

30-015-24424

NM OIL CONS COMMISSION
Drawer DD
Artesia, NM UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBJECT: **PERMITS**
(Other instructions on reverse side)

Form No. 42-11415

5. LEASE FIRST RECORD AND SURFACE NO.
NM 15433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
NE Loving

8. FAEM OR LEASE NAME
NEL

9. WELL NO.
4

10. FIELD AND POOL, OR WILDCAT
Loving Cherry Canyon

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 9, T-23-S, R-28-E

12. COUNTY OR PARISH
Eddy

13. STATE
New Mexico

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 ☐

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 & 660' FEL
At proposed prod. zone
1980' FNL & 660' FEL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
2 Miles North 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.
660'

19. PROPOSED DEPTH
4400'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3046.0 GR

22. APPROX. DATE WORK WILL START*
April 1, 1983

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FEB 17 1983
O. C. D. ut #
ARTESIA, OFFICE

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	440	350 sxs CIRCULATE
7 7/8	5 1/2	14	4400	1200 sxs CIRCULATE

Proposal is to drill a well to test the Delaware formation. Cement will be circulated to the surface on the 8 5/8" and 5 1/2" casing strings. Completion or abandonment will be performed in accordance with prudent practices and MMS regulatory requirements.

Casing head gas is dedicated.

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FEB 7 1983
NEW MEXICO GEOLOGICAL SURVEY

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 **[Signature]** TITLE **Division Operations Manager** DATE **2/3/83**

(This space for Federal or State office use)

APPROVED

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY **FEB 15 1983** TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY

JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DECLARATION

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JAN 25 1983

All distances must be from the corner to the corner of the section.

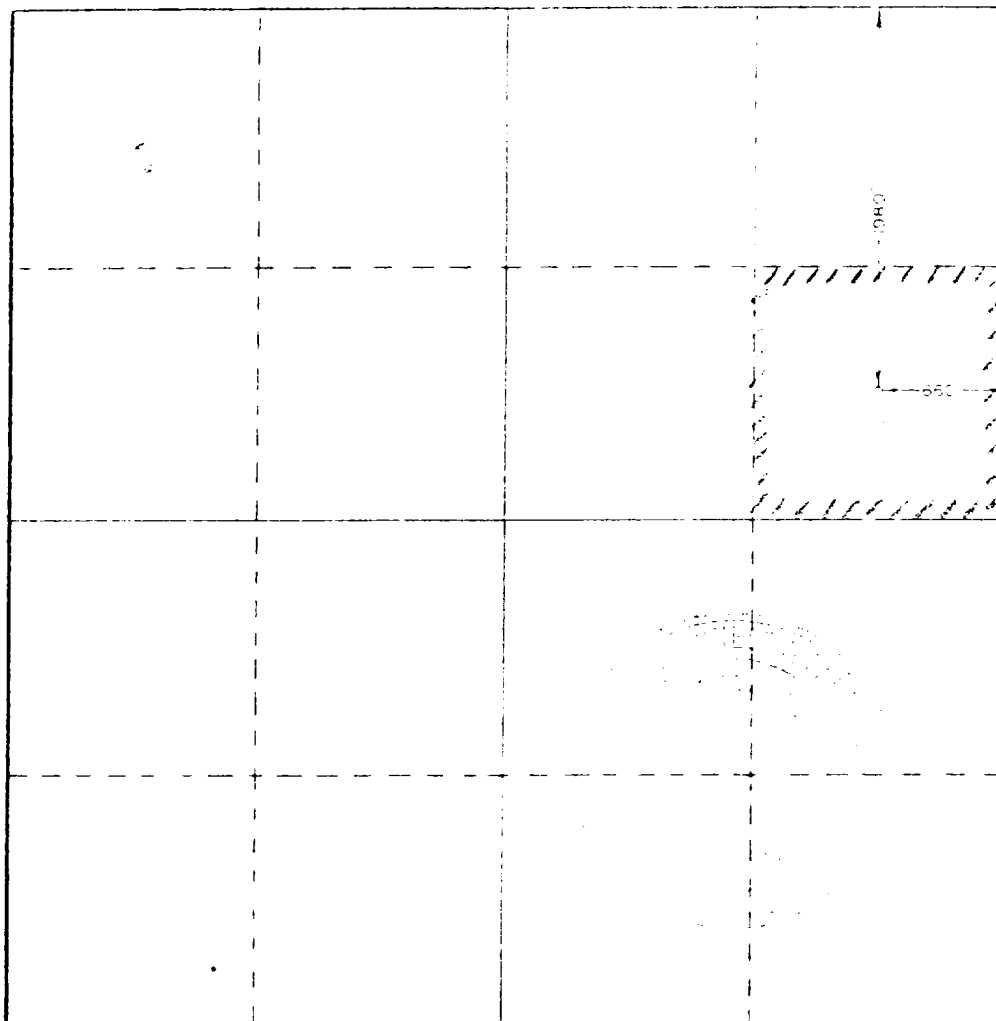
POGO PRODUCING CO.		NEEL		HIGHLAND	
H	9	23 SOUTH	29 EAST	EDDY	
Section of Acreage:					
1980	feet from the	NORTH	feet from the	EAST	feet from the
3046.0	Producing Formation	Cherry Canyon	Pool	Loving Cherry Canyon	Estimated Acreage: 40

