

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Artesia, NM 88210

30-015-26776
FILE

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM-15433
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR POGO PRODUCING COMPANY			7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. BOX 10340, MIDLAND, TEXAS 79702			8. FARM OR LEASE NAME FEDERAL 10
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 890' FNL AND 1880' FWL OF SECTION 10 At proposed prod. zone			9. WELL NO. 2
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* THREE MILES NORTH-NORTHEAST OF LOVING, NEW MEXICO			10. FIELD AND WELL NAME CULEBRA BLUFF BONE SPRINGS
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 760'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 10, T. 23 S., R. 28 E.
16. NO. OF ACRES IN LEASE 360			12. COUNTY OR PARISH EDDY
17. NO. OF ACRES ASSIGNED TO THIS WELL 40			13. STATE NEW MEXICO
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1420'			20. ROTARY OR CABLE TOOLS ROTARY
19. PROPOSED DEPTH 6450'			22. APPROX. DATE WORK WILL START* UPON APPROVAL
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3021.4' GL			

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
2-1/4"	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

Post ID-1
6-28-91
New Loc + API

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 Drilling and Prod. Supt. DATE 5-17-91
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Richard L. Wright TITLE _____ DATE 6-24-91

APPROVAL SUBJECT TO:
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

**P.O. Box 2088
Santa Fe, New Mexico 87504-2088**

RECEIVED
JUN 25 1991

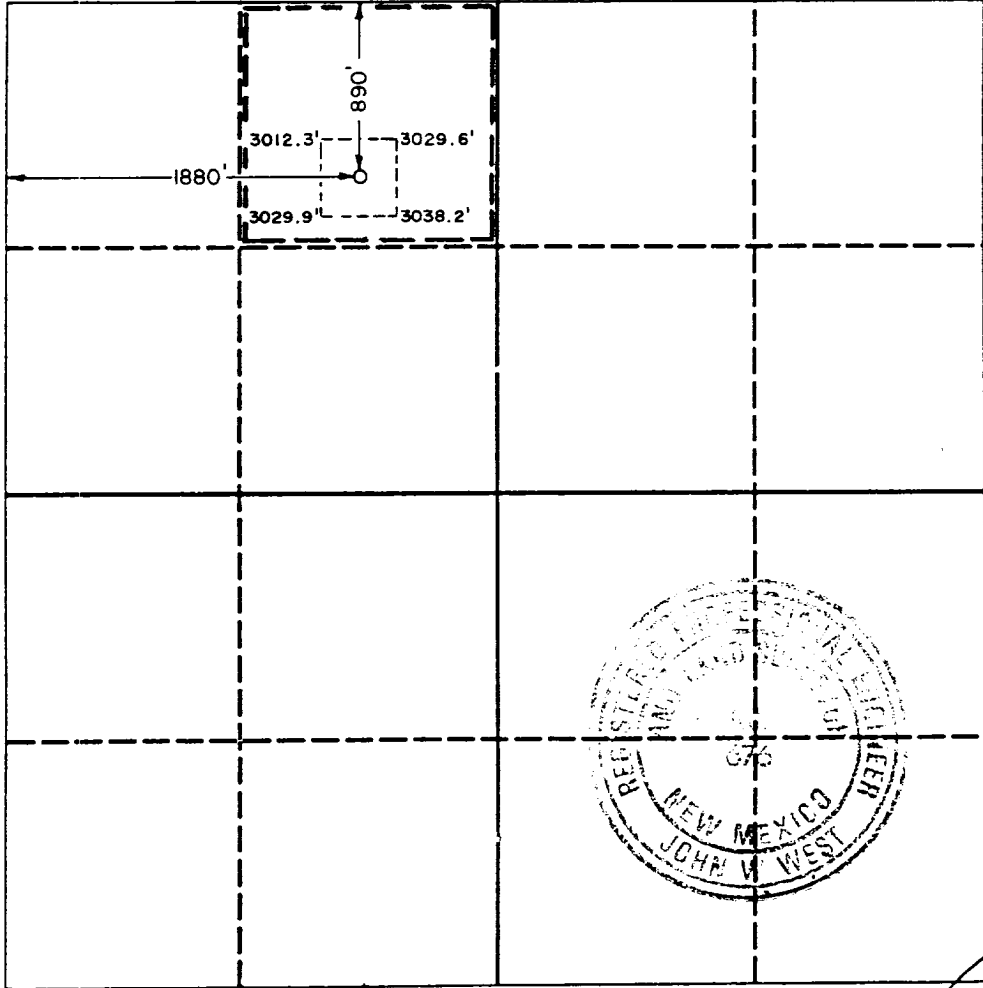

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

O. C. D.
ARTESIA, OFFICE

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 CO.			Lease FEDERAL "10"		Well No. 2
Unit Letter C	Section 10	Township 23 South	Range 28 EAST NMPM		County EDDY
Actual Footage Location of Well: 1880 feet from the WEST line and 890 feet from the NORTH line					
Ground level Elev. 3021.4'	Producing Formation <i>Delaware</i> BONE SPRINGS		Pool UNDESIGNATED <i>Lower Delaware</i> SOUTH CULEBRA BLUFF BONE SPRINGS		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 the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>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.</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: Dist. Drlg. & Prod. Supt.</p> <p>Company: POGO PRODUCING COMPANY</p> <p>Date: May 17, 1991</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: May 14, 1991</p> <p>Signature & Seal of Professional Surveyor: <i>John W. West</i></p> <p>Certificate No. JOHN W. WEST, 676 RONALD J. EIDSON, 3239</p>		

