

UNITED  
DEPARTMENT OF  
BUREAU OF LAND  
APPLICATION FOR PERM.

OPER. OGRID NO. 17841  
PROPERTY NO. 1721  
POOL CODE 51683  
EFF. DATE 12/18/95  
API NO. 30-025-33233

ATE\*  
DB

FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995

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 Co.

3. ADDRESS AND TELEPHONE NO.

P.O. Box 10340, Midland, Tx 78702 (915) 682-6822

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

At surface

2310' FSL 1980' FEL Sec 33 T22S R32E

At proposed prod. zone

same

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

30 miles East of Carlsbad, N.M.

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OF LEASE LINE, FT.

(Also to deepest drilg. unit lde. if any)

1980'

17. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL DRILLING COMPLETED,

OR APPLICABLE FOR ON THIS LEASE, FT.

1320'

16. NO. OF ACRES IN LEASE

1160

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

19. PROPOSED DEPTH

9000'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DP, RT, GR, etc.)

3596' GR

22. APPROX. DATE WORK WILL START\*

as soon as approved

23.

PROPOSED CASING AND CEMENTING PROGRAM

Carlsbad Controlled Water Basin

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	J-55 13-3/8"	54.5#	800'	700 sx Circulate to surface
11"	J-55 S80 8-5/8"	32 #	4600'	1400 sx " " "
7-7/8"	J-55 S80 5-1/2"	17 #	9000'	900 sx Top of cement 3600'

1. Drill 17-1/2" hole to 800'. Run & set 800' of 13-3/8" J-55 54.5# ST&C casing. Cement with 500 sx light cement. Tail in with 200 sx class "C" + 2% CaCl. Circulate to surface.
2. Drill 11" hole to 4600'. Run and set 4600' of 8-5/8" csg. as follows: 300' of S-80 32# ST&C + 4300' of J-55 32# ST&C casing. Cement with 1200 sx light cement + 10% salt. Tail in with 200 sx. Premium cement + 1% CaCl circulate cement to surface.
3. Drill 7-7/8" hole to 9000'. Run & set 9000' of 5-1/2" csg as follows: 2000' of N-80 17# LT&C, 6000' of J-55 17# LT&C, 1000' of N-80 17#, LT&C. Cement with 500sx light cement. Tail in with 400 sx premium cement. Top of cement to be at 3600', verify with log.

Approval Subject to  
General Requirements and  
Special Stipulations  
Attached

IN ABOVE SPACE DESCRIBE PROPOSED 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

*Joe T. Janicea*

TITLE Agent

OCT 18 1995

DATE 10-17-95

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the land lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

*Conda Vega*

TITLE

DATE

DEC 1995

\*See Instructions On Reverse Side

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0712

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION  
P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-025-33233</b>	Pool Code <b>51683</b>	Pool Name <b>Red Tank Bone Spring</b>
Property Code <b>17271</b>	Property Name <b>RED TANK 33' FEDERAL</b>	Well Number <b>5</b>
OGRID No. <b>17891</b>	Operator Name <b>POCC PRODUCING COMPANY</b>	Elevation <b>3596</b>

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>J</b>	<b>33</b>	<b>22 S</b>	<b>32 E</b>		<b>2310</b>	<b>SOUTH</b>	<b>1980</b>	<b>EAST</b>	<b>LEA</b>

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>Richard L. Wright</b> Printed Name <b>Division Operations Mgr.</b> Title <b>10-17-95</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>SEPTEMBER 26, 1995</b> Date Surveyed  Signature & Seal of Professional Surveyor <b>12841</b> Num. 95-11-1454 Certificate No. JOHN W. WEST 676 RONALD J. EIDSON 3279 GARY EIDSON 1264

# APPLICATION TO DRILL

POGO Producing Company  
Red Tank Federal #5  
2310' FSL & 1980' FEL Sec.33  
T22S-R32E Lea Co. NM

In response to questions asked under Section II B of Bulletin NTL-6 the following information is provided for your consideration:

1. Location:
2. Elevation above sea level:
3. Geologic name of surface formation: Quaternary Aeolian Deposits.
4. Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
5. Proposed drilling depth: 9000'
6. Estimated tops of geological markers:

Rustler Anhydrite	850'	Brushy Canyon	7400'
Delaware Lime	4800'	Bone Springs	8800'
Cherry Canyon	6100'		
7. Possible mineral bearing formations:

Delaware	Oil
Bone Spring	Oil
8. Casing program:

HOLE SIZE	INTERVAL	OD CSG	WEIGHT	THREAD	COLLAR	GRADE	COND.
17-1/2"	0 - 800'	13-3/8"	54.5	8-R	ST&C	J-55	New
11"	800' -4600'	8-5/8"	32	8-R	ST&C	J-55, N80	New
7-7/8"	4600' -9000'	5-1/2"	17	8-%	LT&C	J-55, N80	New

APPLICATION TO DRILL  
 POGO Producing Co.  
 Red Tank Federal #5  
 2310' FSL & 1980' FEL Sec.33  
 T22S-R32E Lea Co. NM

9. Cementing and Setting Depth:

13-3/8" Surface Casing	Run and set 800' of 13-3/8" J-55 54.5 ST&C casing. Cement with 500 sx light cement. Tail in with 200 sx Class "C" + 2% CaCl. Circulate to surface.
8-5/8" Intermediate casing	Run and set 4600' of 8-5/8" J-55 & S-80 as follows: 300' of 32# S-80 ST&C, 4300' of 32# J-55 ST&C. Cement with 1200 sx of light cement + 10% salt, tail in with 200 sx premium cement + 1% CaCl. Circulate to surface.
5-1/2" Production casing	Run and set 9000' of J-55 & N-80 casing as follows: 2000' of 17# N-80 LT&C, 6000' of 17# J-55 LT&C, 1000' of 17# N-80 LT&C. Cement with 500 sx of light cement tail in with 400 sx premium. TC 3600'.

10. Pressure Control Equipment: Exhibit "E". A Blow-out Preventer (no less than 900 series 3000 psi working pressure) consisting of double ram type preventer with bag type preventer. Units will be hydraulically operated. Exhibit "E-1" Choke Manifold and Closing Unit. Blind rams on top, pipe rams on bottom to correspond with size of drill pipe in use. BOP will be nipped up on 13-3/8" casing and remain on well until casing is run and cemented. BOP will be tested as well as choke manifold. BOP will be worked at least once each day while drilling and blind ram will be worked on trips when no drill pipe is in hole. Flow sensor PVT, full opening stabbing valve and upper kelley cock will be utilized. Anticipated BHP 3600 PSI and BHT 125°

11. Proposed Mud Circulating System:

DEPTH	MUD WT.	MUD VISC.	FLUID LOSS	TYPE MUD
0-800'	8.4-8.6	30-36	N.C	Fresh water spud mud. Use paper to control seepage.
800'-4600'	9.8-10	32-36	N.C.	Brine water with Gel to control viscosity for hole cleaning. Lime for PH control 9-10 pH.
4600'-TD	9-10	38-45	6-10cc	Brine water with Gel to control viscosity PH 9&10, control with lime. Water loss thru pay section 6-10 cc.

Sufficient mud materials to maintain mud properties, meet lost circulation and weight increase requirments will be kept at wellsite at all times. In order to run casing and log well viscosity may have to be raised and water loss may have to be lowered.

## APPLICATION TO DRILL

POGO PRODUCING COMPANY  
RED TANK "33" FEDERAL # 5  
2310' FSL & 1980' FEL SEC. 33  
T22S-R32E LEA CO. NM

### 12. Testing, Logging, and Coring Program:

- A. Mud logger will be on well from 4600' to TD.
- B. DST'S will be run when shows indicate that a test is needed.
- C. Open hole logs: Dual-laterolog, Gamma Ray, Caliper, CNL -Density.
- D. No coreing is planned at this time.

### 13. Potential Hazards:

No abnormal pressures or temperature zones are expected in this well.  
( nothing abnormal encountered in offset well at this depth ) Hydrogen Sulfide gas is not anticipated, however all precautions will be observed and detection equipment will be installed. No lost circulation is expected (none reported in this area). Estimated BHP 3600 PSI estimated BHT 125°. H<sub>2</sub>S contingency plan is included in this APD.

### 14. Anticipated spud date and duration of operation:

Road and location will begin after the BUREAU OF LAND MANAGEMENT has approved this APD. Anticipated spud date is 01/20/96. Drilling is expected to take 25 to 30 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities in order to place well on production.