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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, force-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

B.J. Williams

President
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 Licensed Surveyor

John W. West

Certificate No.
JOHN W. WEST NO. 676

APPLICATION FOR DRILLING

Pogo Producing Company

NEL No. 4

Eddy County, New Mexico

In conjunction with permitting the captioned well for drilling in Section 9, T-23-S, R-28-E, Eddy County, New Mexico, Pogo Producing Company submits the following information in accordance with U.S.G.S. (NTL-6) letter dated July 1, 1976:

1. The surface formation is Quaternary Sand and gravel.
2. Estimated tops of geologic markers as follows:

Triassic Red Beds	-	575'
Rustler Anhydrite	-	1050'
Delaware Limestone	-	2570'
Bell Canyon	-	2595'
Cherry Canyon	-	3560'

3. The depth at which oil, gas or water is expected is: 3560'.
4. Casing Program and Cement:

All casing is new.

8 5/8"-24.0# K-55 STC @ 440' w/350 sxs Cl C w/2% CaCl plus 1/4# flocele per sk.
5 1/2"-14.0# K-55 STC @ 4400' w/900 sxs Lt w/1/4# flocele plus 5# gilsonite
per sk plus 300 sxs Cl C Neat.

5. Blowout Preventers:

From 440' to 4400' - 3000# WP, 6000# Test.

6. Circulating Medium:

An earthen pit will be used to hold drilling fluids and cuttings. The drilling mud program is as follows:

Natural mud to 440'. Seepage will be controlled by paper. Brine water to 4400' with a viscous sweep prior to logging and running casing.

7. No cores or DST's are planned.
8. Ten foot samples of cuttings will be caught from the base of the surface pipe (440') to total depth.
9. Adequate electrical and resistivity logs will be run from total depth to the base of the surface casing at 440', the gamma ray will be run to the surface.

2000

DESIGN CONDITIONS

CLEARANCE

RECOMMENDED CASING STRINGS

WELL HEAD RECOMMENDATIONS:

ACCESSORY RECOMMENDATIONS:

Per 2/4/83

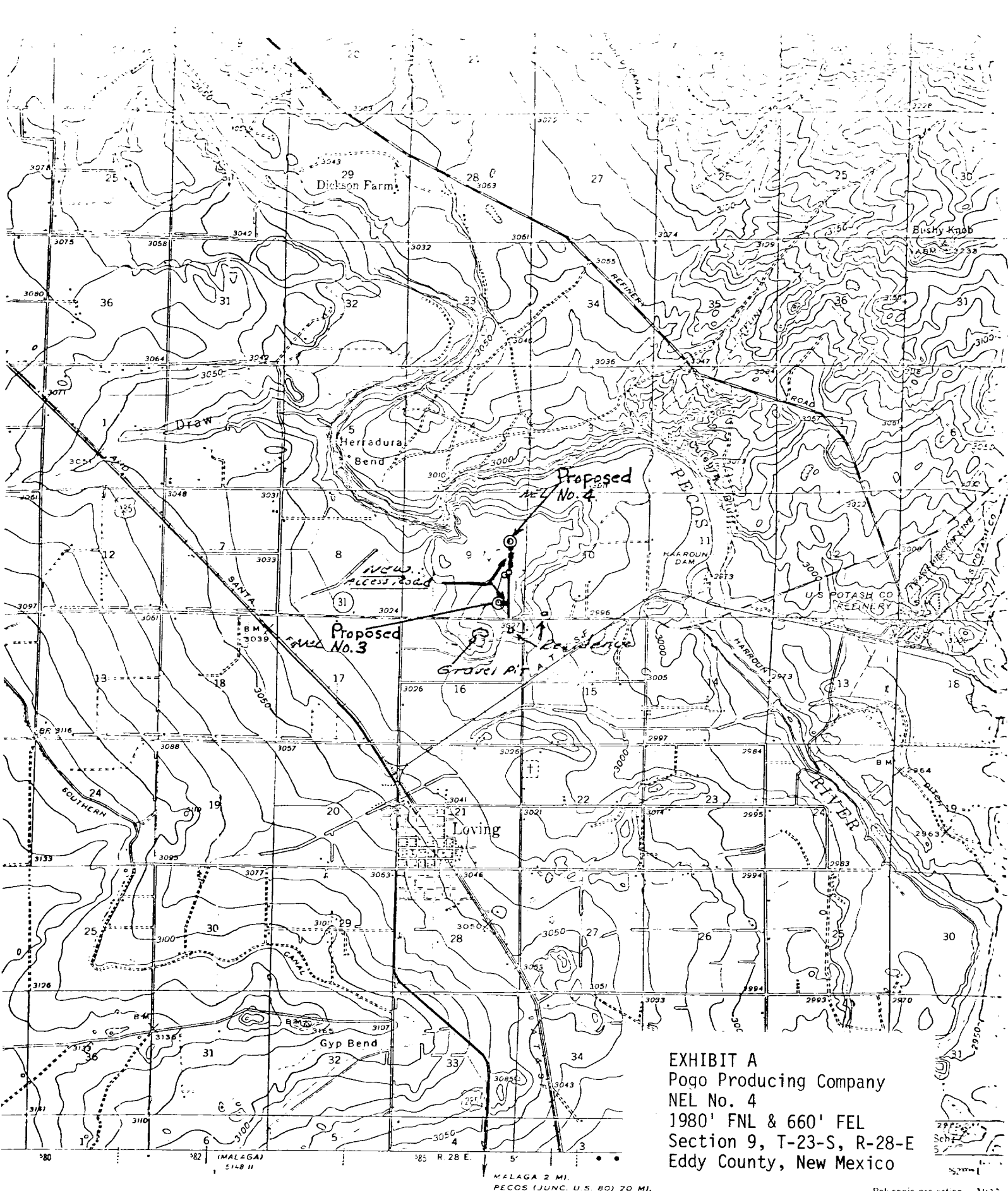


EXHIBIT A
Pogo Producing Company
NEL No. 4
1980' FNL & 660' FEL
Section 9, T-23-S, R-28-E
Eddy County, New Mexico

Polyconic projection. 1927
5000 yard grid based on
10000 foot grid based on
rectangular coordinate system
1000 meter Universal Transverse
zone 13, shown in blue



