

OPER. UGRID NO. 17841

PROPERTY NO. 17271

UNIT POOL CODE 51683

DEPARTMENT
BUREAU OF LAND

EFF. DATE 12/18/95

API NO. 30-025-33231

MISSION

LOCATE*

CO 88240

FORM APPROVED

OMB NO. 1004-0136

Expires: February 28, 1995

APPLICATION FOR PERMIT

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 10640, Midland, Tx 78702 (915) 682-6822

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

At surface 330' FNL & 1650' FEL Sec.33 T22S R-32E

At proposed prod. zone

Lea Co. NM

Unit B

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

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any.)

330'

16. NO. OF ACRES IN LEASE

1160

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.

1320'

19. PROPOSED DEPTH

9000'

20. ROTARY OR CABLE TOOLS

Rotary

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

3608' 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. Janica

TITLE Agent

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 subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

DATE

OCT 18 1995

*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.

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 88211-0719

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 30-025-33231	Pool Code 51683	Pool Name Red Tank Bone Spring
Property Code 17271	Property Name RED TANK 33 FEDERAL	Well Number 3
OGRID No. 17891	Operator Name POGO PRODUCING CO.	Elevation 3608

Surface Location

UL or lot No. B	Section 33	Township 22 S	Range 32 E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 1650	East/West line EAST	County LEA
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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
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Richard L. Wright Printed Name Division Operations Mgr. Title 10-17-95 Date	
	SURVEYOR CERTIFICATION 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. JUNE 12, 1995 Date Surveyed Signature Professional Surveyor NEW MEXICO 5-27-95 W.O. Num 95-140919	
	Certificate No. JOHN W. WEST 676 DONALD J. EIDSON 3239 DONALD J. EIDSON 1264	

APPLICATION TO DRILL

POGO Producing Co.
Red Tank Federal #3
330' FNL & 1650' 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 # 3
330' FNL & 1650' 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 # 3
330' FNL & 1650' 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 coring 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 EHT 125°. H₂S 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 12/01/ 95 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

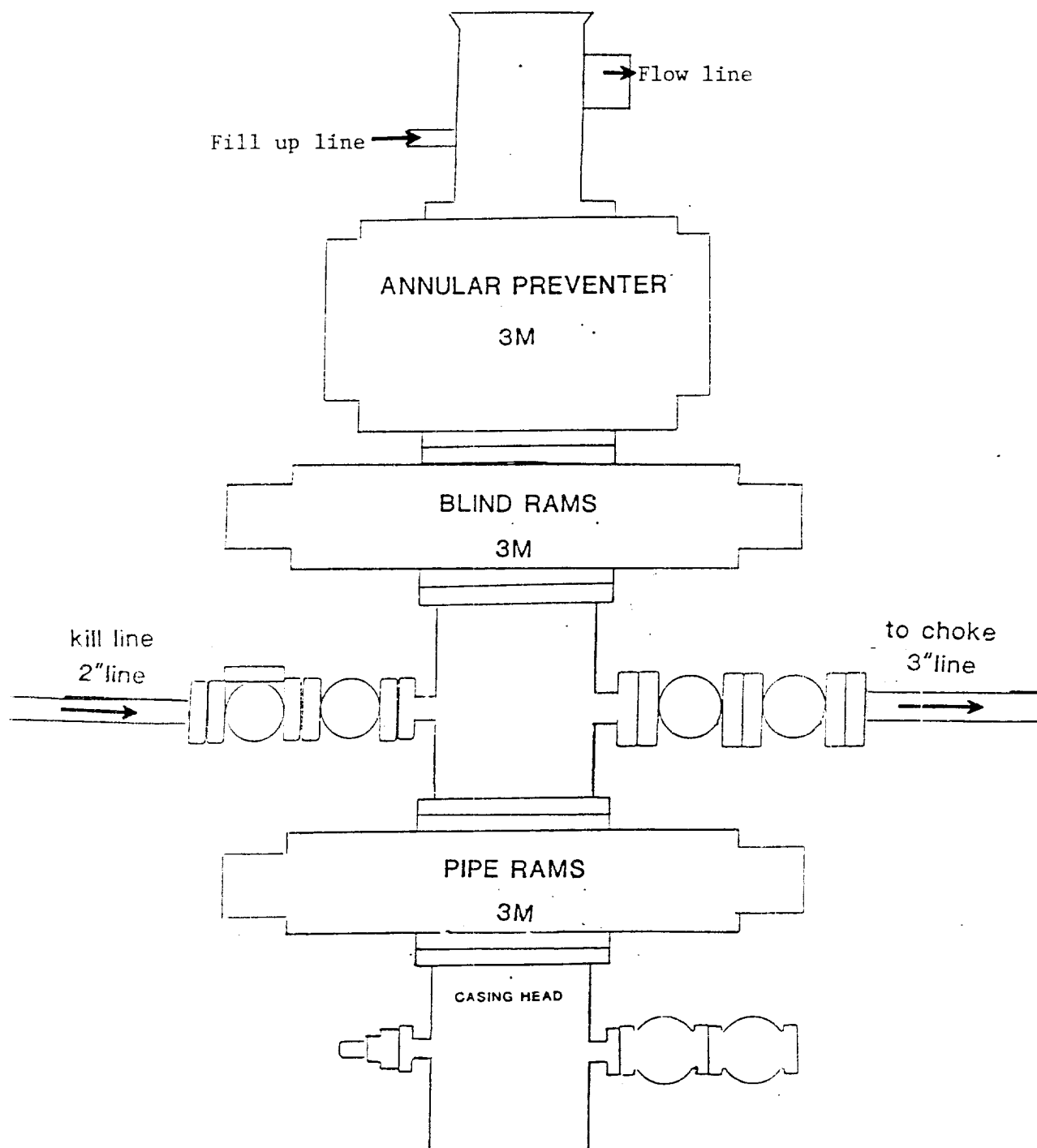


EXHIBIT "E"
 B.O.P. SKETCH TO BE USED ON
 POGO PRODUCING COMPANY
 RED TANK FEDERAL #3
 330' FNL & 1650' FEL SEC. 3E
 T22S-R32E LEA CO. NM