

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

NM OIL & GAS
Artesia, NM 88210

30-015-24100

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

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
10 miles south of Malaga

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 1400

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. NONE

19. PROPOSED DEPTH 7800

20. ROTARY OR CABLE TOOLS Rotary Tools

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 2945' - GR

22. APPROX. DATE WORK WILL START* February 15, 1982

5. LEASE DESIGNATION AND SERIAL NO. NM - 12559

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME Federal 11

9. WELL NO. 1

10. FIELD AND POOL, OR WILDCAT Wildcat-Rose Spring

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 12, T-26-S R-28-E

12. COUNTY OR PARISH Eddy

13. STATE New Mexico

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	48	250	275 sx - circ
12 1/4	8 5/8	24 & 32	2640	1100 sx - circ
7 7/8	5 1/2	14, 15.5, 17	7800	985 sx - tie back to 8 5/8" csg.

Proposal is to drill a well to adequately test the Bone Springs formation. Cement will be circulated to surface on the 13 3/8" and 8 5/8" casing string. The cement will be brought up high enough on the 5 1/2" production string to tie back to the 8 5/8" casing. Completion or abandonment will be performed in accordance with prudent practice and regulatory requirements.

BOP PROGRAM:

From 250 - 7800 - 10" Cameron Type QRC 900 Series 3000# WP Double BOP
Gas on the lease is not dedicated.

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 R. Henry TITLE Division Engineer DATE February 11, 1982
(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

FEB 19 1982

JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

APPROVAL DATE
APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHEDRECEIVED
FEB 19 1982
U.S. GEOLOGICAL SURVEY
ROSOWELL, NEW MEXICO

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

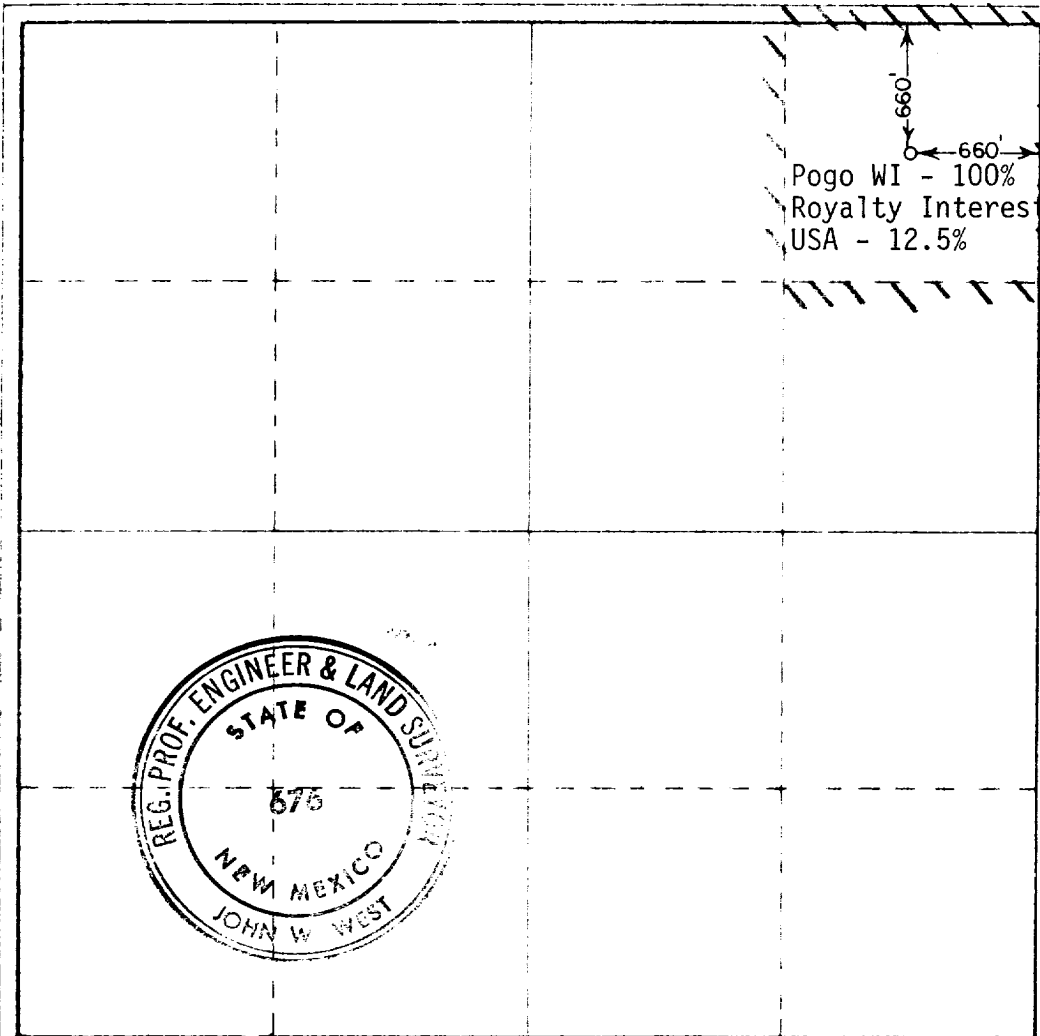
Owner POGO PRODUCING CO.			Lease FED "11"		Well No. 1
Section A	Section 12	Township 26 S	Range 28 E	County EDDY	
Approximate Location of Wells 660 feet from the NORTH line and 660 feet from the EAST line					
Surface Elev. 2945.1	Producing Formation Bone Springs	Pool Wildcat - Bone Springs		Dedicated Acreage 40 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.

