

Drawer DD

Artesia, NM 88206

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

NM- 15433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

NEL

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

East Loving Delaware

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Sec. 9, T-23S, R-28E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

☒ Re-Entry

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☐

OTHER SWD ☐

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 & 720' FEL of Section 9, T-23S, R-28E

At proposed prod. zone Same

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

2.5 miles north of Loving, New Mexico

10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

550'

16. NO. OF ACRES IN LEASE

360

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

None

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

990'

19. PROPOSED DEPTH

3769'

20. ROTARY OR CABLE TOOLS

Rotary

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

3046' GR.

22. APPROX. DATE WORK WILL START\*

Upon approval of application

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#	445	285 sx Class "C" (Circulated)
* 7 7/8"	5 1/2"	14#	3769'	900 sx (Circulated)

\* Casing strings already set and cemented.

After drilling out plugs to 3580', well will be perforated from 2652' - 3576'. 2 7/8" PVC lined tubing will be run in hole with Guiberson Uni-VI packer set at 2560'.

Starting date will be as soon as application is approved.

OTD: 4135

PYA 7-29-83

Approved Subject to  
General Regulations and  
Special Instructions  
Bureau

Post ID-1  
7-16-93  
Re-entry

RECEIVED  
MAY 21 11 31 AM '93  
AND  
CITY OF ALBUQUERQUE

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

James M.C. Ritchie, Jr.  
(This space for Federal or State office use)

TITLE

Agent

DATE May 25, 1993

PERMIT NO.

APPROVAL DATE

AREA MANAGER

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

[RE-ENTRY]

\*See Instructions On Reverse Side

EXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

RECEIVED

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

JAN 25 1983

All distances must be from the outer boundaries of the Section

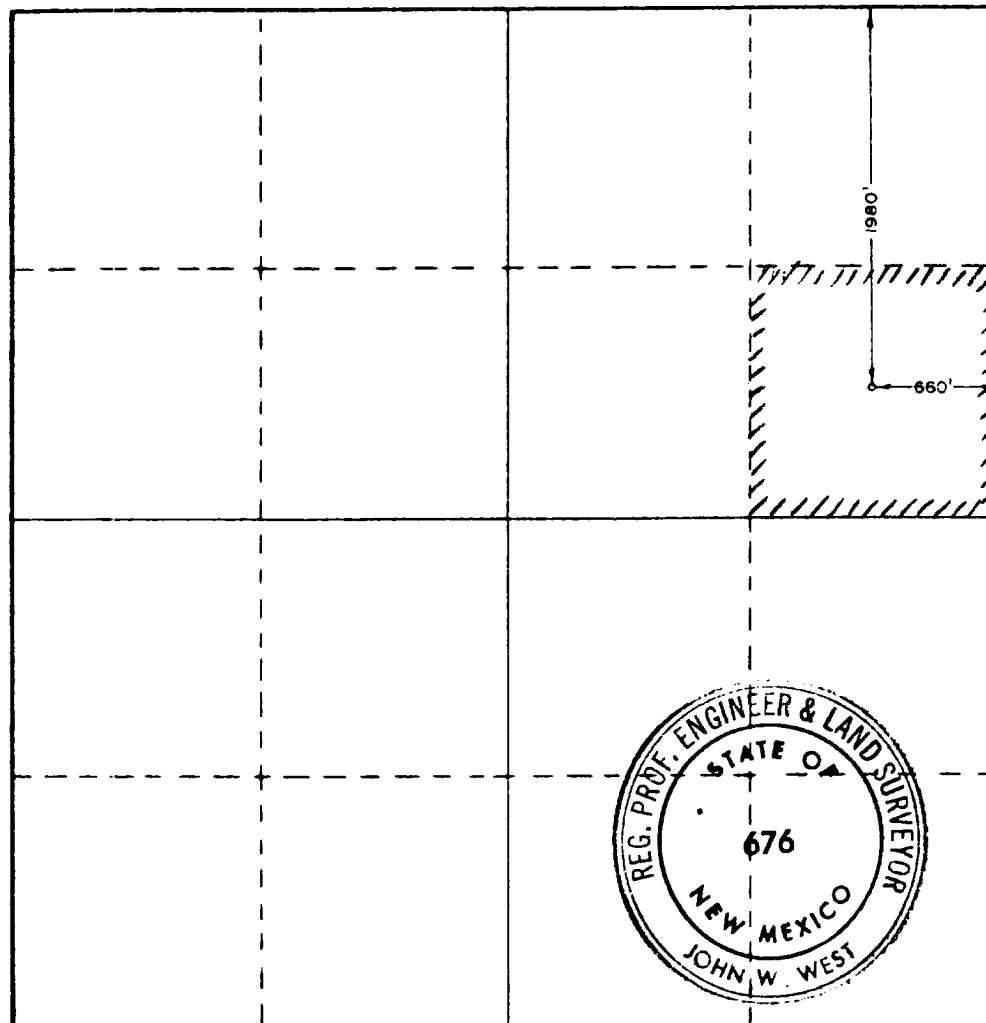
Operator <b>POGO PRODUCING CO.</b>		Lease <b>NEL MIDLAND</b>		Well No. <b>4</b>
Tract Letter <b>H</b>	Section <b>9</b>	Township <b>23 SOUTH</b>	Range <b>28 EAST</b>	County <b>EDDY</b>
Actual Portage Location of Well: <b>1980</b> feet from the <b>NORTH</b> line and <b>660</b> feet from the <b>EAST</b> line				
Ground Level Elev. <b>3046.0</b>	Producing Formation <b>Cherry Canyon</b>	Pool <b>Loving Cherry Canyon</b>	Dedicated Acreage: <b>40</b> 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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

