Form 3160-3 (November 1983) (for. orly 9-331C)

DEPARTMENT OF THE INTERIOR

SUBMIT IN TRI (Other instructions on

UNITED STATES reverse side)

Expires August 31, 1985

BUREAU OF LAND MANAGEMENT								NM-29233			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK								6. IF INDIAN, ALLOTTER OR TRIBE NAME			
a. TYPE OF WORK							7. UNIT AGREEMENT NAME				
DRI b. TYPE OF WELL			DEEPEN 🗌		PLU	JG BAC	Κ⊔	1. UNIT AGE	EEMENT N	AMB	
OIL TO G	ELL	OTHER		SINGLE	XX	MULTIPLE	• 🗇	S. FARM OR	LEASE NA	<u> </u>	
2. NAME OF OPERATOR		OTHER		ZONE	84	ZONE	<u> </u>	FEDERA			
		POGO PRO	DUCING COMPA	NY 🖊				9. WELL NO.			
3. ADDRESS OF OPERATOR								1			
			(10340, MID					10. FIELD AN	D POOL, (R WILDCAT	
4. LOCATION OF WELL (R. At surface	eport locat	ion clearly and	in accordance with a	ny State i	equiremen	ats.*)	,	LIVINGS.	TON RI	DGE DELAWARE	
660' FSL AND 660' FWL OF SECTION 12							11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA				
At proposed prod. zon	e			ut, M					SEC.12, T.22 S., R.31 E.		
14. DISTANCE IN MILES	NO DIRECT	ION PROM NEA	Per TOWN OF BOST O		17.					-	
14. DISTANCE IN MILES I	IND DIRECT				A17-14 A	EVICO		12. COUNTY C			
15. DISTANCE FROM PROPU	SED*	28 MILES	EAST OF CAR	LSBAD,			17 NO /	EDD'		NEW MEXICO	
LOCATION TO NEAREST PROPERTY OR LEASE L	INE. FT.		660'					HIS WELL			
(Also to nearest drig, unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION®				120 D DEPTH		40					
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.					8500'			20. ROTARY OR CABLE TOOLS			
21. ELEVATIONS (Show whe	<u> </u>						KUI		DATE WO	RK WILL STARTS	
			3577.8 GL					UPON /			
23.			PROPOSED CASING	AND CEM	ENTING	PROGRAM	Ę	scoretary			
SIZE OF HOLE				WEIGHT PER FOOT SETTING DEPTH				QUANTITY OF CEMENT			
17-1/2"	13	-3/8"	54.5#		800'		SUFF	ICIENT TO			
11"		-5/8"	24#, 32#, 28	8#	4500'			FFICIENT TO CIRCULATE			
7-7/8"	5	-1/2"	15.5# & 17	#	8500	, 1	1000	SACKS (+)	ie bac	k)	
MAY - 7 1991 O. C. D. ARTESIA, OFFICI	AND	STIMULATE		RY. PLEMEN ⁻ SKETCH	TAL DR		DATA	Y		nt ID-1 -10-91 Loc 4 AP.	
N ABOVE SPACE DESCRIBE one. If proposal is to d reventer program, if any 4. SIGNED (This space for Feder PERMIT NO.	rill or dee	pen directional	ly, give pertinent da	ta on subs	surface loc	Produc	measured		cal depth	s. Give blowout	
										601	

COAPTROVAL ASUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS -

*See Instructions On Reverse Side

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<u>.</u>

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM \$8210

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

DISTRICT III
1000 Rio Bezzos Rd., Azzec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

