

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT TO PUBLIC
(Other Instructions on reverse side)
Form approved.
Bureau of Land Management, No. 1004-0136
Expires August 31, 1985

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

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

At surface

660' FSL AND 990' FEL OF SECTION 7

At proposed prod. zone

Unit P

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

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

660'

18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

660'

16. NO. OF ACRES IN LEASE

324.38

19. PROPOSED DEPTH

6900'

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

ROTARY

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

3703.2'

22. APPROX. DATE WORK WILL START*

UPON APPROVAL

23. PROPOSED CASING AND CEMENTING PROGRAM

Secretary's Potash

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4" 8 3/8	8-5/8"	24#	800'	SUFFICIENT TO CIRCULATE
7-7/8"	5-1/2"	15.5# # 17#	6900'	SUFFICIENT TO CIRCULATE

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

SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA

OPER. OGRID NO. 17891 BOP SKETCH
PROPERTY NO. 9331 SURFACE USE AND OPERATIONS PLAN
POOL CODE 39366 HYDROGEN SULFIDE DRILLING OPERATIONS PLAN
EFF. DATE 3-21-94
API NO. 30-025-32464

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. Wright
Richard L. Wright

TITLE Division Operations Mgr.

DATE December 13, 1993

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____

TITLE _____

DATE _____

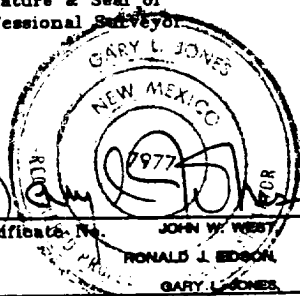
CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

*See Instructions On Reverse Side

ATTACHED

It is 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.

Operator POGO PRODUCING CO.			Lease EAST LIVINGSTON RIDGE UNIT		Well No. 6
Unit Letter P	Section 7	Township 22 SOUTH	Range 32 EAST NMPM		County LEA
Actual Footage Location of Well: 990 feet from the EAST line and 660 feet from the SOUTH line					
Ground Level Elev. 3703.2'	Producing Formation DELAWARE (CHERRY CANYON)		Pool UNDESIGNATED EAST LIVINGSTON RIDGE DELAWARE		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.? <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; bottom: 20px; right: 20px; border: 1px dashed black; padding: 5px;">3707.2' 3708.4' 990' 3696.6' 660' 3703.5'</div></div> <div style="text-align: center; margin-top: 10px;">0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0</div>					OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i> Signature: <u><i>Richard L. Wright</i></u> Printed Name: Richard L. Wright Position: Division Operations Mgr. Company: POGO PRODUCING COMPANY Date: December 10, 1993
					SURVEYOR CERTIFICATION <i>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.</i> Date Surveyed: NOVEMBER 3, 1993 Signature & Seal of Professional Surveyor: <div style="text-align: center;"> GARY L. JONES</div> Certificate No. JOHN W. WEST 676 RONALD J. EDSON 828 GARY L. JONES 797
93-11-2187					

SUPPLEMENTAL DRILLING DATA
POGO PRODUCING COMPANY
EAST LIVINGSTON RIDGE UNIT WELL NO. 6

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler	800'
Delaware	4600'
Cherry Canyon	5600'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware	Oil
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4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH		WEIGHT	GRADE	JOINT
	FROM	TO			
8-5/8"	0	800'	24#	J-55	STC
5-1/2"	0	500'	17#	J-55	STC
"	500'	6000'	15.5#	J-55	STC
"	6000'	6900'	17#	J-55	STC

MINIMUM

DESIGN FACTORS: COLLAPSE 1.125 BURST 1.1 TENSION 1.7

8-5/8" casing to be cemented with 300 sacks of light cement followed by 200 sacks of premium cement with 2% caCl . Cement to circulate.

5-1/2" casing to be cemented with approximately 700 sacks of light cement with 5# of salt per sack followed by 200 sacks of premium cement. Cement to circulate.

If, during drilling operations, need for stage cementing of casing is indicated, staging tool(s) will be run and positioned to best suit hole conditions at time casing is run.

