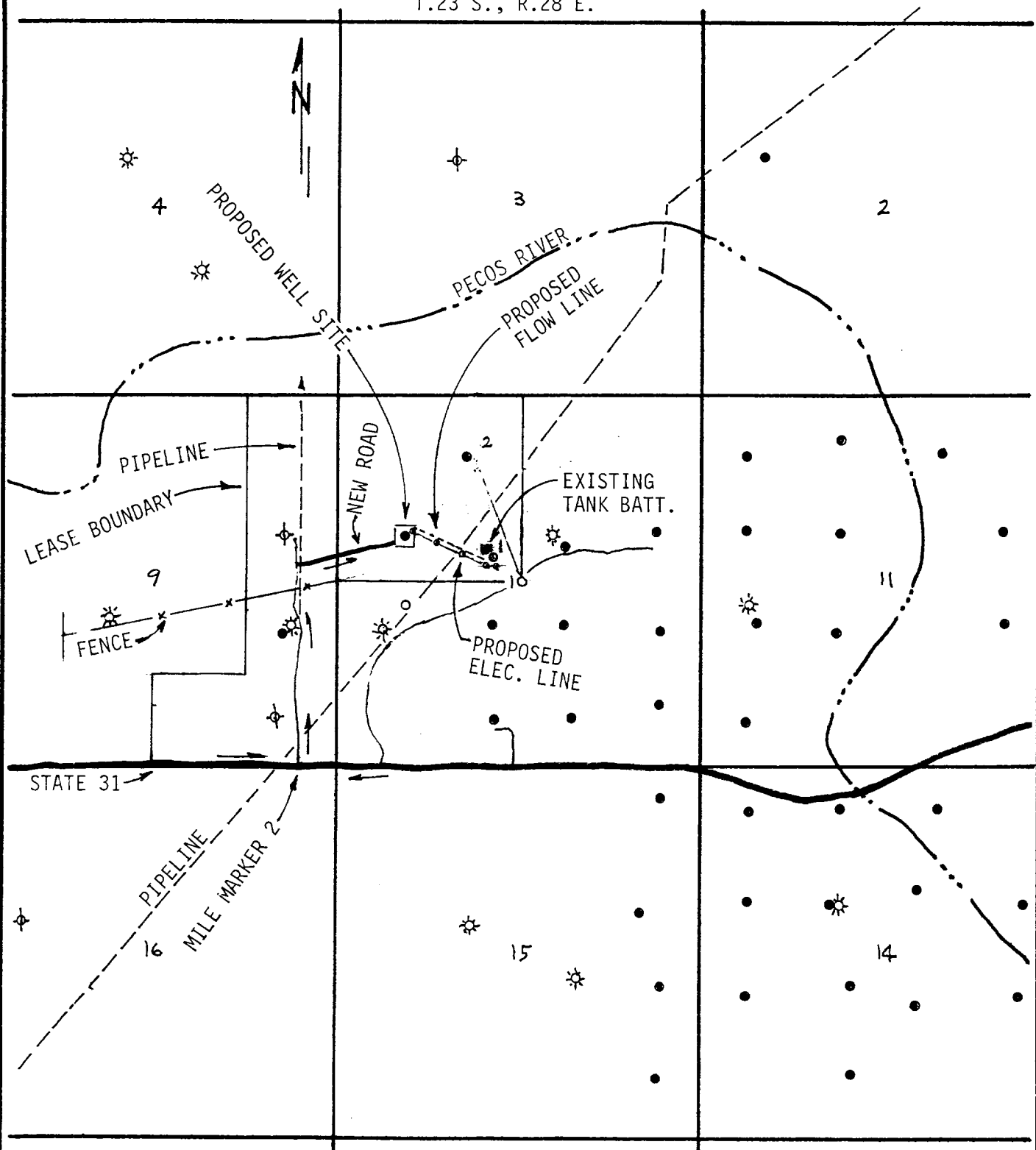
October 3, 1991

Date:


Richard L. Wright
Dist. Drilling and Production Supt.



T.23 S., R.28 E.



