

RESUBMITTAL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTNew Mexico Office  
Conservation Division, District 1  
1625 N. French Drive  
Hobbs, NM 88240FORM APPROVED  
OMB NO. 4804-0136  
Expires: February 28, 1995

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Pogo Producing Company

## 3. ADDRESS AND TELEPHONE NO.

P. O. Box 10340, Midland, TX 79702-7340 (915)685-8100

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface 330' FSL &amp; 990' FWL, Section 13

At proposed prod. zone Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approximately 30 miles East of Carlsbad New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT  
(Also to nearest drig. unit line, if any)

750'

## 16. NO. OF ACRES IN LEASE

600

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.

1000'

## 19. PROPOSED DEPTH

10,200'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3715' GR

Carlsbad Controlled Water Basin

## 22. APPROX. DATE WORK WILL START\*

When approved

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
25"	Conductor	NA	40'	Cmt to surface w/ Redi-mix
17-1/2"	H-40 13-3/8	48	1000'	1000 sks, circ cmt to surface
12-1/4"	S-80, J-55 8-5/8	32	4700'	1800 sks, circ cmt to surface
7-7/8"	N-80, J-55 5-1/2	17	10,200'	1200 sks in 2 stages TOC 3000'

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface w/ Redi-mix.
2. Drill 17-1/2" hole to 1000'. Run and set 1000' of 13-3/8" 48# H-40 ST&C csg. Cmt w/ 1000 sks CI "C" + 2% CaCl2 + 1/4# flocele/sk. Circulate cmt to surface.
3. Drill 12-1/4" hole to 4700'. Run and set 4700' of 8-5/8" 32# ST&C csg as follows: 500' of 8-5/8" 32# S-80 ST&C, 4200' of 8-5/8" 32# J-55 ST&C csg. Cmt w/ 1800 sks CI "C" + 2% CaCl2 + 1/4# flocele/sk. Circulate cmt to surface.
4. Drill 7-7/8" hole to 10,200'. Run and set 10,200' of 5-1/2" csg as follows: 3200' of 5-1/2" 17# N-80 LT&C csg, 5000' of 5-1/2" 17# J-55 LT&C, 2000' of 5-1/2" 17# N-80 LT&C csg. Cmt in two stages, set stage tool at 7000±. Cmt w/ 1200 sks CI "H" + additives. Estimate top of cmt 3000' from surface.

IN ABOVE SPACE DESCRIBE PROGRAM: If proposal is to deepen, 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

*Cathy Lamberl*

TITLE Sr. Operation Tech

DATE 03/10/03

(This space for Federal or State office use)

PERMIT NO.

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would be conditions of approval, if any.

APPROVED BY

/S/ JOE G. LARA

TITLE ACTING FIELD MANAGER

DATE

APR 28 2003

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVAL FOR 1 YEAR

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II  
P.O. Drawer 20, Artesia, NM 88211-0719

DISTRICT III  
1000 El Estero Rd., Artec, NM 87410

DISTRICT IV  
P.O. Box 2000, Santa Fe, N.M. 87504-2000

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Form C-102  
Revised February 10, 1994  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number <b>30-025-35819</b>	Pool Code <b>51683</b>	Pool Name <b>RED TANK - BONE SPRING</b>
Property Code <b>9350</b>	Property Name <b>W.B.R. FEDERAL</b>	Well Number <b>8</b>
OGRID No. <b>17891</b>	Operator Name <b>POGO PRODUCING COMPANY</b>	Elevation <b>3715'</b>

Surface Location

UL or lot No. <b>M</b>	Section <b>13</b>	Township <b>22-S</b>	Range <b>32-E</b>	Lot Idn	Feet from the <b>330</b>	North/South line <b>SOUTH</b>	Feet from the <b>990</b>	East/West line <b>WEST</b>	County <b>LEA</b>
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres <b>40</b>	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

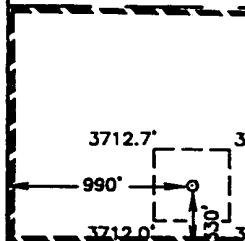
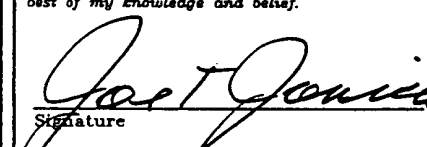