Name *James R. Henry*
Position

Division Engineer

Company
Pogo Producing Company

Date
2-11-82

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.

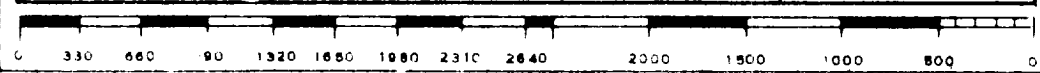
Date Surveyed

2-10-82

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6865
Ronald J. Eidson 3239



APPLICATION FOR DRILLING

Pogo Producing Company

Eddy County, New Mexico

In conjunction with permitting the captioned well for drilling in Section 12, T-26-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:

Rustler Anhydrite	-	800'
Delaware Lime	-	2630'
Bone Springs	-	6370'

3. The depths at which oil, gas or water are expected are: 2630', 6370'.

4. Casing Program and Cement:

All casing is new.

13 3/8" 48# ST&C 250' w/275 sxs Cl C w/2% CaCl plus 1/4# flocele per sk.

8 5/8" 24# & 32# K-55 ST&C 2640' w/900 sx. LT w/1/4# flocele plus 8# salt per sk plus 200 sxs Cl C w/2% CaCl.

5 1/2" 14, 15.5, & 17#, K-55 ST&C @ 7800' w/first stage: 465 sxs 50-50 Cl C Pozmix A w/0.5% CFR-2, 6 lbs salt, and 1/4# flocele per sk. Second stage: 420 sx TL w/0.5% CFR-2 & 1/4# flocele per sk. followed by 100 sx Class C w/0.5% CFR-2.

5. Blowout Preventors:

From 250' to 7800' - 10" Cameron Type QRC 900 series 3000# WP, Double BOP.

BOE will be tested daily and entered on daily drilling log.

6. Circulating Medium:

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

Natural mud to 250'. Seepage will be controlled by paper. Brine water to 2630'. Fresh water from 2630' to top of Bone Springs and increased to cut brine. (9.2 - 9.8 ppg) to total depth.

Page 2.

7. The rig will be equipped with a kelly cock, TIW valve and Hydril annular BOP. Operational tests will be performed periodically and results noted on tour sheets.
8. Drill stem test are possible for the Delaware Sands and Bone Springs. No core tests are planned.
9. Ten foot samples of cuttings will be caught from the base of the surface pipe (250') to total depth. A mud logging unit is planned from the base of the intermediate casing (2640') to total depth.
10. Adequate electrical and resistivity logs will be run from total depth to the base of the intermediate casing at 2640', the gamma ray will be run to the surface.
11. No abnormal temperatures or additional hazards are expected to be encountered.
12. The anticipated starting date is February 15, 1982 with the completion expected by April 1, 1982.

