

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

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

1650' FSL AND 1650' FWL OF SECTION 24

At proposed prod. zone

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

21 MILES EAST OF LOVING, NEW MEXICO

10. DISTANCE FROM PROPOSED*

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

990'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

1320'

16. NO. OF ACRES IN LEASE

320

19. PROPOSED DEPTH

8500'

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

ROTARY

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

3514.0' GR

22. APPROX. DATE WORK WILL START*

UPON APPROVAL

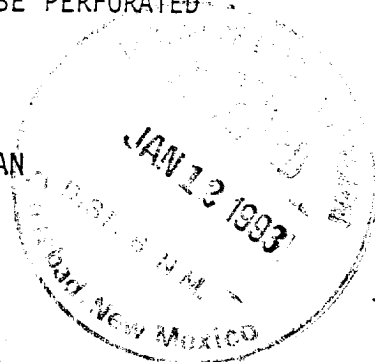
23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5#	800'	SUFFICIENT TO CIRCULATE
11"	8-5/8"	24# & 32#	4300'	SUFFICIENT TO CIRCULATE
7-7/8"	5-1/2"	15.5# & 17#	8500'	SUFFICIENT TO CIRCULATE (tieback)

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



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 L. Wright

TITLE

Division Operations Supr.

DATE

January 8, 1993

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

3-31-93

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED, and to NMOC's R-111-P

*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.

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., Artes, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator POGO PRODUCING CO.			Lease AMAX 24 FEDERAL		Well No. 9
Unit Letter K	Section 24	Township 23 SOUTH	Range 31 EAST <small>NMPM</small>		County EDDY
Actual Footage Location of Well:					
1650 feet from the SOUTH line and		1650 feet from the WEST line			
Ground Level Elev. 3514.0'	Producing Formation DELAWARE (BRUSHY CANYON)	Pool UNDES. SAND DUNES BRUSHY CANYON		Dedicated Acreage: 40 Acres	
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>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).</p> <p>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.? <input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____</p> <p>If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. _____)</p> <p>No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>					
			<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature: <i>Richard L. Wright</i></p> <p>Printed Name: Richard L. Wright</p> <p>Position: Division Operations Supr.</p> <p>Company: POGO PRODUCING COMPANY</p> <p>Date: January 5, 1993</p>		
			<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date Surveyed: OCTOBER 1, 1992</p> <p>Signature & Seal of Professional Surveyor:</p> <div style="text-align: center;"> </div> <p>Certificate No. JOHN W. WEST, 676 RONALD W. EDSON, 323 GARY L. JONES, 7977</p> <p style="text-align: center;">92-41-1455</p>		

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY
AMAX 24 FEDERAL WELL NO. 9

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	800'
Delaware Lime	4440'
Bell Canyon	4480'
Cherry Canyon	5300'
Brushy Canyon	6650'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Brushy Canyon	Oil
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4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH		WEIGHT	GRADE	JOINT
	FROM	TO			
13-3/8"	0	800'	54.5#	J-55	STC
8-5/8"	0	1000'	32#	J-55	STC
"	1000'	2200'	24#	J-55	STC
"	2200'	4300'	32#	J-55	STC
5-1/2"	0	1000'	17#	J-55	LTC
"	1000'	6000'	15.5#	J-55	LTC
"	6000'	8500'	17#	N-80	LTC

MINIMUM

DESIGN FACTORS: COLLAPSE 1.125 BURST 1.1 TENSION 1.7

13-3/8" casing to be cemented with 500 sacks of Light cement tailed in with 200 sacks of Class "C" with 2% CaCl. Cement to circulate.

8-5/8" casing to be cemented with 1200 sacks of Light cement with 10% salt tailed in with 200 sacks of Class "C" with 1% CaCl. Cement to circulate.

5-1/2" casing is to be cemented with approximately 500 sacks of Light cement tailed in with 700 sacks of Class "H" with the top of the Class "H" calculated to be at or above the shoe of the intermediate casing. If need for a stage tool is indicated, it will be positioned to best suit hole conditions. Cement to circulate.

