

**N.M. OIL CON. COMMISSION**

**P.O. BOX 1988, UNITED STATES**

**HOBBS, NEW MEXICO 88240**

**DEPARTMENT OF THE INTERIOR**

**BUREAU OF LAND MANAGEMENT**

SUBMIT IN TWO COPIES

(Other instructions on reverse side)

Form approved

Budget Bureau 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 79702

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

At surface

330' FSL AND 2310' FEL OF SECTION 25

At proposed prod. zone

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

29 MILES WEST OF EUNICE, NEW MEXICO

**15. DISTANCE FROM PROPOSED\***

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

330'

**16. NO. OF ACRES IN LEASE**

1280

**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.**

990'

**19. PROPOSED DEPTH**

10,100

**20. ROTARY OR CABLE TOOLS**

ROTARY

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

3766' GR

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

UPON APPROVAL

**23.**

**PROPOSED CASING AND CEMENTING PROGRAM**

**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#	800	SUFFICIENT TO CIRCULATE
11"	8-5/8"	32#	4600'	SUFFICIENT TO CIRCULATE
7-7/8"	5-1/2"	17#	10,100'	TO TIE BACK TO 3600'

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

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

OPER. OGRID NO. 17891

PROPERTY NO. 9316

POOL CODE 51683

EFF. DATE 7-13-94

API NO. 30-225-32581

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 prevention program, if any.

**24.**

SIGNED

Richard L. Wright  
Richard L. Wright

TITLE

Division Operations Mgr.

DATE

May 3, 1994

PERMIT NO.

APPROVAL DATE

APPROVED BY

Islink L. L. Wright

TITLE

Acting AREA MANAGER

DATE

7-8-94

CONDITIONS OF APPROVAL - IF ANY:

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

\*See Instructions On Reverse Side

DISTRICT I  
P.O. Box 1280, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 51683	Pool Name RED TANK BONE SPRINGS
Property Code 9316	Property Name COVINGTON "A" FEDERAL	Well Number 10
OGRID No. 17891	Operator Name POGO PRODUCING Co.	Elevation 3766'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	25	22 S	32 E		330	SOUTH	2310	EAST	LEA

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	Joint or Infill	Consolidation Code	Order No.
40	N		

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 Richard L. Wright Printed Name Division Operations Mgr. Title May 3, 1994 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.   Date Surveyed Signature & Seal of Professional Surveyor W.O. No. 94-11-0734
	Certificate No. JOHN W. WEST, 676 RONALD J. EIDSON, 3239 GARY L. JONES, 7977

SUPPLEMENTAL DRILLING DATA  
POGO PRODUCING COMPANY  
COVINGTON "A" FEDERAL WELL NO.10

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Anhydrite	910'
Delaware Lime	4850'
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	800'	54.5#	J-55	STC
8-5/8"	0	4300'	32#	J-55	STC
"	4300'	4600'	32#	S-80	STC
5-1/2"	0	1000'	17#	N-80	LTC
"	1000'	7000'	17#	J-55	LTC
"	7000'	10,100'	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 with approximately 700 sacks

of light cement followed by 400 sacks of premium cement. Cement to tie back to 3600 feet.

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:

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 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:

A mud logging trailer will be in use while drilling below the intermediate casing.

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 4100 psi.

Expected bottom hole temperature is about 135 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 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.

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.

RECEIVED  
JUL 19 1964  
FBI  
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Ad. 7  
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