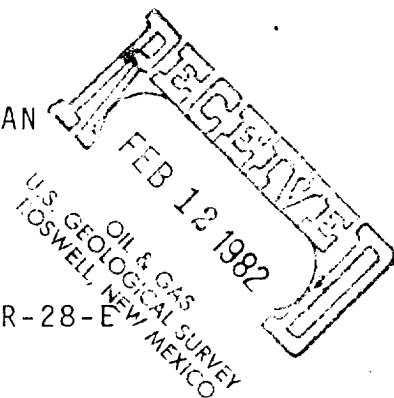
MULTIPOINT SURFACE USE AND OPERATION PLAN

Pogo Producing Company

Federal 11 No. 1

660' FNL & 660' FEL, Section 12, T-26-S, R-28-E

Eddy County, New Mexico



This plan is submitted with the Application for Permit to Drill the captioned well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of drilling operations.

1. Existing Roads:

Existing roads in the vicinity of the planned well are shown on Exhibit A, attached. The well is located 10 miles South of Malaga.

No additional improvement or maintenance of existing roads will be required.

2. Planned Access Roads:

An access road will be constructed north from the pipeline road (see Exhibit A) 12' wide of caliche compacted to 6" in depth. The center line of the access road has been staked and flagged.

3. Location of Existing Wells:

Maddox energy has a producing Bone Springs well in Section 2 6950' West of proposed well. See Exhibit B.

4. Location of Existing and/or Proposed Facilities:

There are no existing facilities on the lease at present. If production is established, producing facilities and tank battery will be constructed on the drilling pad and no additional surface disturbance will be required.

5. Location and Type of Water Supply:

Water Used in the drilling of the well will be purchased and trucked to the wellsite over roads as shown on Exhibit A.

6. Source of Construction Materials:

Caliche will be added to the roadway and drilling pad and will be obtained from a privately owned pit located in the NW corner of Sec. 8, T-26-S, R-28-E. The pit is 1.2 miles E of proposed drilling location. See Exhibit A.

Page 2.

7. Method of Handling Waste Disposal:

- A. Drilling cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits. Oil produced during tests will be stored in steel test tanks until sold. Water produced during tests will be disposed of in the drilling pits.
- C. Sewage will be collected in a pit at least 6' deep below an outside latrine. Suitable chemicals will be added to acid decomposition of the waste material and then back filled following completion of the well. A portable toilet will be utilized with waste picked up by a vacuum truck and removed from the area.
- D. 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 trash pit is shown on Exhibit C.
- E. All trash and debris will be buried or removed from the wellsite within 30 days after cessation of drilling or completion operations.

8. Ancillary Facilities:

None required.

9. Well Site Layout:

- A. Exhibit C shows the relative location and dimensions of the well pad, mud pits, reserve pits, trash pit and major rig components.
- B. The proposed well site is situated on flat land and will require only minimal levelling.
- C. The reserve pit will be lined.
- D. The pad and access road has been staked and flagged.

10. Plans for Restoration of the Surface:

- A. After completion of drilling and/or completion operations, all equipment and other materials not needed will be removed. Pits will be filled after sufficient drying time and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing condition.

Page 3.

10. CONTINUED.

- B. All unguarded pits containing fluids will be fenced until filled.
- C. After abandonment of the well, surface restoration will be in accordance with the agreement BLM regulations. Rehabilitation will be accomplished within 90 days after abandonment.

11. Other Information:

- A. Terrain - The investigated area is situated on a terrace 0.6 miles east of the Pecos River. On the west and north the location is bordered by a series of camelback eminences. The land has a slight slope from west to east of approximately 0.75 m. Minor rills and water courses braid the area. Soil individuals are composed of sandy loams.
- B. Floristics - Chief plants of this landform are Prosopis, juliflora, Larrea tridentata, and Artiplex canescens. Less frequent are Condalia lycioides and Yucca glauca. Forbs of this association are Lepidium sp., Gutierrezia sarothrae, Salsola kali, Senecio longilobus and Perezia nana. The Gramineae is represented by Chloris cucuclata and Setaria macrostachys and less frequent Sporobolus airoides.
- C. Ponds and Streams - The Pecos River is approximately 0.6 miles to the east.
- D. Occupied Dwellings - None.
- E. Cultural Resources - No archaeological resources were observed in the area.
- F. Land Use - Grazing and hunting in season.
- G. Surface Ownership - The surface is Federal land and the current grazing lessee is Delaware Ranch Inc. which can be contacted through:
Draper Brantley, Jr.
Route 1, Box 22-B
Loving, New Mexico 88256

Page 4.