LEGEND:

- Oil Well
- ☼ Gas Well
- ⊕ Plugged Well
- Proposed Well
- State Highway 31
- Existing Caliche Road
- Proposed New Road

EXHIBIT "B"

POGO PRODUCING COMPANY
 FEDERAL 10 WELL NO.3
 1980' FNL & 990' FWL SEC.10, T.23 S., R.28 E.
 EDDY COUNTY, N.M. SCALE: 1" = 2000'

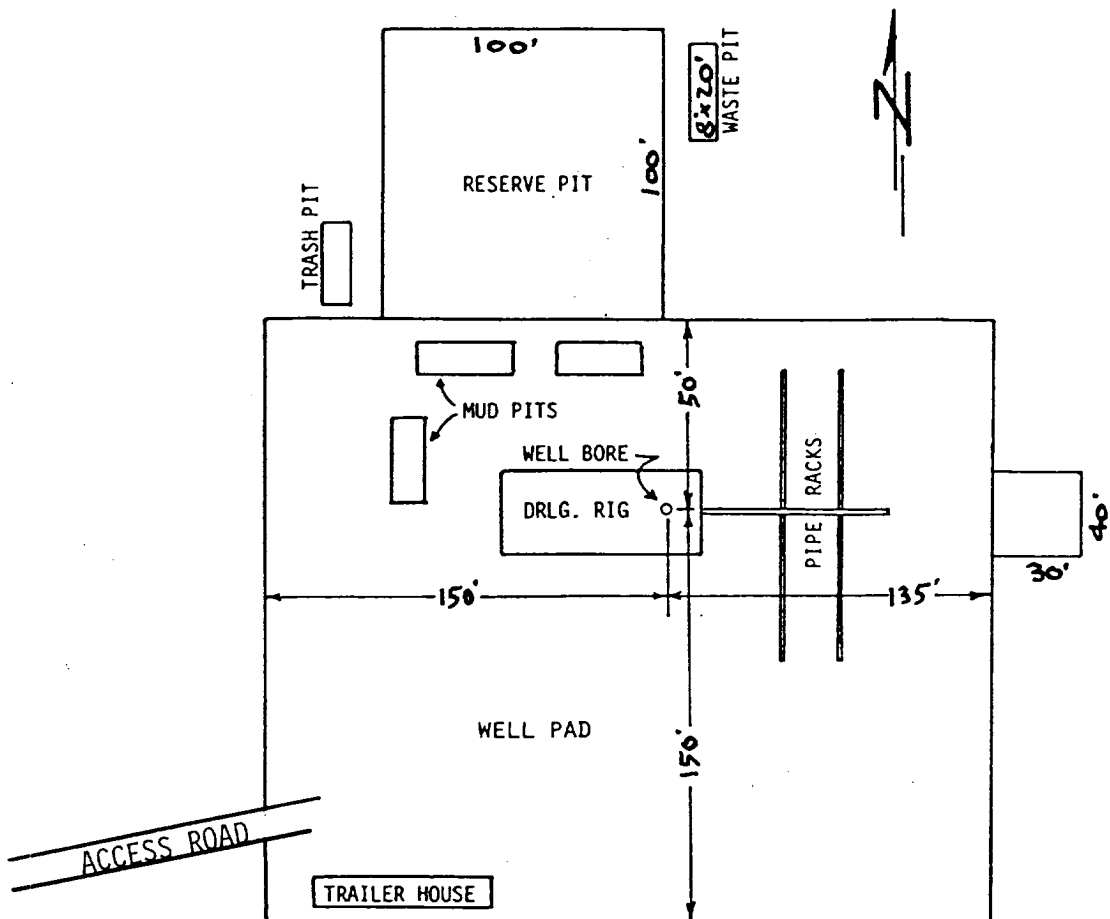


EXHIBIT "C"