Cement may have lost circulation or other additives depending on hole conditions at the time casing is run.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling the 11" hole, will be either a 3000 psi working pressure double ram type preventer or a 3000 psi working pressure annular type preventer.

Blow out prevention equipment, while drilling below the 8-5/8" casing seat, will be a 3000 psi working pressure BOP stack. A BOP sketch is attached.

6. CIRCULATING MEDIUM:

Surface to 800 feet: Fresh water spud mud. Viscosity 30 to 36 as required for hole cleaning.

800 feet to 4300 feet: Brine conditioned as necessary for control of viscosity. Weight 9.8 to 10. pH 9 to 10. Viscosity 32 to 36.

4300 feet to T.D.: Water base drilling fluid conditioned as necessary for control of weight, viscosity, pH and water-loss. Weight 9 to 10. Viscosity 38-45. pH 9 to 10. Filtrate while drilling pay zone 6 to 15.

7. AUXILIARY EQUIPMENT:

A mud logging trailer will be in use while drilling below the intermediate casing.

8. TESTING, LOGGING, AND CORING PROGRAMS:

Drill stem tests will be made when well data indicate a test is warranted.

It is planned that electric logs will include GR-CNL-Density logs and GR-DLL logs.

No coring is planned.

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

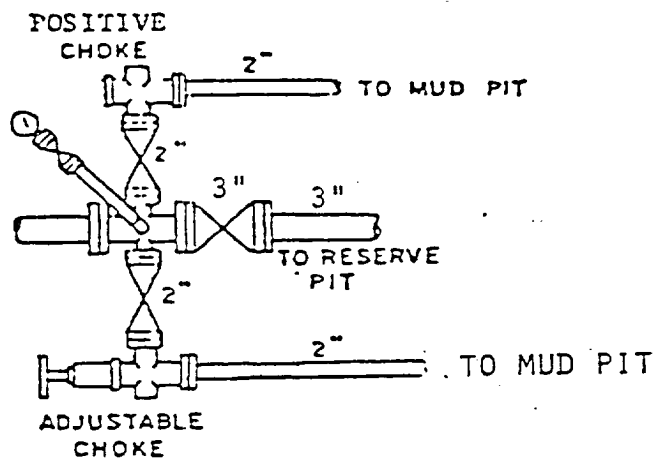
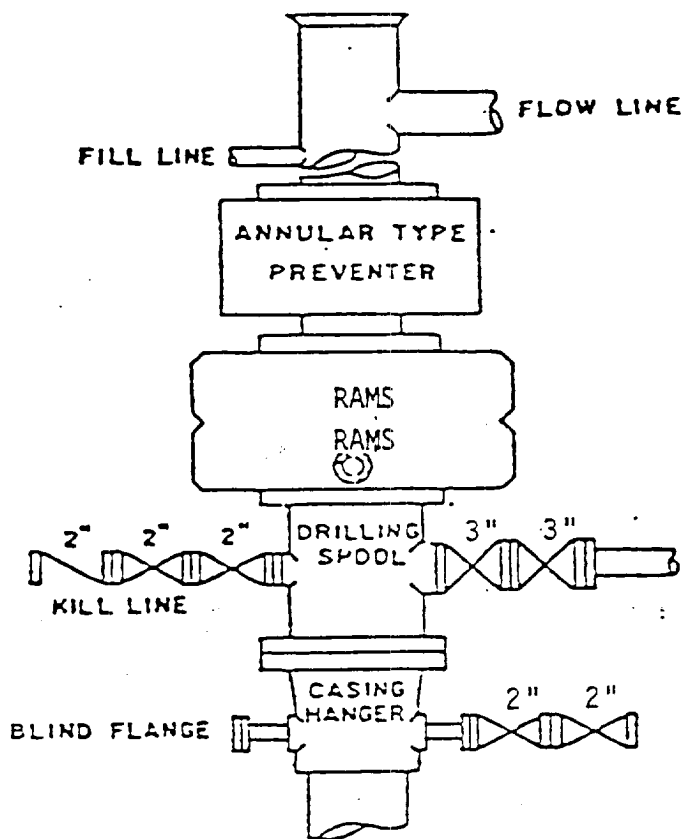
None anticipated.