### 15. Other facets of operation:

After running casing cased hole correlation logs will be run from TD over the pay intervals. The Bone Spring pay will be perforated and stimulated. The well will be stimulated, swab tested and completed as an oil well

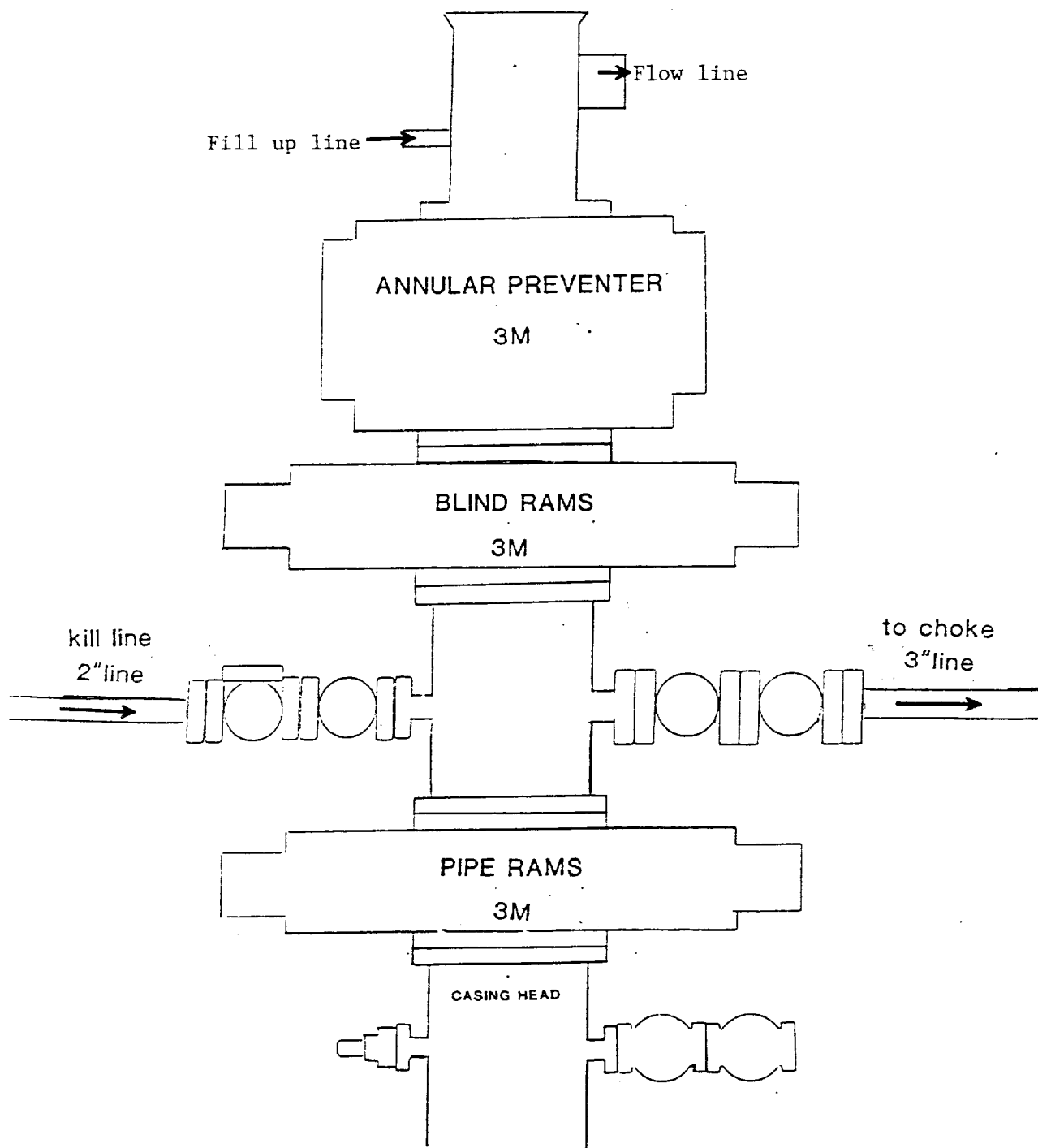


EXHIBIT "E"  
 B.O.P. SKETCH TO BE USED ON  
 POGO PRODUCING COMPANY  
 RED TANK FEDERAL #5  
 2310' FSL & 1980' FEL SEC. 32  
 T22S-R32E LEA CO. NM