

# United States Department of the Interior

BUREAU OF LAND MANAGEMENT ROSWELL DISTRICT OFFICE P.O. BOX 1397 ROSWELL, NEW MEXICO 88201



NN-29233 3162.41 (065) APR 07 '88

O. C. D. ARTESIA, OFFICE

Pogo Froducing Company P. O. Box 10340 Midland, TX 79702

APR 0 6 1998

Dear Sir:

Your application for Permit to Drill the Neff 13 No. 1 well in the NW1SE2 sec. 13, T. 22 S., R. 31 E., Eddy County, New Mexico, lease NM-29233, to a depth of 15,200 feet to test the Morrow formation in the oil-potash area, is hereby approved as amended by stipulations attached to the application.

One copy of the application is returned berewith. Please notify the Bureau of Land Management office checked on the attached special stipulation, in sufficient time for a representative to witness all comenting operations.

Approval of the application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Sincerely.

Orig. Sgd. David L. Mari



Francis R. Cherry, Jr. District Manager

1 Enclosure:

 $\sqrt{\text{NMOCD} - \text{Artesia} - 2}$ NM (067) - 2 NM (065) - 1

Form 9-331 C (May 1963) UNITED STA				<b>RIPLICATE</b> actions on side)	Form approved. Budget Bureau No. 42-R1425.		
GEOLOGICAL SU		RIOR			5. LEASE DESIGNATION AND SERIAL NO.		
APPLICATION FOR PERMIT TO DRILL		EN, OR PI	LUG I	BACK	NM - 29233 6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
DRILL XX DEEPE	N 🗌	PLU	IG BA	СК 🗌	7. UNIT AGREEMENT NAME		
OIL WELL GAS WELL OTHER   2. NAME OF OPERATOR OTHER		NGLE XX	MULTIE ZONE		8. FARM OR LEASE NAME		
Pogo Producing Company 3. Address of Operator					Neff 13 9. WELL NO.		
P.O. Box 10340 Midland, 1 4. LOCATION OF WELL (Report location clearly and in accordance At surface	Texas	79702			10. FIELD AND POOL, OR WILDCAT		
1980' FSL & 1980' FEL	with any S	tate requiremen	ts.*)	1	Wildcat MORROW 11. SEC., T., R., M., OB BLK. AND SUBVEY OB AREA		
At proposed prod. zone <u>1980' FSL &amp; 1980' FEL</u> 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR			UK	2	Sec. 13, T-22-S, R-31-E		
36 miles WNW of Jal, New Mexico 15. DISTANCE FROM PROPOSED*	)				12. COUNTY OR PABISH 13. STATE Eddy New Mexico		
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 1980 ' (Also to nearest drig, unit line, if any)		OF ACRES IN L	EASE	17. NO. OI TO TH	F ACRES ASSIGNED IS WELL 320		
18. DISTANCE FROM PROPOSED LOCATION <sup>®</sup> TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.					ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*		
3593.6' GR					April 15, 1988		
PROPOSED CA SIZE OF HOLE SIZE OF CASING WEIGHT PE				M			
$\begin{array}{c c} \hline \hline \\ $	R FOOT	SETTING DEP	тн 		QUANTITY OF CEMENT		
	40.40 - 45.50 4530				XS CIRCULATE		
<u>9 1/2" 7 5/8"</u> 26.40 -	29.70	11,800		1500 s.			
6 1/2" 5" liner 18		15,200		300 s			
Proposal is to drill a well through run to evaluate all zones below the 1 Cement will be <u>circulated</u> to the sur 10 3/4" intermediate casing. BOP Program: 800' to 11,800' - 3000; 11,800' to 15,200' - 10 Natural gas on the lease is not dedi	face on # WP 0,000# W cated.	e formatio the 13 3/ NP	on. /8" su	urface o JunitAl MAJ	Casing and the Sof LAND MARKE FUELING RO2 1900		
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to de zone. If proposal is to drill or deepen directionally, give pertine preventer program, if any. 24. SIGNED	epen or plu nt data on	subsurface locat	a on prè tions and		6 tive word and proposed new productive nd true vertical depths. Give blowout <del>EW MC1.</del> ger DATE 2/26/88		
(This space for Federal or State office use)							
PERMIT NO.	AI	PROVAL DATE					
APPROVED BY T CONDITIONS OF APPROVAL, IF ANY :	ITLE		·		DATE		