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

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



CERTIFICATION

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

*B.J. Williams*  
Name  
**B.J. Williams**  
Position  
**Division Operations Manager**  
Company  
**Pogo Producing Company**  
Date  
**February 3, 1983**

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  
**1/22/83**  
Registered Professional Engineer and/or Land Surveyor  
*John W. West*  
Certificate No  
**JOHN W. WEST NO. 676**

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

## SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY  
NEL LEASE WELL NO. 4

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	1025'
Delaware Lime	2570'
Cherry Canyon	3550'
Brushy Canyon	4700'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONE:

None

4. PROPOSED CASING AND CEMENTING PROGRAM:

<u>CASING SIZE</u>	<u>SETTING DEPTH</u>		<u>WEIGHT</u>	<u>GRADE</u>	<u>JOINT</u>
	<u>FROM</u>	<u>TO</u>			
* 8 5/8"	0	445'	24#	J-55	STC
* 5 1/2"	0	3769'	14#	K-55	STC

\* Casing strings already set and cemented.

MINIMUM DESIGN FACTORS: Collapse 1.125 Burst 1.1 Tension 1.7

8 5/8" casing cemented with 285 sx Class "C", 2% CaCl. Cement circulated.

5 1/2" casing cemented with 650 sacks of Light cement followed by 250 sacks of Class "C" Neat. Cement circulated.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling in the 5 1/2" casing, will be either a 3000 psi working pressure double ram type preventer or a 3000 psi working pressure annular type preventer.

A BOP sketch is attached.

6. CIRCULATING MEDIUM:

Surface to 3585 feet: Brine water .

7. AUXILIARY EQUIPMENT: None needed.

8. TESTING, LOGGING, AND CORING PROGRAMS:

It is expected a Gamma-Ray Collar Log will be run prior to perforating.