12. Operator's Representatives:

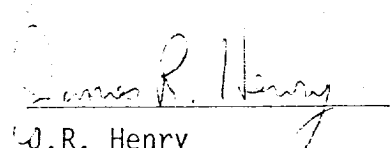
W.E. Barnes
3778 Maple
Odessa, Texas 79762
Home phone - 915-362-7935

J.R. Henry
P.O. Box 10340
Midland, Texas 79702
Office phone - 915-682-6822
Home phone - 915-367-5545

13. Certification:

I hereby certify that I or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently 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.

2-11-62
Date


J.R. Henry
Division Engineer
Pogo Producing Company

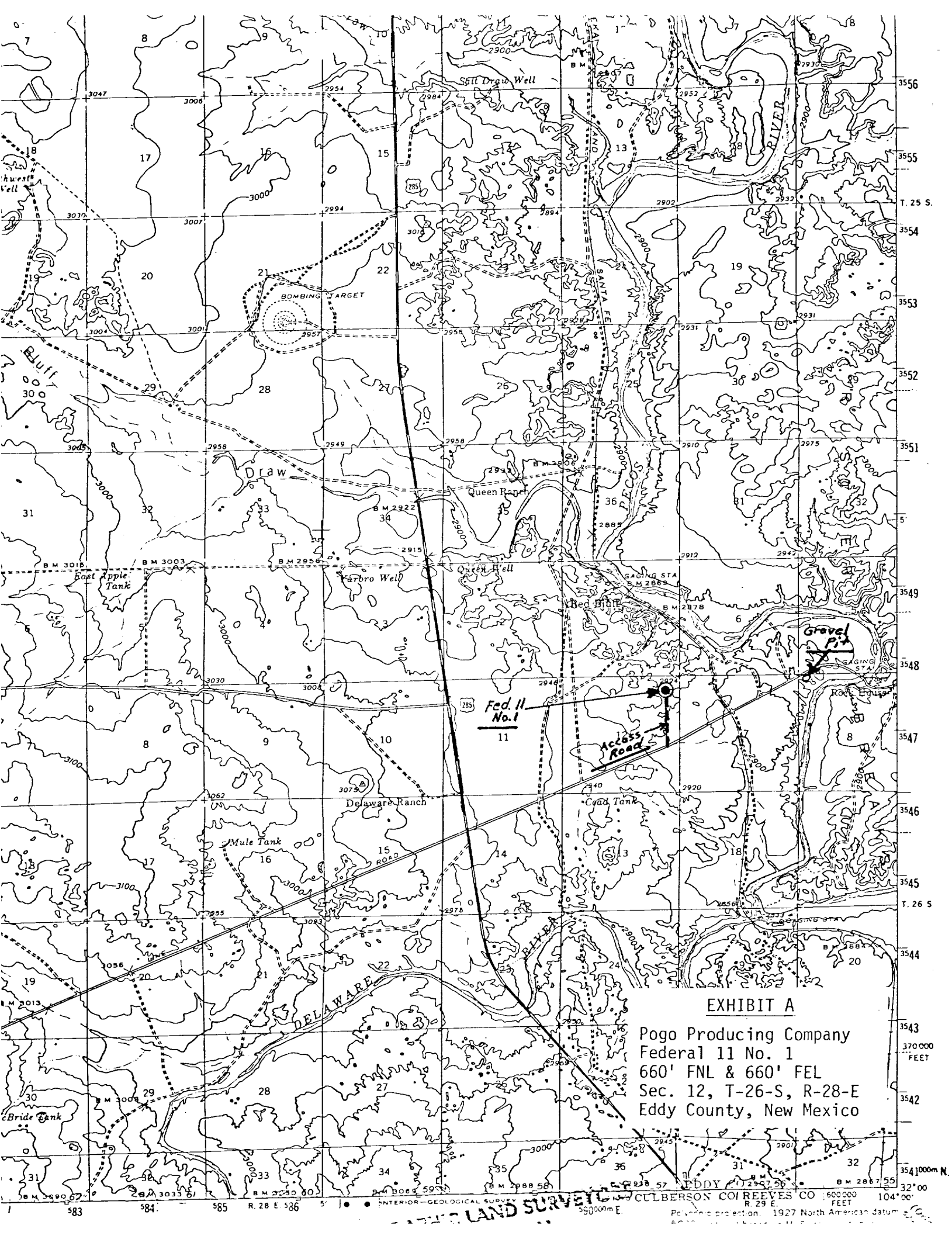
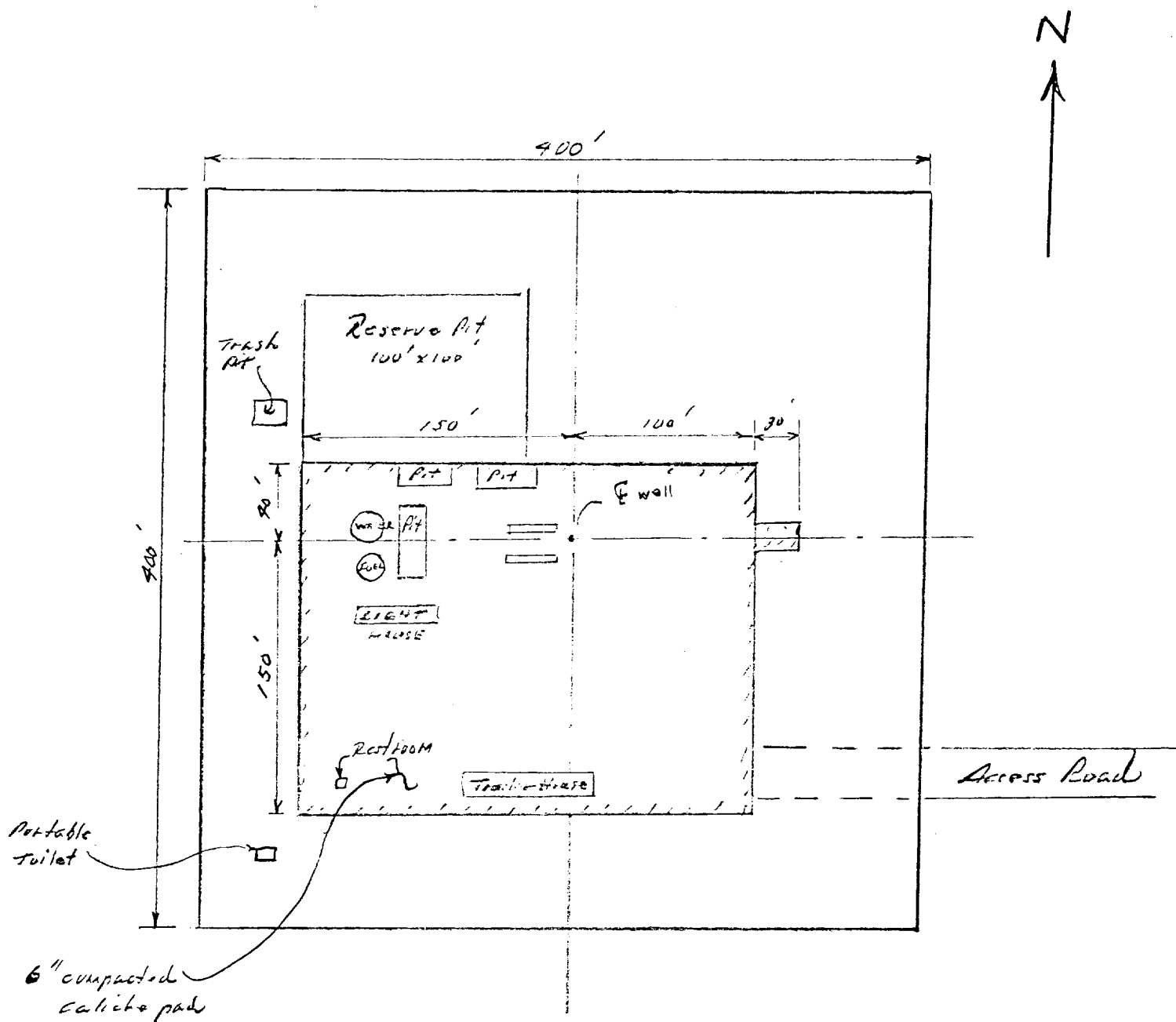


EXHIBIT A

Pogo Producing Company
Federal 11 No. 1
660' FNL & 660' FEL
Sec. 12, T-26-S, R-28-E
Eddy County, New Mexico

LAND SURVEY

CULBERSON CO REEVES CO 500000 FEET 104'00" POLYCONIC PROJECTION, 1927 NORTH AMERICAN DATUM



R/jw 2/10/82

EXHIBIT C

Pogo Producing Company
 Federal 11 No. 1
 660' FNL & 660' FEL
 Sec. 12, T-26-S, R-28-E
 Eddy County, New Mexico