

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

POGO PRODUCING COMPANY

3. ADDRESS OF OPERATOR

P.O. BOX 10340, MIDLAND, TEXAS 79702

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

At surface

2110' FSL AND 990' FEL OF SECTION 23

At proposed prod. zone

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

29 AIR MILES WEST OF EUNICE, NEW MEXICO

15. DISTANCE FROM PROPOSED*

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

330'

16. NO. OF ACRES IN LEASE

80

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.

1750'

19. PROPOSED DEPTH

10,200'

20. ROTARY OR CABLE TOOLS

ROTARY

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

3721.8' GR

22. APPROX. DATE WORK WILL START*

UPON APPROVAL

23.

PROPOSED CASING AND CEMENT

CARLSBAD CONTROLLED WATER BASIN

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5#	850'	SUFFICIENT TO CIRCULATE
11"	8-5/8"	32#	4750'	SUFFICIENT TO CIRCULATE
7-7/8"	5-1/2"	17#	10,200'	TO TIE BACK TO 3800'

AFTER SETTING PRODUCTION CASING, PAY ZONE WILL BE PERFORATED
AND STIMULATED AS NECESSARY.

SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA
BOP SKETCH
SURFACE USE AND OPERATIONS PLAN

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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

Richard L. Manis

TITLE

Division Operations Mgr.

DATE

June 7, 1993

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

AREA MANAGER

APPROVED BY (ORIG. SGD.) RICHARD L. MANIS

TITLE

DATE JUL 6 - 1993

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

SEP 10 1964

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator POGO PRODUCING COMPANY			Lease RED TANK 23 FEDERAL		Well No. 2
Unit Letter I	Section 23	Township 22 SOUTH	Range 32 EAST NMPM		County LEA
Actual Footage Location of Well: 2110 feet from the South line and 990 feet from the East line					
Ground Level Elev. 3721.8	Producing Formation BONE SPRINGS		Pool UNDES. RED TANK BONE SPRINGS		Dedicated Acreage: 40 Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</p> <p>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).</p> <p>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.?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____</p> <p>If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. _____)</p> <p>No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>					
<div style="border: 1px solid black; height: 400px; position: relative;"><div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); border: 1px dashed black; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;">990'</div><div style="position: absolute; top: 10%; left: 10%; transform: rotate(-90deg); transform-origin: left top;">2110'</div><div style="position: absolute; top: 10%; left: 10%;">3730.9</div><div style="position: absolute; top: 10%; left: 20%;">3732.4</div><div style="position: absolute; top: 20%; left: 10%;">3718.2</div><div style="position: absolute; top: 20%; left: 20%;">3720.7</div></div>					OPERATOR CERTIFICATION
					<p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p>
					<p>Signature: <i>Richard L. Wright</i></p>
					<p>Printed Name Richard L. Wright</p>
					<p>Position Division Operations Mgr.</p>
					<p>Company POGO PRODUCING COMPANY</p>
					<p>Date June 9, 1993</p>
					SURVEYOR CERTIFICATION
					<p>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 knowledge and belief.</p>
					<p>Date Surveyed JUNE 7, 1993</p>
					<p>Signature & Seal of Professional Surveyor</p>
					<div style="border: 2px solid black; border-radius: 50%; padding: 10px; text-align: center;">GARY L. JONES NEW MEXICO 1977 REGISTERED PROFESSIONAL SURVEYOR</div>
					<p>Certification No. JOHN W. WEST 878 RONALD J. BLOOM 8230 1989 7977</p>
					<p>93-11-1057</p>
					<p>0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0</p>

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SUPPLEMENTAL DRILLING DATA
POGO PRODUCING COMPANY
RED TANK 23 FEDERAL WELL NO. 2

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Anhydrite	900'
Delaware Lime	4800'
Cherry Canyon	6100'
Brushy Canyon	7400'
Bone Springs	8800'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware	Oil
Bone Springs	Oil

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH		WEIGHT	GRADE	JOINT
	FROM	TO			
13-3/8"	0	850'	54.5#	J-55	STC
8-5/8"	0	4500'	32#	J-55	STC
"	4500'	4750'	32#	S-80	STC
5-1/2"	0	1000'	17#	N-80	LTC
"	1000'	6500'	17#	J-55	LTC
"	6500'	10,200'	17#	N-80	LTC

MINIMUM

DESIGN FACTORS: COLLAPSE 1.125 BURST 1.1 TENSION 1.7

13-3/8" casing to be cemented with 500 sacks of light cement tailed in with 200 sacks of Class "C" with 2% CaCl. Cement to circulate.