Operator 1 POGO PRODUCING CO. FEDERAL 12 County Range Unit Letter Section EDDY 22 SOUTH 31 EAST M NMPM Actual Footage Location of Well: 660 WEST SOUTH 660 feet from the line line and feet from the Dedicated Acreage: Producing Formation Pool Ground level Flev. 40 DELAWARE (BRUSHY CANYON) LIVINGSTON RIDGE DELAWARE 3577.8 Acres 1. Outline the acreage dedicated to the subject well by colored peacil or hackuse 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 interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? Yes If answer is "yes" type of consolidation ☐ No If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unititation, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the information rein in true and complete to the Richard L. Wright **Position** Drilling and Prod. Supt. POGO PRODUCING COMPANY April 5, 1991 SURVEYOR CERTIFICATION I hereby certify that the well location sh on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed 2-21-91 Signature & Seal of Professional Surveyor -, 3582.7 3 576.7 -660' -1 3580.B 3572.4 E IDSON 3239 1500 1000 500 1320 1650 1980 2310 2640 2000

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY WELL NO.1 FEDERAL 12

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	750'
Delaware	4450'
Bell Canyon	4500'
Cherry Canyon	5420'
Brushy Canyon	7125'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Brushy Canyon

0il

4. PROPOSED CASING AND CEMENTING PROGRAM:

13-3/8" 54.5# K-55 ST&C casing is to be set at approximately 800 feet in 17-1/2" hole. Casing to be cemented with with 500 sacks of Light cement tailed in with 200 sacks of Class "C" with 2% CaCl. Cement to circulate.

8-5/8" 24#, 28#, and 32# J-55 and S-80 ST&C casing is to be set at approximately 4500 feet in 11" hole. Casing is to be cemented with 1200 sacks of Light cement tailed in with 200 sacks of Class "C" with 1% CaCl. Cement to circulate.

5-1/2" 15.5# and 17# K-55 and N-80 LT&C casing is to be set at 8500 feet in 7-7/8" hole. Casing is to be cemented with 1000 sacks of Class H cement. Cement to tie-back.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling the 11" hole, will be either a 3000 psi working pressure double ram type preventer or a 3000 psi working pressure annular type preventer.

Blow out prevention equipment, while drilling below the 8-5/8" casing seat, will be a 3000 psi working pressure BOP stack. A BOP sketch is attached.

6. CIRCULATING MEDIUM:

Surface to 800 feet: Fresh water spud mud. Viscosity 30 to 36

as required for hole cleaning.

800 feet to 4500 feet: Brine conditioned as necessary for control

of viscosity. Weight 9.8 to 10. pH 9 to 10.

Viscosity 32 to 36.

4500 feet to T.D.: Water base drilling fluid conditioned as necessary

for control of weight, viscosity, pH and water-loss.

Weight 9 to 10. Viscosity 38-45. pH 9 to 10.

Filtrate while drilling pay zone 6 to 15.

7. AUXILIARY EQUIPMENT:

A mud logging trailer will be in use while drilling below the intermediate casing.

8. TESTING, LOGGING, AND CORING PROGRAMS:

No drill stem tests are planned.

Compensated Neutron - Litho Density Log and Phasor Induction Log/GR from total depth back to intermediate casing. Gamma Ray log will be continued back to surface.

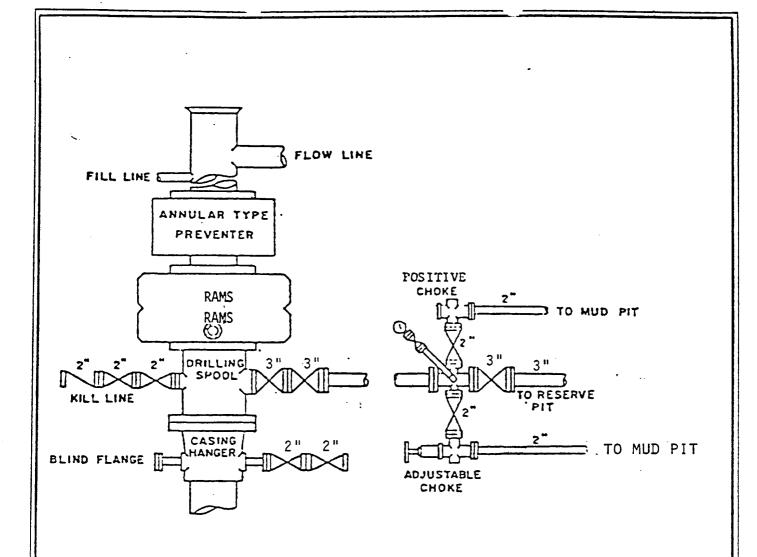
No coring is planned.