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY

FEDERAL 10 WELL NO.1

RECEIVED
JUN 25 1991
O. C. L.
ARTESIA OFFICE

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'
Bone Springs Lime	6250'

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.

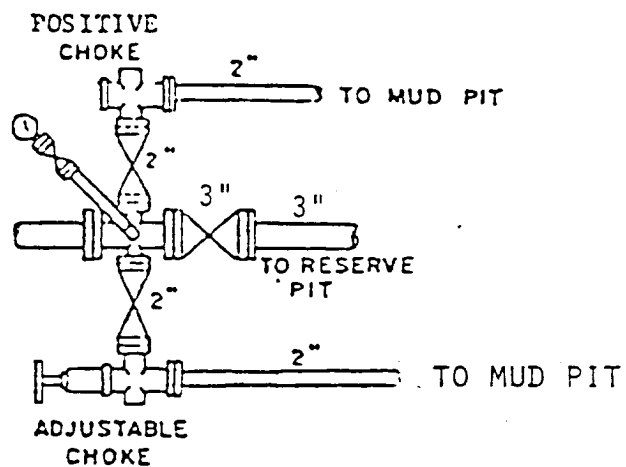
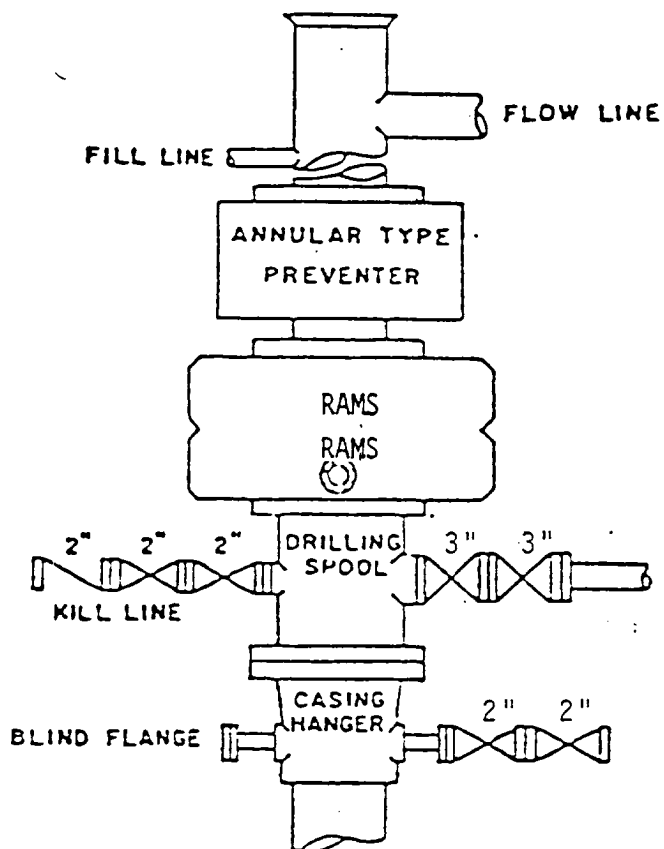
No coring is planned.

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.2
890'FNL & 1880'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 2.2 miles to Mile Marker 2.2 where a caliche road goes north. Exit State 31 to the north through the swing gate cattle guard (also see Exhibits "B" and "D") and go 0.8 mile to a point near well No.1. There is a centerline of road stake on the northwest side of the existing road, and the proposed well site is about 1800 feet north-northwest 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 new road will be 12 feet wide and about 1700 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: Caliche. Watered, compacted, and graded.

C. Maximum Grade: Approximately one percent.

D. Turnouts: None necessary.

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

F. Culverts: None necessary.

G. Cuts and Fills: None required.

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 existing lease tank

battery located at well No. 1. The flow line will be 3" O.D. SDR-7 polyethylene pipe laid on the ground alongside the road and will extend to a point opposite the tank battery where it will turn and go to the battery as shown on Exhibit "B". Anticipated line pressure is 60 psi. That part of the flow line not alongside the proposed access road 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 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 "C".

F. All trash and debris will be buried or removed from the well site within thirty days after finishing drilling and/or completion operations.

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, reserve pit, and trash pit, and the location of major drilling rig components.