Expected bottom hole pressure is about 3600 psi.

Expected bottom hole temperature is about 127degrees Fahr.

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
AMAX 24 FEDERAL WELL NO. 9
1650'FSL & 1650'FWL SEC.24, T.23 S., R.31 E.
EDDY COUNTY, NEW MEXICO

LOCATED: 21 miles east of Loving, New Mexico.

FEDERAL LEASE NUMBER: NM-40655

LEASE DATE: July 1, 1980.

ACRES IN LEASE: 320.

LESSEE: Pogo et al.

SURFACE OWNERSHIP: Federal.

GRAZING PERMITTEE: Charles F. James (505-885-3938)
1207 W. Riverside Drive
Carlsbad, New Mexico 88220

POOL: Undesignated Sand Dunes Brushy Canyon.

POOL RULES: Statewide Rules. 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 State highway 128 at Milepost 17.6, approximately 36 miles west of Jal, New Mexico, where Eddy County road 798 goes north. To go to the proposed well site from this point, go north on 798 2.5 miles to where a caliche road goes east about 500 feet to Pogo's Amax 24 Federal well No. 8. The proposed well is about 1300 feet east-southeast of this well. Also see Exhibits :B: and "D".

The well site can also be reached by going south off 62-180 at Milepost 66.8, approximately 38 miles west of Hobb, New Mexico, where Lea County C-29 goes south. From this point, go south 18.7 miles to the above referred to point where the caliche road goes east to Pogo's Amax 24 Federal well No. 8.

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 new road will be 12 feet wide and about 1400 feet long, and is shown labeled and color coded red on Exhibit "B". The centerline of the proposed new road is staked and flagged.

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

C. Maximum Grade: Less than one percent.

D. Road Turnouts: Probably one.

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: None necessary. 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. Production from this well will be delivered to the lease tank battery

located, as shown on Exhibit "B", on the well pad at well No. 8. The flow line will be 3" SDR-7 polyethylene pipe laid on the ground alongside the planned access road and will extend from the well to the tank battery as shown on Exhibit "B". Anticipated flow line pressure is about 60 psi.

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, if present, from a pit opened on-site within the archaeologically cleared work area. Otherwise, caliche will be taken from an existing pit on Federal land in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 1, T.23 S., R.31 E., 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 the pits are dry.

C. Water produced during tests will be disposed of 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 necessary.

9. WELL SITE LAYOUT:

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

B. Clearing and levelling of the pad and pit area 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 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 land surface in the general area is gently undulating and dunny. In the immediate area of the well site, the land surface slopes gently to the northwest. Regionally, drainage is to the west and southwest.

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

C. Flora and Fauna: The vegetative cover is moderate and includes mesquite, shinnery oak, sand sage, 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: 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 a mile of the proposed well site.

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

G. Land Use: Grazing and wildlife habitat.

H. Surface Ownership: Federal.

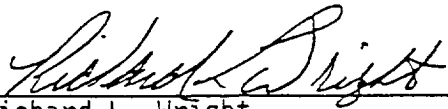
12. OPERATOR's REPRESENTATIVE:

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

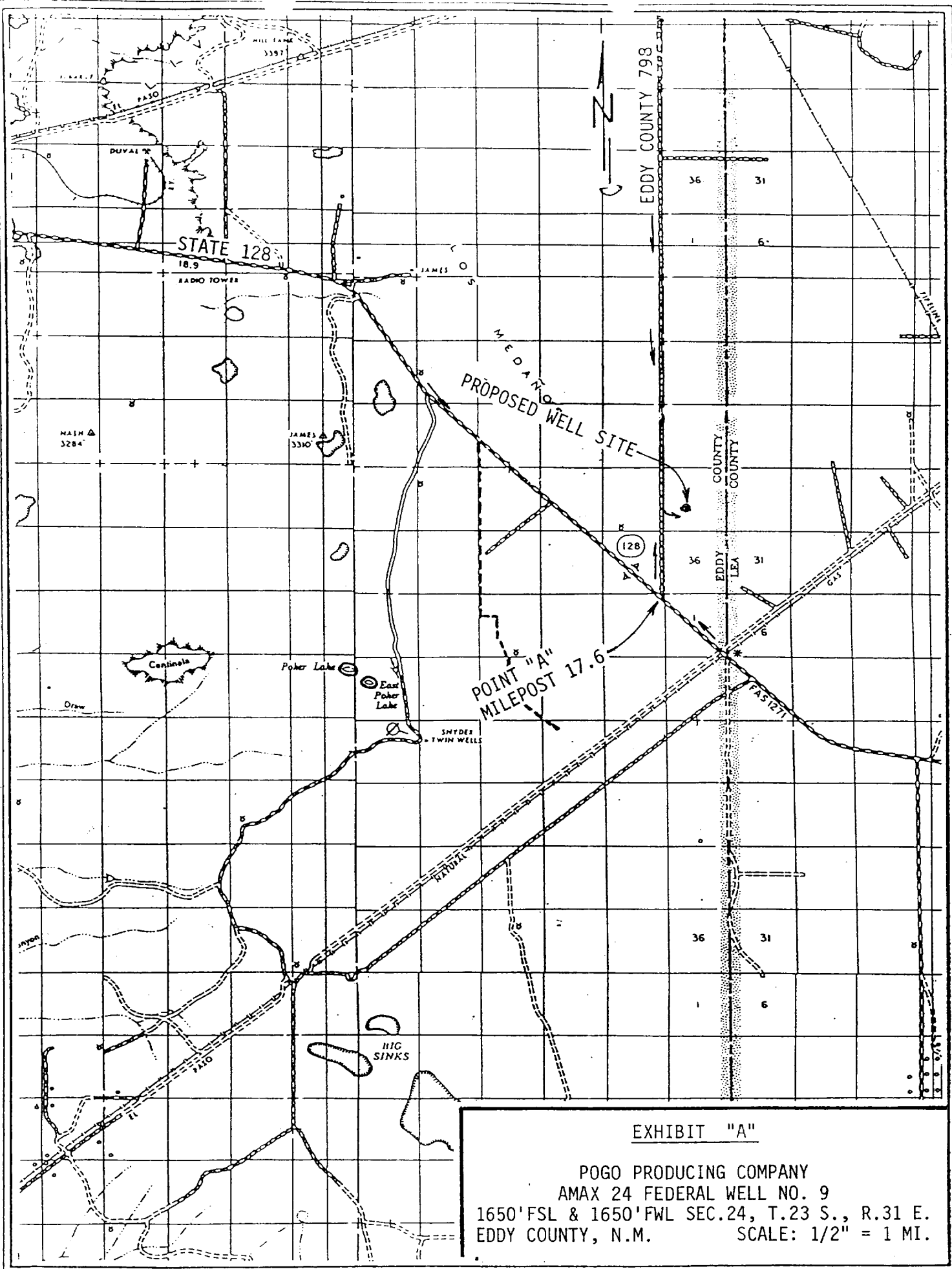
13. CERTIFICATION:

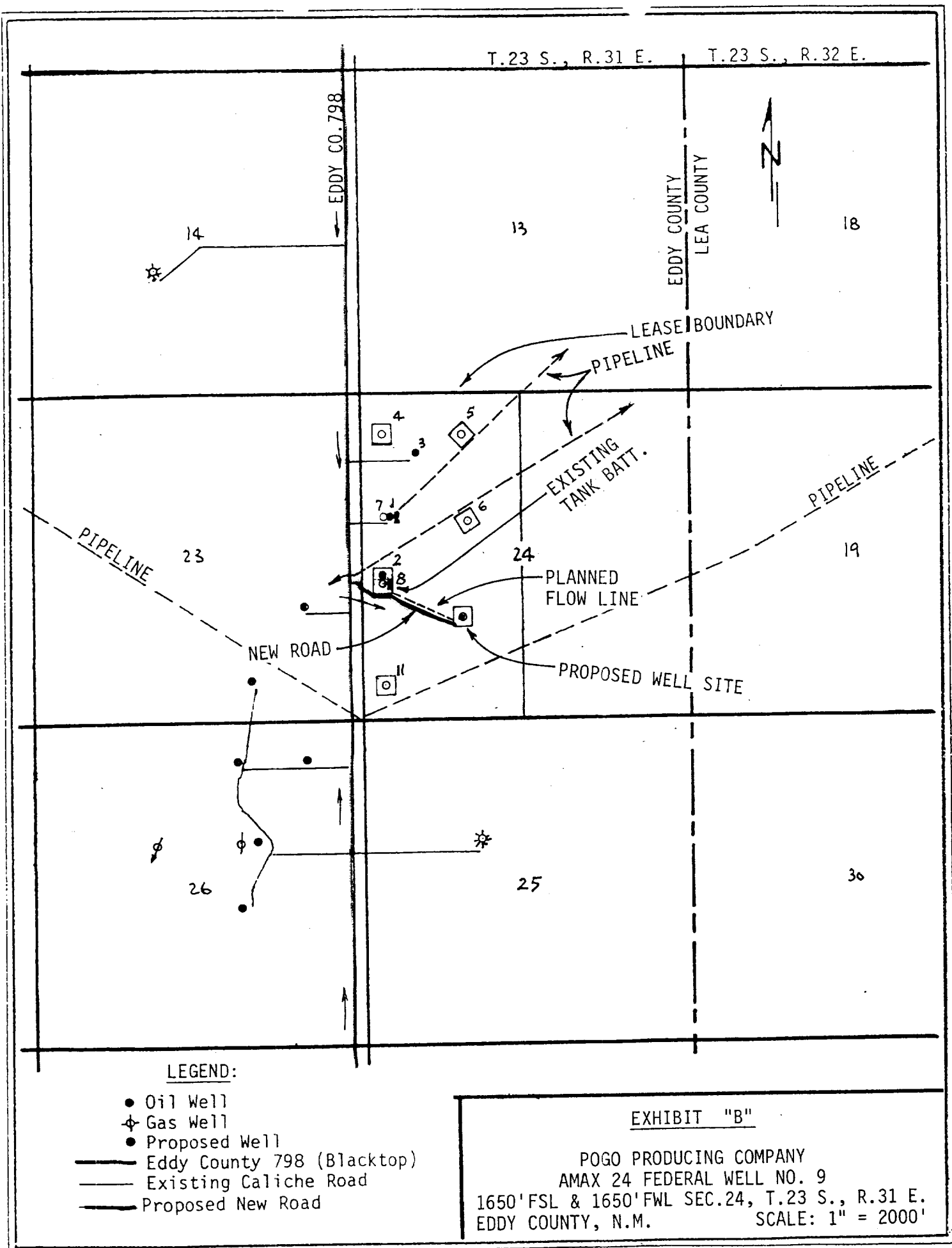
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated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

December 30, 1992
Date:



Richard L. Wright
Division Operations Supervisor





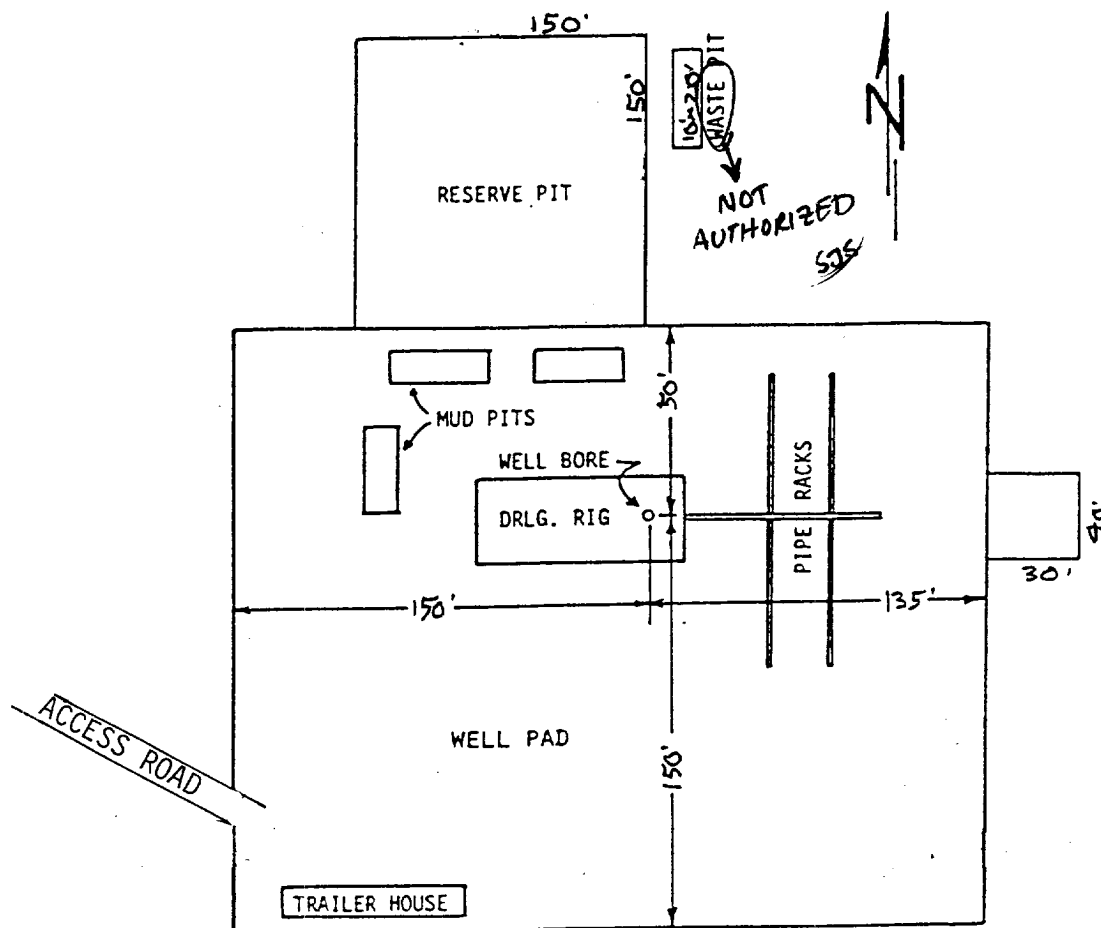


EXHIBIT "C"