8-5/8" casing to be cemented with 1200 sacks of light cement with 10% salt tailed in with 200 sacks of premium cement with 1% CaCl. Cement to circulate.

5-1/2" production casing is to be cemented in three stages with staging

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collars at approximately 7500 feet and 5500 feet. First stage will 400 sacks of premium cement. Second stage will be 200 sacks of light cement tailed in with 400 sacks of premium cement. Third stage will be 250 sacks of light cement tailed in with 100 sacks of premium.

Cementing will be in two stages if hole conditions permit. Cement may have lost circulation or other additives depending on hole conditions at the time casing is run.

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 850 feet: Fresh water spud mud. Viscosity 30 to 36 as required for hole cleaning.

850 feet to 4750 feet: Brine conditioned as necessary for control of viscosity. Weight 9.8 to 10. pH 9 to 10. Viscosity 32 to 36.

4750 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.

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8. TESTING, LOGGING, AND CORING PROGRAMS:

Drill stem tests will be made when well data indicate a test is warranted.

It is planned that electric logs will include GR-CNL-Density logs and GR-DLL logs.

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES, OR HYDROGEN SULFIDE GAS:

None anticipated. The production stream on this lease has been tested specifically for hydrogen sulfide gas and results were negative. However, since it is possible that low-volume hydrogen sulfide gas may be present in permeable water zones of the Castile formation, drilling operations below the surface casing will be in accordance with the attached "HYDROGEN SULFIDE DRILLING OPERATIONS PLAN" until intermediate casing is set and cemented and this possible source of hydrogen sulfide gas is cased off.

Expected bottom hole pressure is about 3500 psi.

Expected bottom hole temperature is about 125 degrees Fahr.

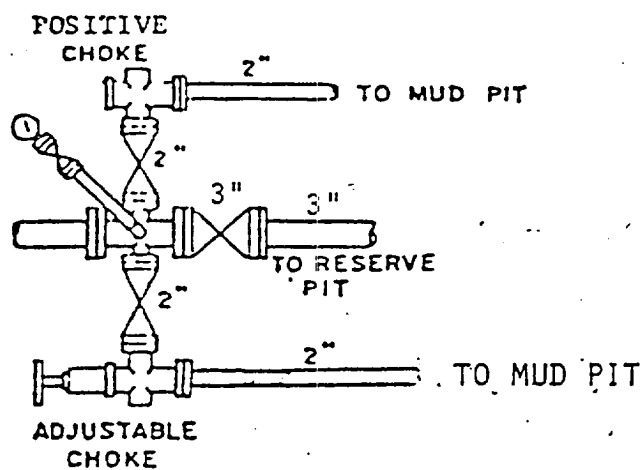
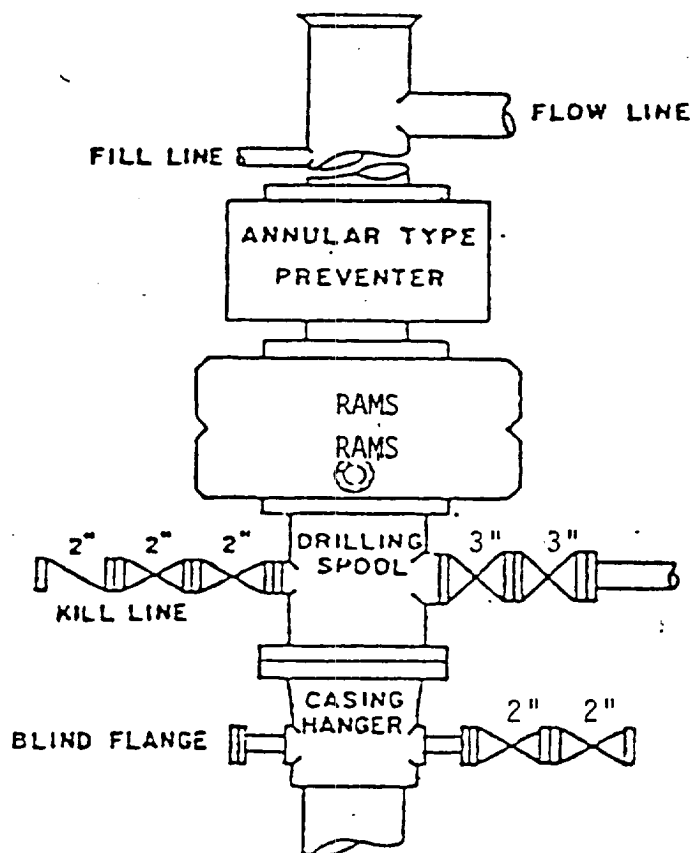
10. ANTICIPATED STARTING DATE:

It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 35 days.

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BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT

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