

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 3160-3
F.B.I. FORM 3160-3
HOLDS, IN
SUBMIT IN TRIPLICATE*
(Other Instructions on reverse side)

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

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

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 COMPANY

3. ADDRESS AND TELEPHONE NO.
P.O. BOX 10340, MIDLAND, TEXAS 79702 (915-682-6822)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
330' FSL AND 330' FWL OF SECTION 13
At proposed prod. zone
Unit M

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
28 MILES WEST OF EUNICE, NEW MEXICO

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
600

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.
5000'

19. PROPOSED DEPTH
10,100'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3718' GR **Carlsbad Controlled Water Basin**

22. APPROX. DATE WORK WILL START*
UPON APPROVAL

5. LEASE DESIGNATION AND SERIAL NO.
NM-58940

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME WELL NO.
WBR FEDERAL WELL NO. 2

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT UNDES.
RED TANK BONE SPRINGS

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 13, T. 22 S., R. 32 E.

12. COUNTY OR PARISH
LEA COUNTY

13. STATE
NEW MEXICO

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE 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 200' INTO 8-5/8"

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. 17541
PROPERTY NO. 9356
POOL CODE 51653
EFF. DATE 6/21/95
API NO. 30-625-32999

Approved 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 Richard L. Wright TITLE Division Operations Mgr. DATE May 19, 1995
Richard L. Wright
(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 Joe Glara TITLE Acting DATE May 19, 1995
*See Instructions On Reverse Side

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JUN 20 1995

JOE HOBBS
OFFICE

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

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

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-32999	Pool Code 51683	Pool Name UNDES. RED TANK BONE SPRINGS
Property Code 9350	Property Name WBR FEDERAL	Well Number 2
OGRID No. 17891	Operator Name POGO PRODUCING CO.	Elevation 3718