POGO PRODUCING COMPANY
AMAX 24 FEDERAL WELL NO. 9

DRILLING RIG LAYOUT
SCALE: None

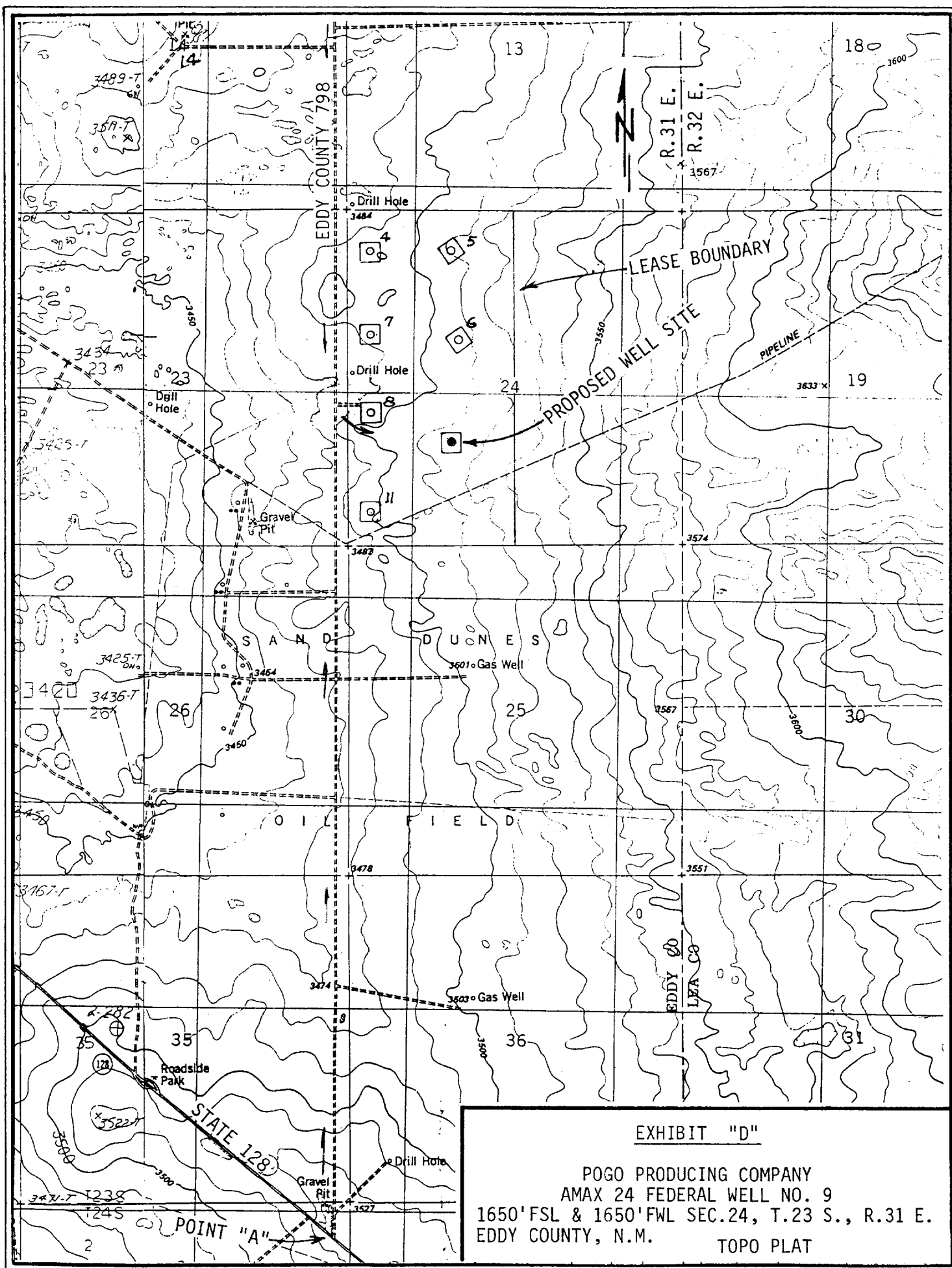


EXHIBIT "D"

POGO PRODUCING COMPANY
AMAX 24 FEDERAL WELL NO. 9
1650' FSL & 1650' FWL SEC. 24, T. 23 S., R. 31 E.
EDDY COUNTY, N.M.
TOPO PLAT

RECEIVED

JAN 15 1993

C. L. D.

JAN 15 1993

3160(067)
NM-40655

CERTIFIED--RETURN RECEIPT REQUESTED
P 864 875 259

Pogo Producing Company
Attention: Richard L. Wright
P.O. Box 10340
Midland, TX 79702

RE: Amax 24 Federal Well No. 9
NM-40655
1650' FSL & 1650' FWL, Sec. 24, T23S, R31E
Eddy County, New Mexico

Dear Mr. Wright:

On January 12, 1993, Pogo Producing Company filed an Application for Permit to Drill (APD) at the above referenced location. I am pleased to approve your APD at the present location. Your copy of the APD, with attached stipulations, is enclosed.

Through our analysis of the APD, we have determined that the well site is located a sufficient distance from the ore zones that potash resources should not be impacted.

If you need any additional information, please contact Tony Herrell in the Carlsbad Resource Area at (505) 887-6544.

Sincerely,

/s/ Monte G. Jordan

for Larry L. Woodard
State Director

1 Enclosure

bcc:

NM (910, L. Woodard)

NM (920, R. Smith)

NM (060, A. Lopez)

NM (060, L. Cone)

NM (067, T. Herrell) ✓