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

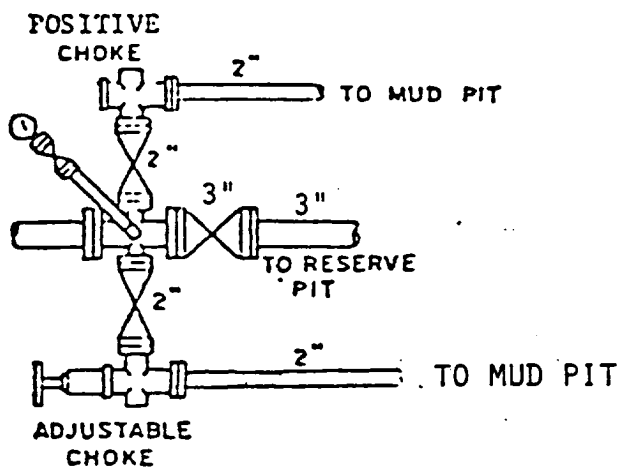
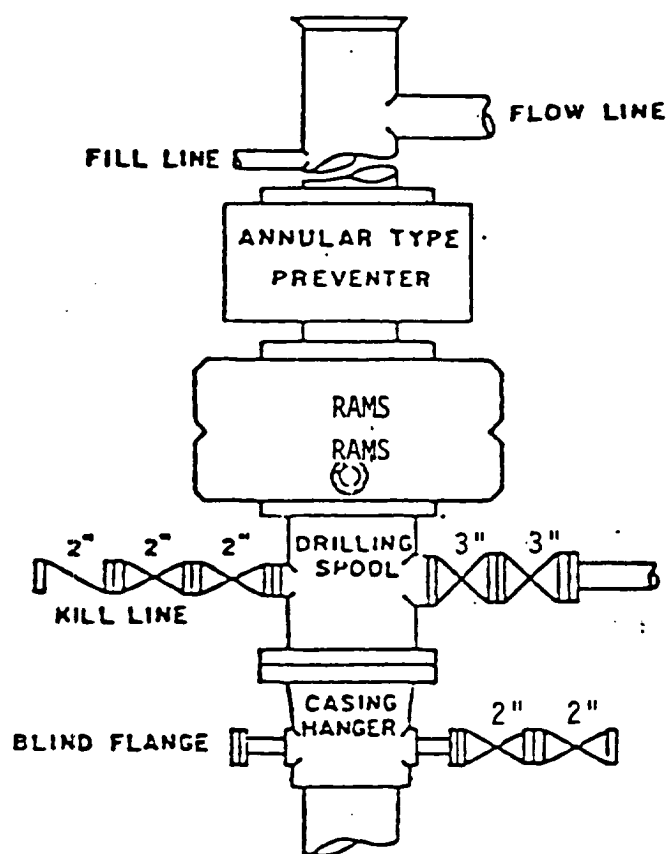
None anticipated.

Expected bottom hole pressure is approximately 1500 psi.

Expected bottom hole temperature is approximately 98 degrees Fahr.

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 5-7 days.



BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT

SURFACE USE AND OPERATIONS PLAN  
FOR  
POGO PRODUCING COMPANY  
NEL WELL NO. 4  
1980' FNL & 720' FEL OF SEC. 9, T-23S, R-28E  
EDDY COUNTY, NEW MEXICO

LOCATED: 2 1/2 north of Loving, New Mexico.

FEDERAL LEASE NUMBER: NM-15433

LEASE DATE: 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: Undesignated East Loving Delaware.

POOL RULES: Statewide. 40 acres for oil. No acreage assigned for disposal well.

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 reentry. 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 reentry 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 cattleguard (also see Exhibits "B" & "D") and go approximately 3400' north to the proposed reentry.

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

2. PLANNED ACCESS ROADS:

A. Length and Width: The new road will be 12 feet wide and approximately 600' long, and labeled and color coded red on Exhibit "B". The centerline of the road will be staked and flagged.

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

C. Maximum Grade: Less than one percent.

D. Turnouts: Not needed.

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

F. Culverts: None needed.

G. Cuts and Fills: None necessary.

H. Gates and Cattle Guards: Not needed. No fences involved.

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. Two 500 bbl. tanks will be set on proposed well pad to be used as storage tanks for disposal water. A triplex pump will also be set on this same pad. A 3" polyethylene SDR-7 will be laid on the ground alongside the road and extend from each producing well to the proposed well site.

B. The proposed electric line will extend from the proposed reentry east 200' to a point 50 feet east of the proposed new road and then south approximately 1000' to tie into the existing power lines as indicated on Exhibit "B". Primary voltage will be 12,000 volts.

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 a temporary pipeline laid on the ground alongside existing and proposed roads.

6. SOURCE OF CONSTRUCTION MATERIAL:

A. Caliche needed for construction work will be taken, if present, from a pit opened on-site within the 400' X 450' work area. Otherwise, caliche will be taken from an existing pit located on privately owned land in the NW1/4SW1/4 of Section 10, T-23S, R-28E, Eddy County, New Mexico, and will be trucked to the well site 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 pits are dry.
- C. 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 landfill.

8. ANCILLARY FACILITIES:

- A. None necessary.

9. WELL SITE LAYOUT:

- A. Exhibit "C" shows relative location and dimensions of the well pad, mud pits, reserve pit and the location of major drilling rig components.
- B. Clearing and levelling of the well site will be required.
- 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. 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 rehabilitation 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 is undulating and dunny. In the immediate area of the well site, land slope is to the southeast.