Cement volumes may be adjusted and cement may have lost circulation and/or other additives depending on hole conditions at the time casing is run.

5. PRESSURE CONTROL EQUIPMENT:

BOP stack will be 3000 psi working pressure.

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 4600 feet: Brine conditioned as necessary for control of viscosity. Weight 9.8 to 10. pH 9 to 10. Viscosity 32 to 36.

4600 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:

Geolograph from surface to total depth.

A mud logging trailer will be in use while drilling lower part of hole.

8. TESTING, LOGGING, AND CORING PROGRAM:

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:

No abnormal pressures or temperatures are expected.

Expected bottom hole pressure is about 2800 psi.

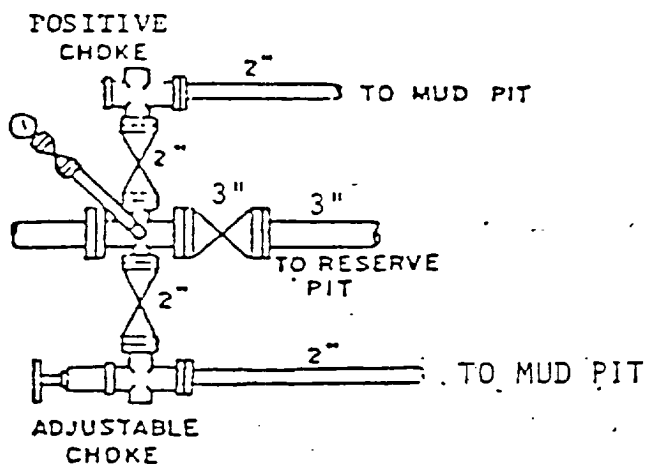
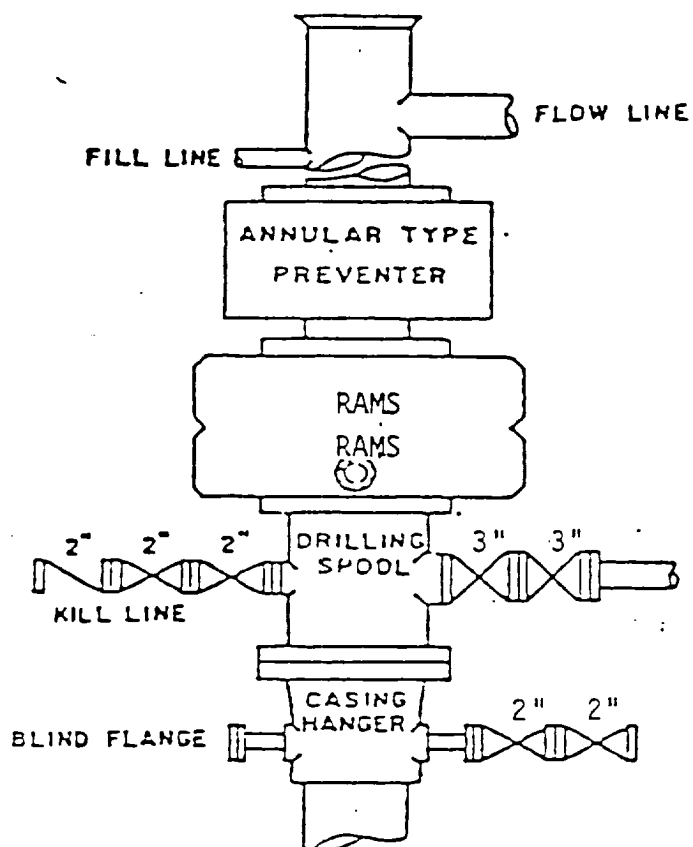
Expected bottom hole temperature is about 105 degrees Fahr.

No hydrogen sulfide gas is expected. The production stream of Pogo

Producing Company's wells in this area have been tested specifically for hydrogen sulfide gas and test 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 conducted below the surface casing seat will be in accordance with the attached "HYDROGEN SULFIDE DRILLING OPERATIONS PLAN" until total depth is reached and production casing is set and cemented.

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 30 days.



BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT

100-100000

100-100000

100-100000

100-100000

100-100000
100-100000