					<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.   Signature <b>Joe T. Janica</b> Printed Name Agent  Title <b>05/09/01</b> Date			
					<b>SURVEYOR CERTIFICATION</b>  I hereby certify that the well location 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 belief.  <b>MAY 02, 2001</b> Date Surveyed  Signature & Seal of Professional Surveyor <b>01-11-0516</b> Certificate No. <b>RONALD J. EDSON 3239</b> <b>GARY EDSON 12641</b>			

EXHIBIT "A"

# APPLICATION TO DRILL

POGO PRODUCING COMPANY  
WBR FEDERAL # 8  
UNIT "M" SECTION 13  
T22S-R32E LEA CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

1. Location: 330' FSL & 990' FWL SEC. 13 T22S-R32E LEA CO. NM
2. Elevation above Sea Level: 3715' GR.
3. Geologic name of surface formation: Quaternary Aeolian Deposits.
4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
5. Proposed drilling depth: 10,200'
6. Estimated tops of geological markers:

Rustler Anhydrite	900'	Cherry Canyon	6000'
Basal Anhydrite	4500'	Brushy Canyon	7000'
Delaware	4842'	Bone Spring	8730'
Ramsey Sand	4920'	1st Bone Spring Sand	9850'
7. Possible mineral bearing formations:

Delaware	Oil	Brushy Canyon	Oil
Cherry Canyon	Oil	Bone Spring	Oil
8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
25"	0-40	20"	NA	NA	NA	Conductor
17½"	0-1000'	13 3/8"	48	8-R	ST&C	H-40
12½"	0-4700'	8 5/8"	32	8-R	ST&C	J-55 S-80
7 7/8"	0-10,200'	5½"	17	8-R	LT&C	N-80 J-55

## APPLICATION TO DRILL

POGO PRODUCING COMPANY  
 WBR FEDERAL # 8  
 UNIT "M" SECTION 13  
 T22S-R32E LEA CO. NM

9. CEMENTING & SETTING DEPTH:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface	Set 1000' of 13 3/8" 48# H-40 ST&C casing. Cement with 1000 Sx. of Class "C" cement + additives circulate to surface
8 5/8"	Intermediate	Set 4700' of 8 5/8" 32# J-55 ST&C casing. Cement with 1800 Sx of Class "C" cement + 2% CaCl <sub>2</sub> + 1/4# Flocele/Sx. circulate cement to surface.
5 1/2"	Production	Set 10,200' of 5 1/2" casing as follows: 3200' of 5 1/2" 17# N-80 LT&C, 5000' of 5 1/2" 17# J-55 LT&C, 2000' of 5 1/2" 17# N-80 LT&C. Cement in two stages, DV Tool at 7000'±, cement with 1200 Sx. of Class "H" Premium Plus cement + additives, estimate top of cement 3000' from surface.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 1500 Series 5000 PSI working pressure B.O.P. consisting of an annular bag type preventor, middle blind rams and bottom pipe rams. The B.O.P. will be nipped up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each 24 hour period and the blind rams will be operated when drill pipe is out of hole on trips. Full opening stabbing valve and upper kelly cock will be utilized. Exhibit "E-1" shows a hydraulically operated closing unit and a 2" 5000 PSI choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected.

*3" CHOKE LINES/VALVES*

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-1000'	8.4-8.7	29-38	NC	Fresh water mud add paper to control seepage and use high viscosity sweeps to clean hole.
1000-4700'	10.2-10.3	29-38	NC	Brine water using high viscosity sweeps to clean hole.
4700-10,200'	8.4-8.8	29-39	NC	Fresh water using high viscosity sweeps to clean hole. water loss may be needed to run logs and/or casing, if needed use a polymer system to accomplish this

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, and casing viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

POGO PRODUCING COMPANY  
WBR FEDERAL # 8  
UNIT "M" SECTION 13  
T22S-R32E LEA CO. NM

12. Testing, Logging and Coring Program:

- A. Open hole logs: Dual Induction, SNP, LDT, Sonic, Caliper & Gamma Ray from TD to 4700'. Run Gamma Ray, Neutron from 4700' to surface.
- B. Mud logger will be put on hole at 4700'± and remain on hole to TD.
- C. No DST's or cores are planned at this time