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 45 days.



BOP STACK

3000 PSI WORKING PRESSURE

SURFACE USE AND OPERATIONS PLAN

FOR

POGO PRODUCING COMPANY WELL NO.1 FEDERAL 12 660'FSL & 660'FWL SEC.12, T.22 S., R.31 E. EDDY COUNTY, NEW MEXICO

LOCATED: 28 air miles east of Carlsbad, New Mexico.

FEDERAL LEASE NUMBER: NM-29233.

LEASE ISSUED: February 1, 1977. Lease is in producing status.

ACRES IN LEASE: 1120.

RECORD LESSEE: E. R. Neff.

SURFACE OWNERSHIP: Federal.

GRAZING PERMITTEE: Kenneth Smith (505) 887-3374

P. 0. Box 764

Carlsbad, New Mexico 88220

POOL: Livingston Ridge Delaware.

POOL RULES: Statewide Rules. 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. The proposed well site can be reached by, either going south off US 62-180, or by going north off State 128. Point "A" on the plat is on 62-180 at Milepost 66.8, approximately 37 miles west of Hobbs, New Mexico, where Lea County road C-29 goes south. To go to the proposed well site from this point, exit 62-180 to the south on the paved road and go 10.5 miles to arrive at Point "C", or 12.5 miles to arrive at Point "D". The proposed well site can be reached from either point as indicated. Also see Exhibits "B" and "D".

Point "B" on the plat is on State highway 128 at Milepost 17.6, about 36 road miles west of Jal, New Mexico, where Eddy County road 798 goes north. To go to the proposed well site from this point, go north on Eddy 798 9 miles to arrive at the above mentioned Point "D".

B. Exhibit "B" is a plat showing existing pertinent roads in the vicinity of the proposed well site. Existing roads are color coded.

2. PLANNED ACCESS ROAD:

- A. <u>Length and Width</u>: The new road will be 12 feet wide and approximately 800 feet long, and is shown 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: Less than one percent.
 - D. Turnouts: None necessary.
- E. <u>Drainage Design</u>: The new road will be crowned with drainage to the side.
 - F. Culverts: None needed.
 - G. Cuts and Fills: None necessary.
 - 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. Necessary production facilities for this proposed well will be located on the well pad.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is not planned that a water well will be drilled. Water needed 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, if present, from a pit opened on site within the work area. Otherwise, caliche will be taken from an existing pit on Federal land in the $SE\frac{1}{4}SW\frac{1}{4}$ of Section 12, T.22 S., R.31 E., Eddy County, New Mexico. Caliche will be trucked to the well site over existing and proposed roads. Pit location is shown on Exhibits "B" and "D".

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 pad and pit area will be required.
 - 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 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. <u>Topography</u>: The land surface in the area is undulating and duny. Land surface in the immediate area of the well site slopes to the south. Regionally, drainage is to the southwest.
 - B. Soil: Top soil at the well site is sand.
- C. Flora and Fauna: The vegetative cover is moderate and includes mesquite, shinnery oak, sand sage, yucca, weeds, and range grasses. Wildlife in the area is that typical of semi-desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.
- D. <u>Ponds and Streams</u>: There are no rivers, lakes, ponds, or streams in the area.
- E. Residences and Other Structures: There are no occupied dwellings or other structures within a mile of the proposed well site.

- F. Archaeological, Historical, and Cultural Sites: None observed. However, 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 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.

April 4, 1991

Date:

Richard Wright

Drilling and Production Supt.

Pogo Producing Company