CARLSHA

12716

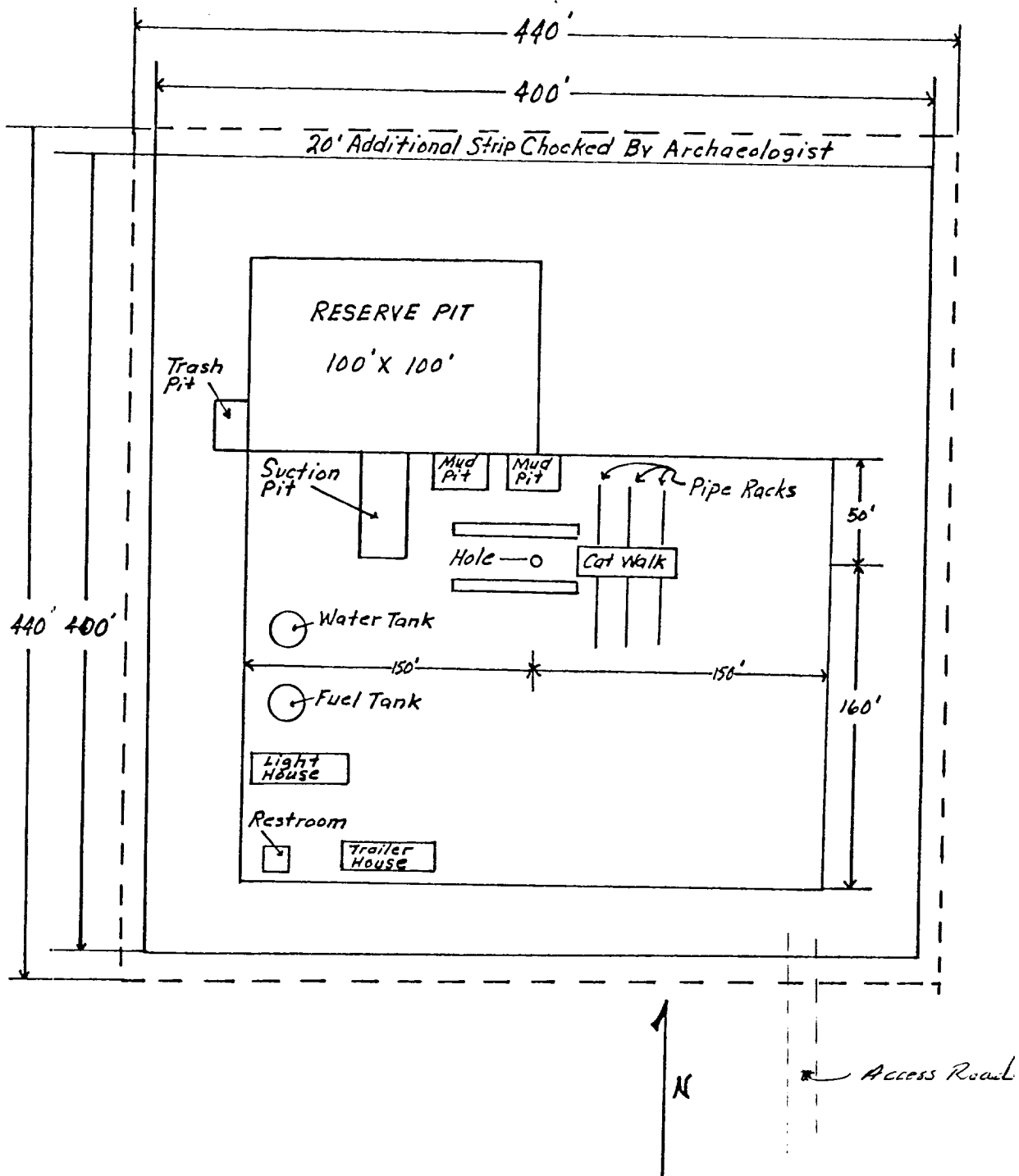


EXHIBIT C
 Pogo Producing Company
 NEL No. 4
 1980' FNL & 660' FEL
 Section 9, T-23-S, R-28-E
 Eddy County, New Mexico