13. Potential Hazards:

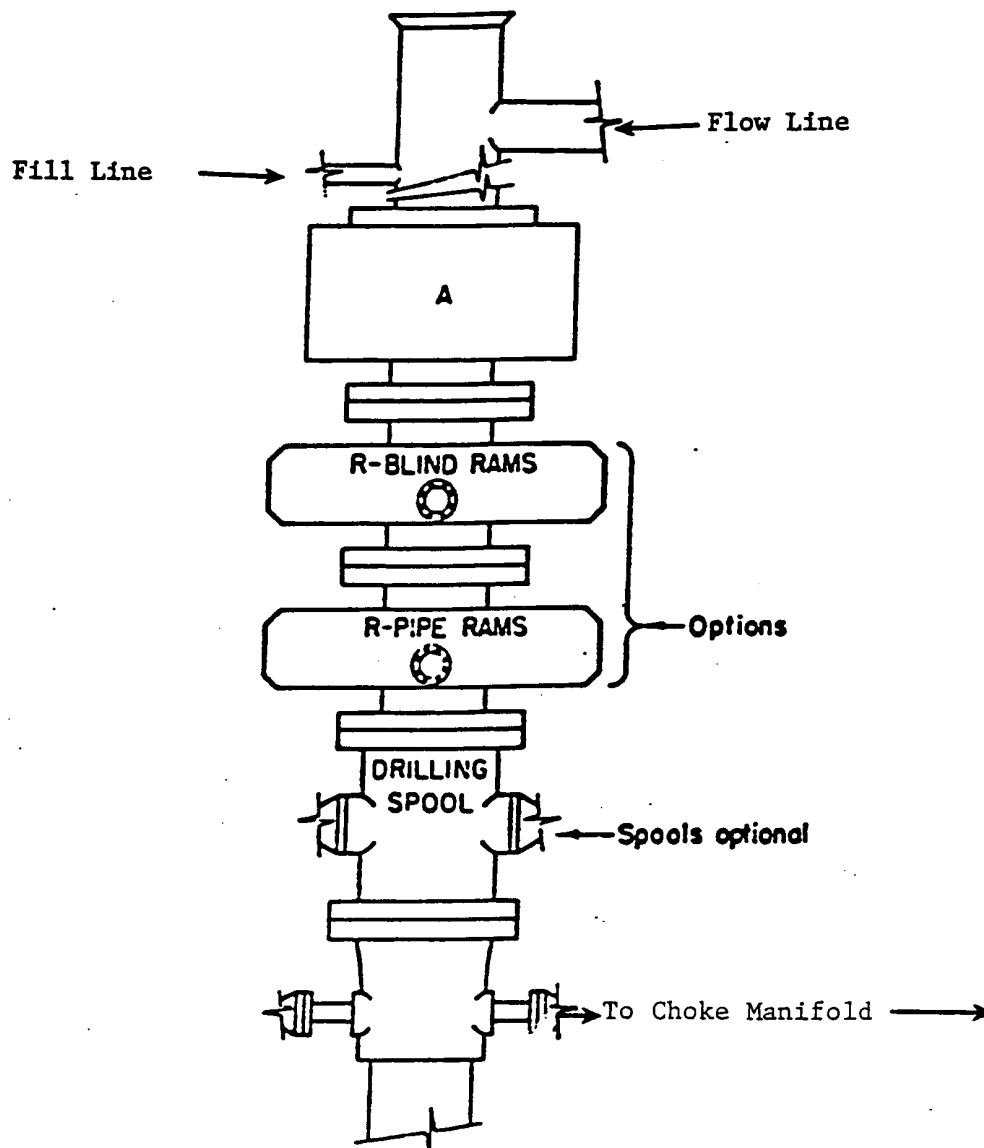
No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H<sub>2</sub>S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 5000 PSI, estimated BHT 175°.

14. Anticipated Starting Date and Duration of Operation:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 40 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15. Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The Bone Spring pay will be perforated and stimulated. The well will be swab tested and potentialized as an oil well.



# **ARRANGEMENT SRRA**

1500 Series  
5000# Working Pressure

EXHIBIT "E"  
SKETCH OF B.O.P. TO BE USED ON

POGO PRODUCING COMPANY  
WBR FEDERAL # 8  
UNIT "K" SECTION 13  
T22S-R32E LEA CO. NM