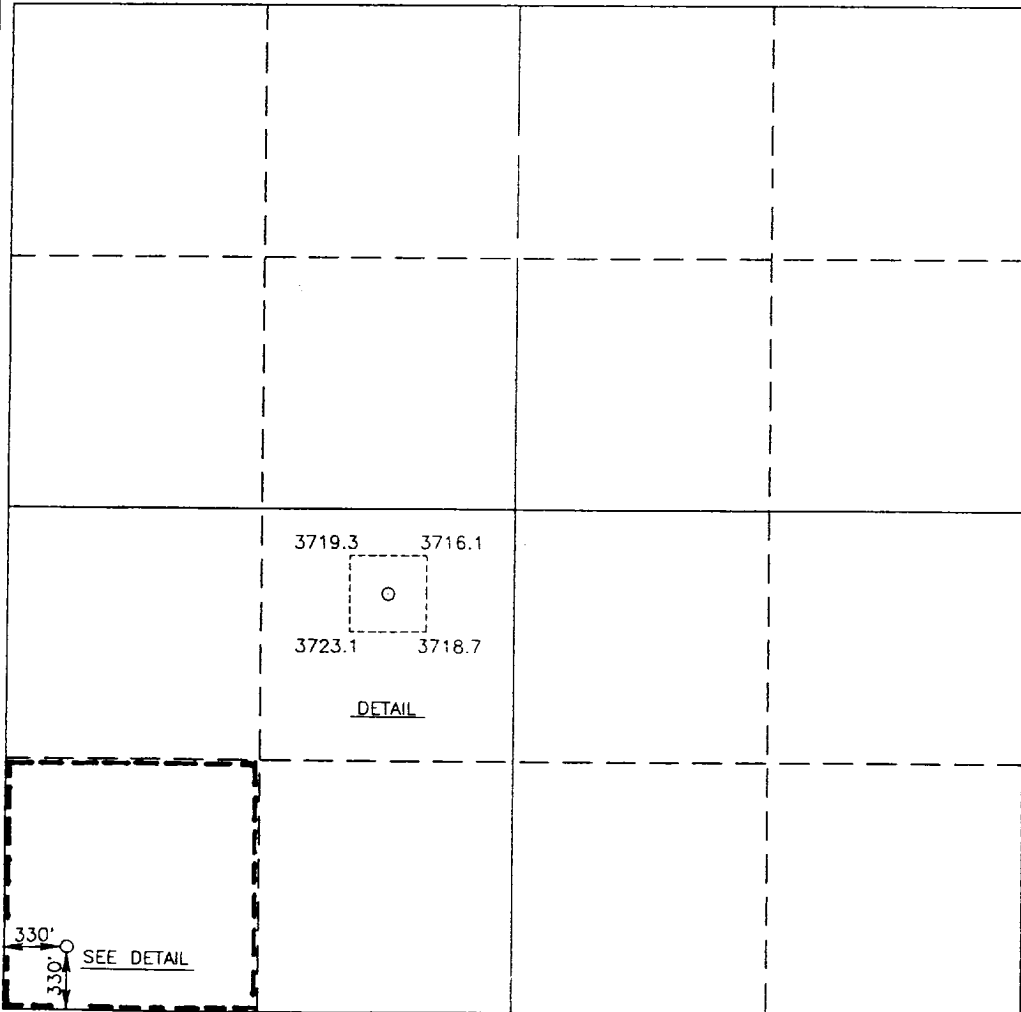
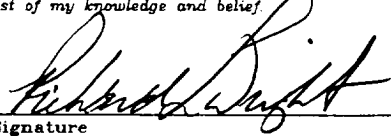
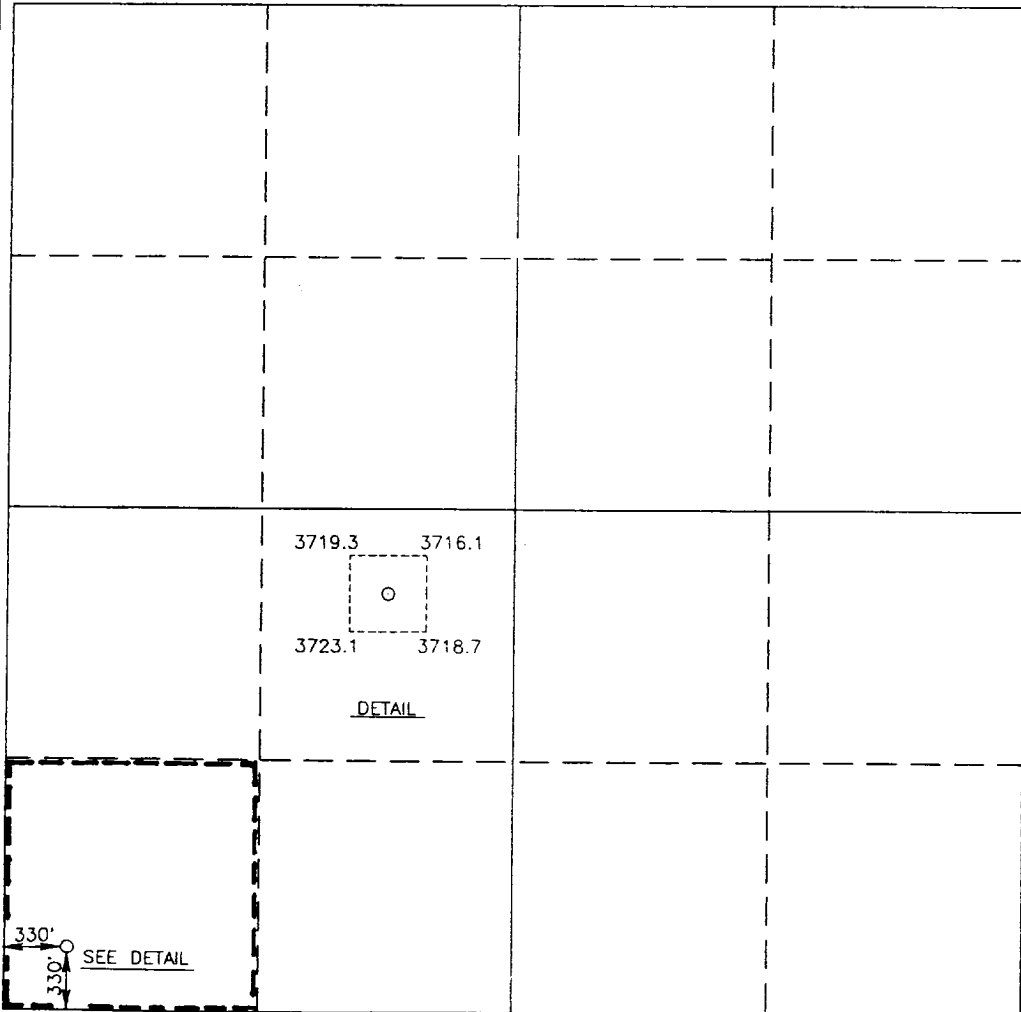
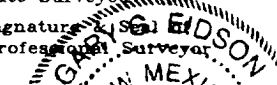
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	13	22 S	32 E		330	SOUTH	330	WEST	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 40	Joint or Infill N	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

				OPERATOR CERTIFICATION	
				<i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i>	
				 Signature Richard L. Wright Printed Name Division Operations Mgr. Title May 19, 1995 Date	
				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 belief.</i>	
				MARCH 30, 1995 Date Surveyed Signature  Professional Surveyor NEW MEXICO 4-5-95 Num. 95-11-8430 Certificate No. JOHN W. WEST 676 RONALD W. EDSON 3239 PROFESSIONAL SURVEYOR 12641	

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SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY

WBR FEDERAL WELL NO. 2

1. SURFACE FORMATION: Quaternary.
2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Anhydrite	850'
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	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 1.1 BURST 1.1 TENSION 1.2

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

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of light cement followed by 400 sacks of premium cement. Cement to tie back 200 feet into the 8-5/8" casing.