\*See Instructions On Reverse Side

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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Yes Yes	🗌 No	o Ifa	nswer is "ye	s," type of co	nsolidation						
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# APPLICATION FOR DRILLING

## POGO PRODUCING COMPANY

# NEFF 13 NO. 1

# EDDY COUNTY, NEW MEXICO

In conjunction with permitting the captioned well for drilling in Section 13 T-22-S, R-31-E, Eddy County, New Mexico, Pogo Producing Company submits the following in accordance with U.S.G.S. (NTL-6) letter dated July 1, 1976:

1. The surface formation is Quarternary sand and gravel.

2. Estimated tops of geologic markers as follows:

Rustler Anhydrite and Dolomite Salado Salt Castile Anhydrite	775' 2239' 3855' 4510' 4585' 5405' 7110' 8390' 10145' 11285' 11645' 13090' 13285' 13620' 13840' 13950'
Morrow Clastics	
Total Depth	10200

- 3. The depths at which oil, gas, or water are expected are 4585', 5405', 7110', 11,900', 13,285', 13,620', 13,840' & 13,950'.
- 4. Casing program and cement:

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- 13 3/8" 48# H-40 ST&C @ 800' w/375 sxs Cl C + 4% Gel + 2% CaCl<sub>2</sub> + 1/4# Flocele per sx followed w/250 sxs Cl C + 2% CaCl<sub>2</sub>. Circulate cement.
- 10 3/4" 40.50# K-55, 40.50# & 45.50# S-80 ST&C @ 4530' w/900 sxs Lt + 15# salt + 1/4# Flocele per sx followed w/250 sxs Cl C + 3# salt per sx. Circulate cement.
- 7 5/8" 26.40# K-55, N-80 & S-95 & 29.70# S-95 LT&C @ 11,800' w/DV tool @ 7900'. 1st stage 800 sxs C1 H 50-50 POZ "A" w/2% Gel, 6# salt + 0.3% Halad-22A. 2nd stage - 700 sxs C1 C 50-50 POZ "A" + 2% Gel + 6# salt + 0.2% Halad-4. TOC is estimated @ 4300' if necessary to cover up Delaware zones.
- 5" 18# S-95 LT&C @ 15,200' w/300 sxs Cl H w/additives.
- 5. Circulating Medium:

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

Spud mud to 800' Brine water to 4530' Cut Brine to 11,800' KCL Polymer to 15,200'

- 6. If warranted, drill stem tests will be carried out in the Bell Canyon, Cherry Canyon, Bone Springs, Wolfcamp, Atoka and Morrow.
- Ten foot samples of cuttings will be caught from the base of the surface pipe (800') to total depth.
- Adequate electrical and resistivity logs will be run from total depth to the base of the intermediate casing at 4530'. The gamma ray will be run to the surface.
- 9. Lost circulation zones are possible from the surface to 11,645'. High pressure is expected in the Atoka formation.

APPLICATION FOR DRILLING POGO PRODUCING COMPANY NEFF 13 NO. 1 EDDY COUNTY, NEW MEXICO

Page 2

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10. Blow Out Preventors:

Surface to 800' - None 800' to 11,800 - 3000# WP 11,800' to 15,200' - 10,000# WP A typical BOP sketch is attached

11. The anticipated starting date is April 15, 1988 with completion expected by August 1, 1988.



# MULIIPOINT SURFACE USE AND OPERATION PLAN

# POGO PRODUCING COMPANY

#### NEFF 13, No. 1

# 1980' FSL & 1980' FEL SEC. 13, T-22-S, R-31-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:

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Existing roads in the vicinity of the planned well are shown on Exhibit A, attached. The well is located 36 miles Northwest of Jal, New Mexico. No additional improvement or maintenance of existing roads will be required.

### 2. PLANNED ACCESS ROADS:

Approximately 850' of new road 12' wide will be required. See Exhibit A.

### 3. LOCATION OF EXISTING WELLS:

Shown below are the dispositions of wells in a 2 mile radius of the proposed well. See Exhibit B.