B. Soil: Top soil at 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 about 0.5 miles to the north. However, land slope at the proposed reentry is the the south and east toward the Pecos river at a distance of about 1.5 miles. There are no other streams or lakes in this area.

E. Residences and Other Structures: The nearest occupied dwelling is about 1/2 mile south southeast of the proposed reentry.

F. Archaeological, Historical, and Cultural Sites: None observed. However, an archeological reconnaissance is to be accomplished and a report furnished.

G. Land Use: Grazing and wildlife habitat.

H. Surface Ownership: Federal


12. OPERATOR'S REPRESENTATIVE:

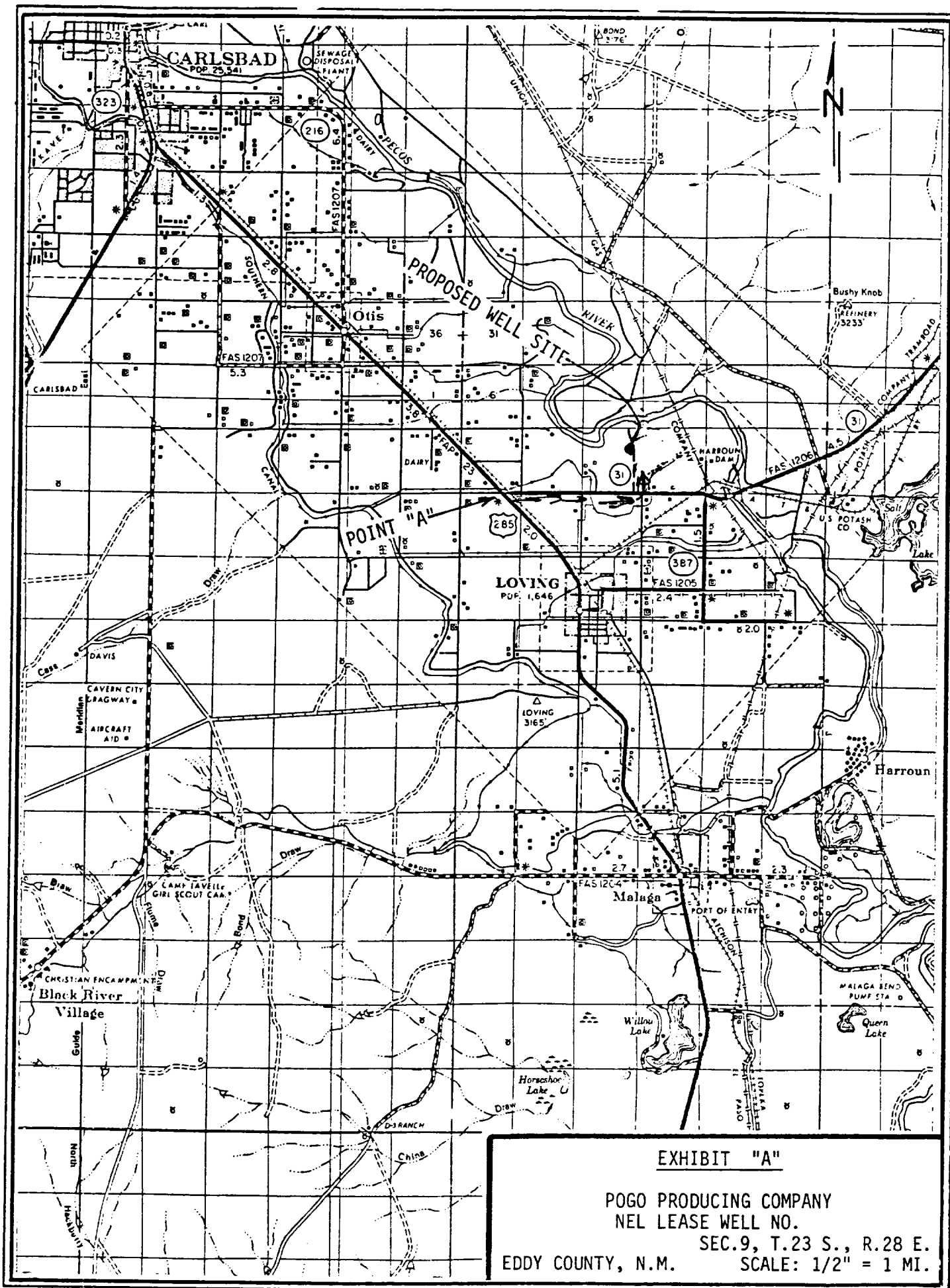
Richard L. Wright  
Division Operations Supervisor  
Pogo Producing Company  
P.O. Box 10340  
Midland, Texas 79702  
(915) 682-6822