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 base fluid with gel and paper sweeps for hole cleaning.
Mud wgt 8.4 ppg - 8.6 ppg
Viscosity 28 - 32 seconds per quart.

800 feet to 4600 feet: Brine water base fluid with salt gel and paper sweeps for hole cleaning.
Mud wgt 10.0 ppg - 10.2 ppg
Viscosity 28 - 32 seconds per quart.

4600 feet to T.D.: Fresh water base fluid with gel and paper sweeps for hole cleaning.
Mud wgt 8.4 ppg - 8.6 ppg
Viscosity 28 - 32 seconds per quart.

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 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 3900 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:

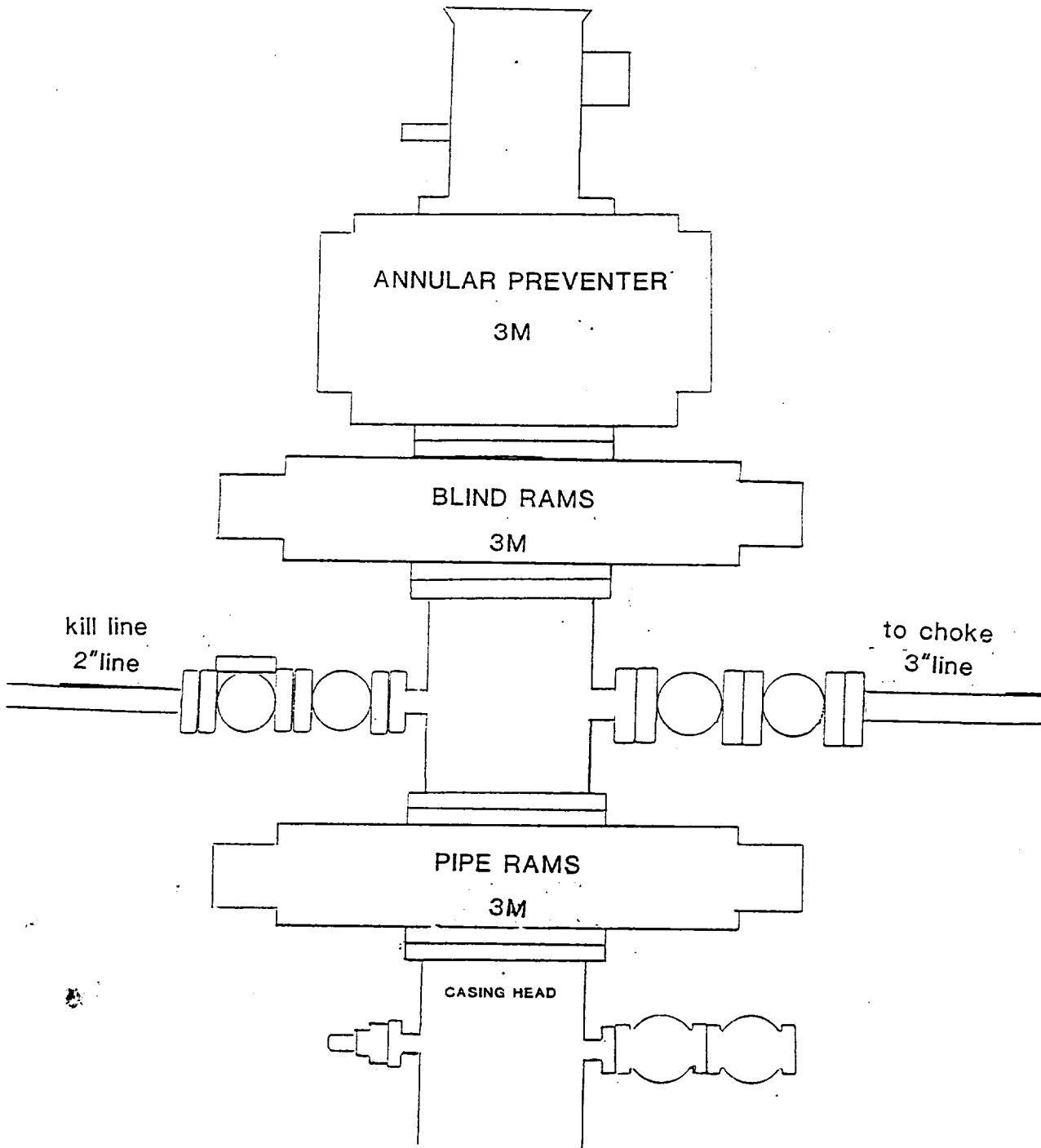
It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 30 days.

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POGO PRODUCING COMPANY
WBR FEDERAL WELL NO. 2



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