B. Clearing and levelling of the well site will be required. The well pad will be oriented to V-door the drilling rig north.

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 north and northwest. Regionally, land drainage is to the east and south to the Pecos river.

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 about three-quarters of a mile to the north. There are no other nearby rivers, lakes, or ponds.

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.

May 17, 1991

Date:


Richard L. Wright, District Drilling and
Production Superintendent
Pogo Producing Company

T.23 S., R.28 E.

4

3

2

PECOS RIVER

PROPOSED WELL SITE

NEW ROAD

FLOW LINE

LEASE BOUNDARY

9

TANK BATTERY

STATE 31

11

16

15

14

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

POGO PRODUCING COMPANY
FEDERAL 10 WELL NO.2
890'FNL & 1880'FWL SEC.10, T.23 S., R.28 E.
EDDY COUNTY, N.M. SCALE: 1" = 2000'

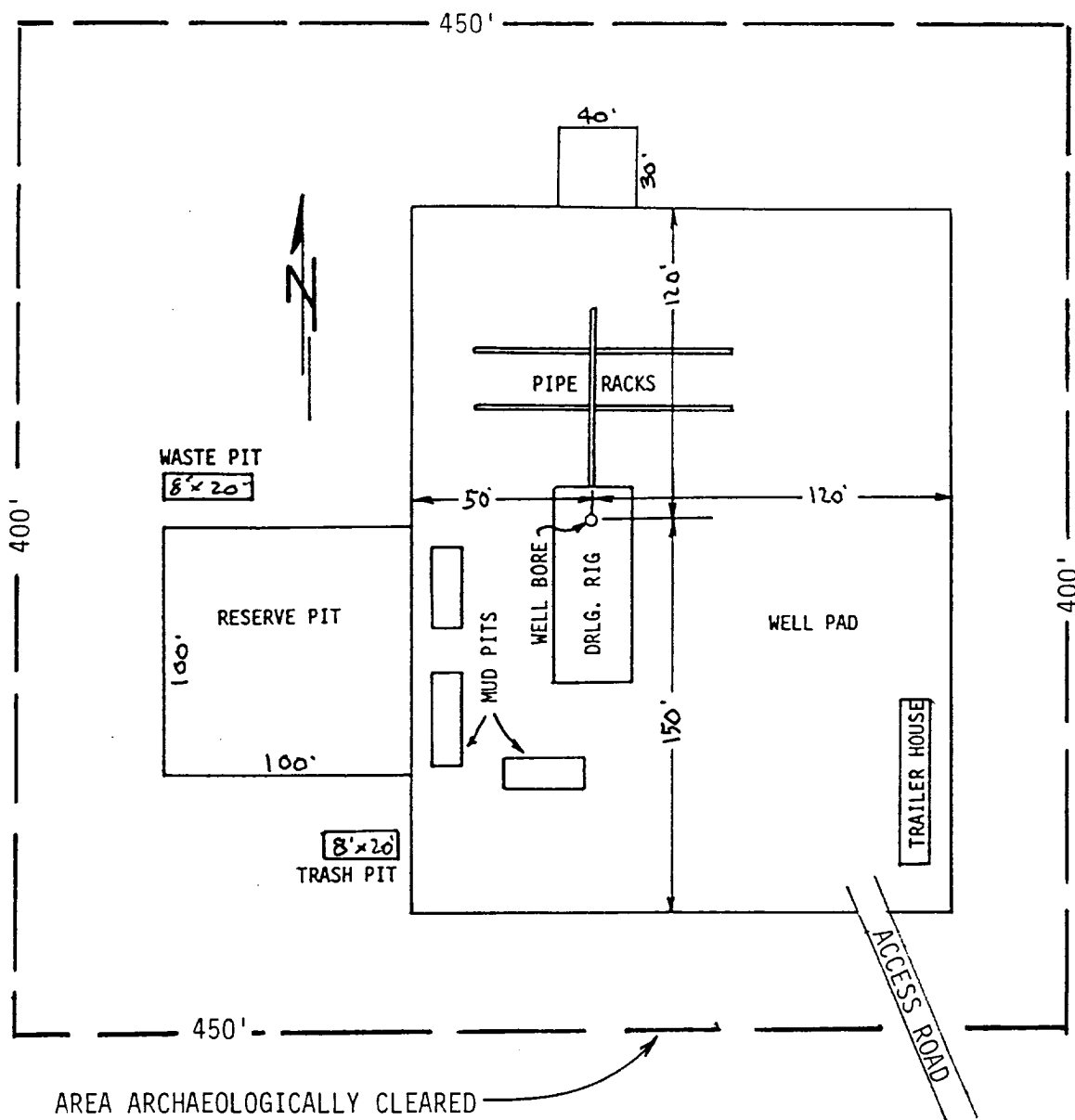


EXHIBIT "C"

POGO PRODUCING COMPANY
FEDERAL 10 WELL NO.2
DRILLING RIG LAYOUT
SCALE: None