13. CERTIFICATION:

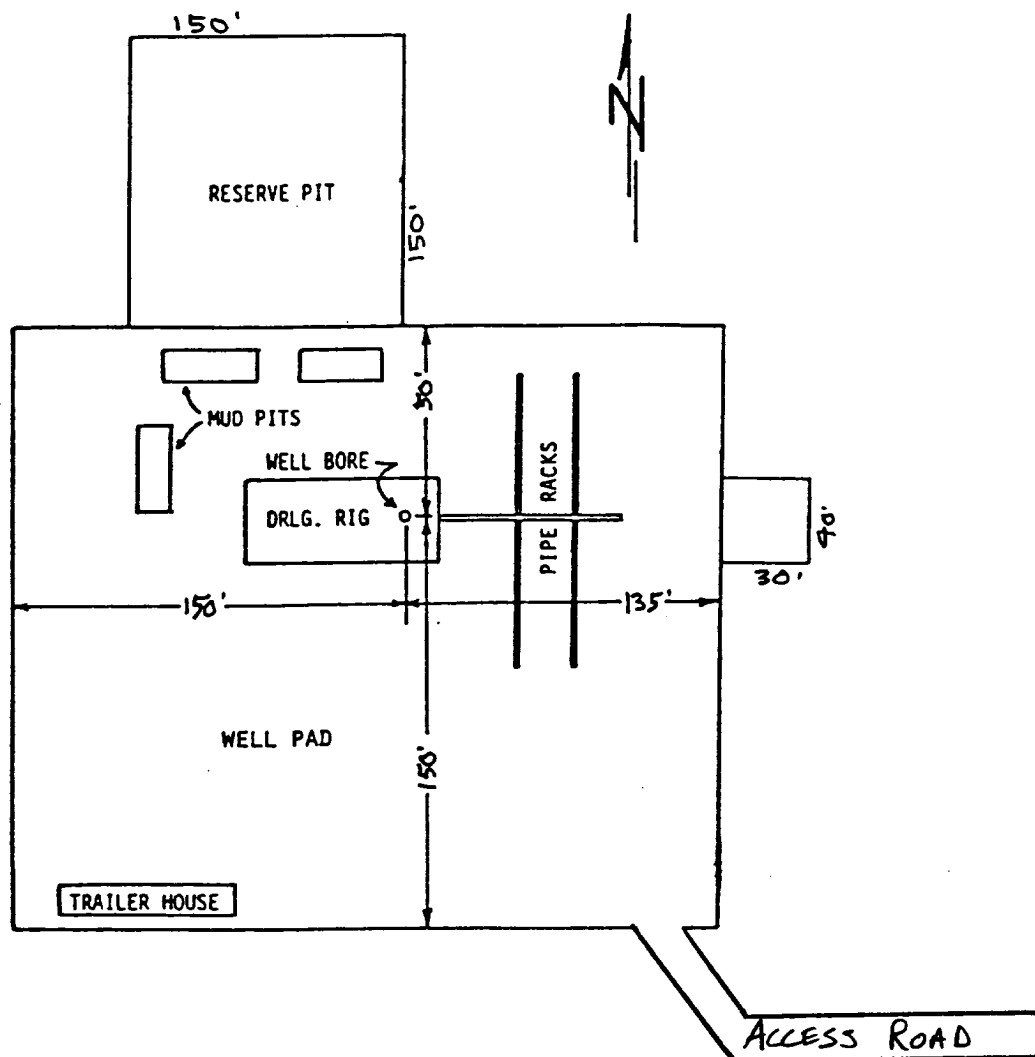
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated 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 19 U.S.C. 1001 for the filing of a false statement.

