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Pogo Producing	g Company						9. WELL NO.	
3. ADDRESS OF OPERATOR				AP	PR 28	1981	2	
P.O. Box 10340) Midland, Tex	as 79702				, 1001	10. FIELD AND POOL, OR WILDCAT	
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14. DISTANCE IN MILES A			T OFFICE	*			12. COUNTY OR PARI	
	of Loving, New						Eddy	New Mexico
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 760'							DF ACRES ASSIGNED HIS WELL 40	
18. DISTANCE FROM PROPOSED LOCATION ⁶ TO NEAREST WELL, DRILLING, COMPLETED, OR APFLIED FOR, ON THIS LEASE, FT.			15. Thereone barra			_	RY OR CABLE TOOLS	WORK WILL START*
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23.]	PROPOSED CASH	NG ANI	CEMENTING	PROGRA	М		
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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.

SIGNED M Mulianer	Division Operations	Manager	DATE April 8, 1981
(This space for rederator State office use)			
Orig. Sell GRORID H. STRWAR'	TITLE	· · · · · · · · · · · · · · · · · · ·	DATE
CONDITIONS OF APPENDIAL LATY 98			
JAMES A. GILLHAM DISTRICT SUPERVISOR *S	ee Instructions On Reverse Side		

RECEIVED APR 1 3 1981

U.S. GEULUGICAL SURVEY ARTESIA, NEW MEXICO

MEXICO OIL CONSERVATION COMMIS N WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

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APPLICATION FOR DRILLING

Pogo Producing Company

NEL No. 2

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	-	580'
Rustler Anhydrite	-	975'
Delaware Lime	-	2586'
Delaware Sand	-	2610'

3. The depths at which oil, gas or water are expected are: 3650' and 3850'.

4. Casing Program and Cement:

All casing is new.

8 5/8" - 24.0# K-55 STC @ 440' w/500 sxs Cl C w/2% CaCl plus ¼# flocele per sk. 5 1/2" - 14.0# K-55 STC @ 4000' w/1400 sxs LT w/¼# flocele plus 5# gilsonite per sk plus 300 sxs Cl C w/2% CaCl.

5. Blowout Preventors:

From 440' to 4000' - 11" Series 600/900 Type 39.

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 4000' with a viscous sweep prior to logging.

- 7. Core tests are planned for the Delaware.
- 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.

Page 2.

- 10. No abnormal temperatures or additional hazards are expected to be encountered.
- 11. The anticipated starting date is May 1, 1981 with the completion expected June 1, 1981.

MULTIPOINT SURFACE USE AND OPERATIONS PLAN

Pogo Producing Company

APR 14 196

NEL No. 2

1880' FSL & 760' FEL, Section 9, T-23-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. Drilling Pad:

The proposed well will be drilled as a twin well to the Pogo NEL "Com" No. 1 utilizing the same drilling pad and access road. No additional disturbance to the previously approved surface plan is contemplated.

2. Existing Roads:

Existing roads in the vicinity of the planned well are shown on Exhibit A, attached. The well is located $2\frac{1}{4}$ miles North of Loving.

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

3. Location of Existing Wells:

Pogo Producing Company has completed the NEL "Com" No. 1 from the Atoka formation approximately 141' NE of the proposed location. The well is currently shut in waiting on pipeline connection.

Gulf Oil Corporation has a producing gas well approximately 4000' SSW.

Coquina has begun drilling a Morrow test approximately 4400' SSE.

4. Location of Existing and/or Proposed Facilities:

Production facilities for the well will be constructed on the drilling pad in the same general area as facilities for the NEL "Com" No. 1.

5. Location and Type of Water Supply:

Water used in the drilling of the well well be purchased and trucked to the well site over existing roads as shown on Exhibit A.

Page 2.

6. Source of Construction Materials:

None required.

- 7. Method of Handling Waste Disposal:
 - A. Drill 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 aid 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 an existing pad and will require no additional land disturbance.
- C. The reserve pit will be lined.

Page 3.

- 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.
 - 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 the crest of an eminence overlooking the Pecos River flood plain. Areal topography is characterized by riverine terraces and rolling hills with tributary draws, washes and valleys interposed. Subject to sheetwash, crests are covered with frequent limestone cobbles and gravels. Bottomlands are overlain with alluvium subject to puddling and scaling. Soils consist of an interplay of gravelly clay loams, depending on the associated slope, and occasionally harbor quartzite cobbles. Peds belong to the Typic Paleorthid and Typic Haplargid subgroups.

B. Floristics-

Local soils support a low floral overstory of Prosopis juliflora, Yucca glauca, Koberlinia spinosa, Atriplex canescens, Condalia ericoides, and Condalia lycioides. Forbs of the understory are: Gutierrezia sarothrae, Astragalus sp., Sartwellia sp., Euphorbia sp., and Croton sp. Among the Cactaceae are: Opuntia macrocentra, Opuntia leptocaulis, and Opuntia imbricata. Local grasses are: Sporobolus sp., Scleropogon brevifolius, and Boutleoua sp.

- C. Ponds and Streams-There are no rivers, streams, lakes, or ponds in the immediate area.
- D. Occupied Dwellings-

There is a residence located in the extreme NE corner of Section 16, approximately 2200' SSE of the proposed location.

- E. Cultural Resources-No archealogical resources were observed in the area.
- F. Land Use-

Grazing and hunting in season.

Page 4.

G. Surface Ownership-

The surface is Federal land and the current grazing lessee is Mr. Gary Thompson, P.O. Box 653, Carlsbad, New Mexico 88220.

12. Operator's Representatives:

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

B. J. Williams Suite 408 Blanks Bldg. P.O. Box 10340 Midland, Texas 79702 Office phone - 915-682-6822 Home phone - 915-694-2215

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.

Jate april 10, 195/

Antiliams B. J. Williams

B. V. Williams Division Operations Manager Pogo Producing Company



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