Sec. 1, T-22-S, R-31-E Eddy County -	Pogo, SCL #1, TD 4562, D/A 4/7/81
Sec. 12, T-22-S, R-31-E Eddy County -	Pogo, SCL #2, TD 14928, Atoka discovery
Sec. 23, T-22-S, R-31-E Eddy County -	Texas Crude Oil Co., #1-23 Wright Federal TD 4766 D/A 4/25/62
Sec. 24, T-22-S, R-31-E Eddy County -	Getty Oil Co., #1 Getty Federal "24" TD 14935 Atoka discovery
Sec. 24, T-22-S, R-31-E Eddy County -	Cleary Petroleum (R.J. Zonne, et al), Federal #1A T/A
Sec. 25, T-22-S, R-31-E Eddy County -	Pogo, Neff Federal #1 TD 15026 Morrow Discovery comp 4/19/86
Sec. 25, T-22-S, R-31-E Eddy County -	Cleary Pit (R.J. Zonne, et al) Federal #1-B T/A
Sec. 18, T-22-S, R-32-E Lea County -	J.H. Trigg #1-18 Federal Jennings TD4896 D/A 5/7/61
Sec. 17, T-22-S, R-32-E Lea County -	Cleary Petroleum, #1-17 Federal TD 14800 Morrow Comp 7/11/75
Sec. 19, T-22-S, R-32-E Lea County -	Ralph Lowe-Bass Federal #1 TD 4802 D/A 6/9/64

### 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:

Brine and fresh water used in the drilling of the well will be purchased and trucked to the well site over existing 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 Federal pit located in the NW/4 of the SW/4 Sec. 12, T-22-S, R-31-E. The pit is 1 1/2 miles NW of the proposed drilling location. See Exhibit A.

POGO PRODUCING COMPANY NEFF 13 NO. 1 1980' FSL & 1980' FEL SEC. 13, T-22-S, R-31-E EDDY COUNTY, NEW MEXICO

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

# 11. OTHER INFORMATION:

A. Pogo Producing Company's proposed location will be situated on an aeolian mantled landform lying southwest of The Divide. Overlooking Nash Draw, the coeval surface is characterized by generally minor dune development with microrelief ranging between 0.25 and 0.40 m in height. An isolated dune field, spatially oriented on an east-west axis, cuts across the central portion of the location. Elevation is 3594 ft. Slope is 0.60°. Aspect is multiple. Water is locally scarce owing to the permeable conditions of associated soils. Nearest water occurs in the form of seeps within the Nash Draw catchment lying seven miles to the west. Areal soil individuals are universally dominated by the sand separate, being made up of sandy loams and loamy sands. Soils uniformly fall within the Typic Torripsamment subgroup/Kermit-Berino series. Cherty gravels, along with some calcareous inclusions, occur in associated soils. Depiositionally, surficial deposits are subject to aeoalian processes. The scrub, floral community is dominated by plains yucca, shinnery oak, sand sage, groundsel, poverty three awn, sandbur, sand muhly, New Mexico feathergrass and mesa dropseed.

POGO PRODUCING COMPANY NEFF 13 NO. 1 1980' FSL & 1980' FEL SEC. 13, T-22-S, R-31-E EDDY COUNTY, NEW MEXICO

Page 3

- B. Ponds and Streams None.
- C. Occupied Dwellings None.
- D. <u>Cultural Resources</u> No cultural properties were recorded during the course of the archaeological survey conducted February 25, 1988 by Dr. J. Loring Haskell.
- E. Land Use Grazing and hunting in season.
- F. <u>Surface Ownership</u> The surface in Section 13 is Federal land and the current grazing lessee is:

Mr. Kenneth Smith P.O. Box 764 Carlsbad, New Mexico 88220

#### 12. OPERATOR'S REPRESENTATIVES:

W. E. Barnes 2654 East 11th Odessa, Texas 79761 Home Phone (915) 333-5110 Office Phone (915) 682-6822

B. J. Williams 5104 Teakwood Trace Midland, Texas 79707 Home Phone (915) 694-2215 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 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 subcontractors in conformity with this plan and the terms and conditions under which it is approved.

February 26, 1988 Date

Mans B. J. Williams

Division Operations Manager Pogo Producing Company



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# EXHIBIT C

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Pogo Producing Company Neff 13 No. 1 1980' FSL & 1980' FEL Section 13, T-22-S, R-31-E