\_\_\_\_\_  
Date:

  
Richard L. Wright  
Division Operations Supervisor







### EXHIBIT "C"

Pogo Producing Company  
 NEL Lease Well No. 4  
 1980' FNL & 720' FEL of Sec. 9, T-23S, R-28E  
 Eddy County, New Mexico  
**DRILLING RIG LAYOUT**  
 SCALE: None

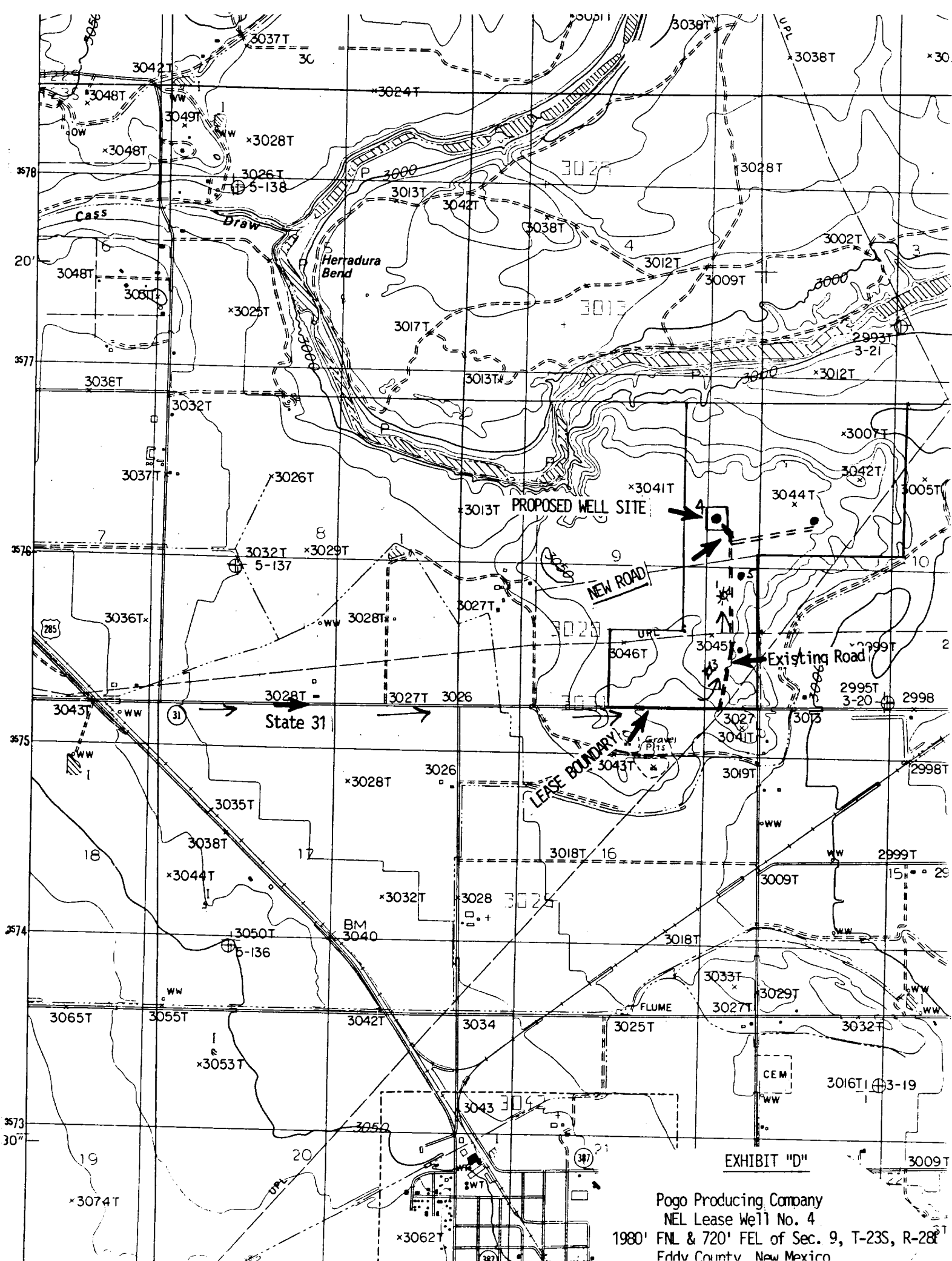


EXHIBIT "D"

Pogo Producing Company  
NEL Lease Well No. 4  
1980' FNL & 720' FEL of Sec. 9, T-23S, R-28E  
Eddy County, New Mexico