POGO PRODUCING COMPANY
 FEDERAL 10 WELL NO.3
 DRILLING RIG LAYOUT
 SCALE: None

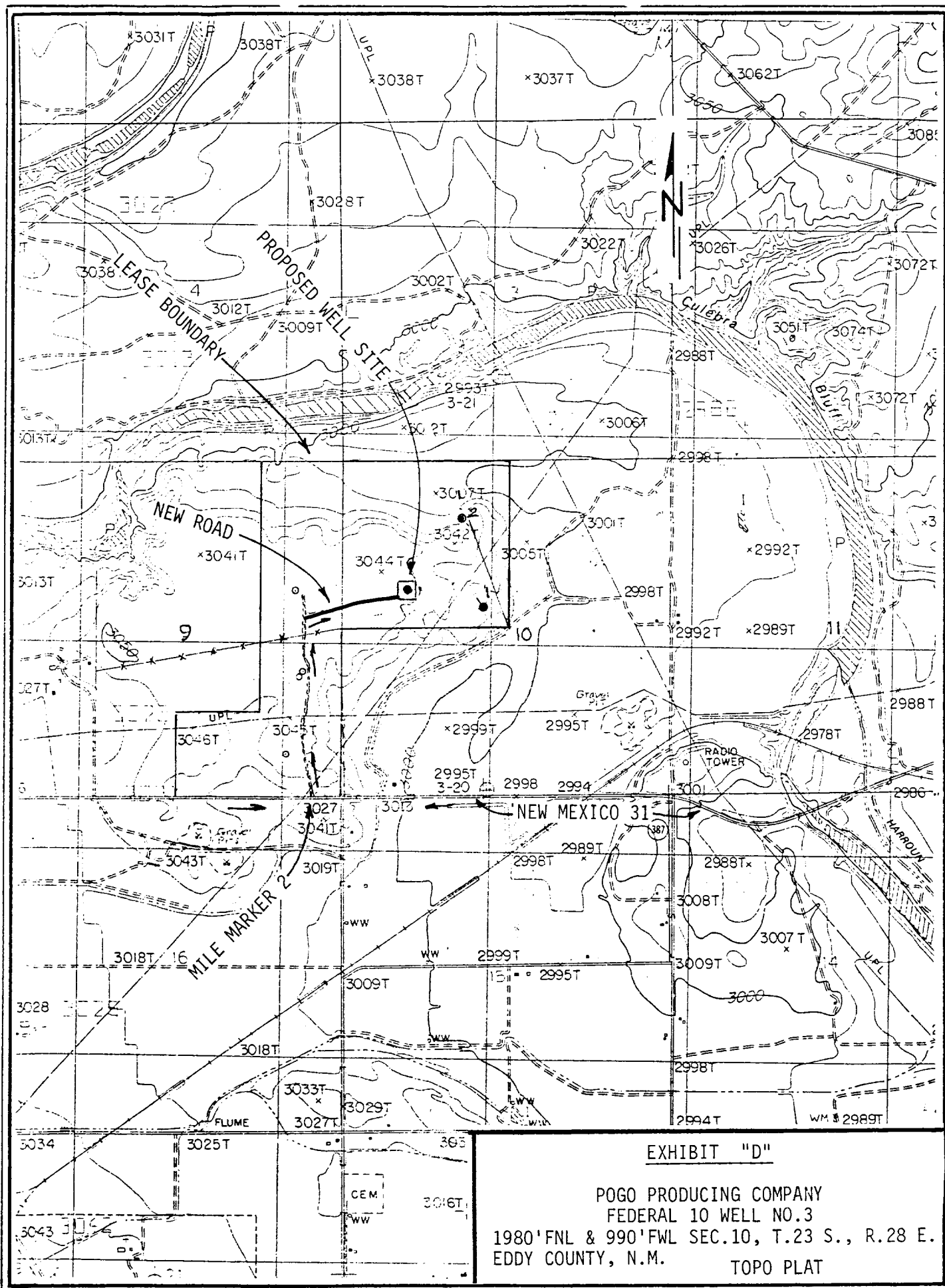


EXHIBIT "D"

POGO PRODUCING COMPANY
FEDERAL 10 WELL NO.3
1980' FNL & 990' FWL SEC.10, T.23 S., R.28 E.
EDDY COUNTY, N.M.
TOPO PLAT