M.M. UIL COMS. COMMISSION **BOX 1980**

Form 3160-3 (November 1983) (formerly 9-331C)

UNITED STATES 8824 Other instructions on reverse side)

3D-225-32136 Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

DEPARTMENT OF THE INTERIOR

SIZE OF HOLE SIZE OF CABING WEIGHT PER POOT 17-1/2" 13-3/8" 54.5# 850' SUFFICIENT TO CIRCULATE 11" 8-5/8" 32# 4600' SUFFICIENT TO CIRCULATE 7-7/8" 5-1/2" 17# 9000' TO TIE BACK TO 3700' 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 N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive one. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout reverence program. If any.		PUREALIAE			5.	LEASE DESIGNATION AND SER	LAL NO.	
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Total A.V.	-							
AND THE AREA CALLED TO THE PROPERTY OF THE PRO				APPROVAL DATE	<u> </u>			

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

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7.73

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All Distances must be from the outer boundaries of the section

Operator	POGO PRODU	CING CO.	Lease	RED TANK	"34" FEDERA	AL Well No.
Unit Letter	Section	Township	Range			County
G	34	22 SOUTH		32 EAST	Т ммрм	LEA
Actual Footage Loc			40	00		EAST
	C IIOIM CAC	RTH line and	19 Pool	80	feet from	the EAST line Dedicated Acreage:
Ground Level Elev	Producing Fo	BONE SPRINGS	1001	WILDCAT		40 Acres
3669.7'		the subject well by colo	To linear bear		n the plat below	
						as to working interest and royalty).
unitization,	force-pooling, etc.	?			sec of all owner	s been consolidated by communitization
Yes	∐ No	If answer is "yes" t				
		nd tract descriptions wh				
No allowable w	rill be assigned t	o the well unit all intard unit, eliminating su	erests have l ch interest, l	oeen consolidate las been approve	ed (by commu ed by the Divisi	nitization, unitization, forced-poolin ion.
00000000						OPERATOR CERTIFICATION
	1		Å	1		I hereby certify the the informati
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	l		980	1		Printed Name
	1		ī	1	1	Richard L. Wright
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	i	3664.	o• 366	a q·¶		Company
	1	3004.	~ - - - 1	4	}	POGO PRODUCING COMPANY
	l I	[1980'—	-	Date
	} •	3677.	7, []	6.8' 4		June 19, 1993
	[30//.	, 30,			SURVEYOR CERTIFICATION
						I hereby certify that the well location show
 	i			1		on this plat was plotted from field notes
	i 1			i		actual surveys made by me or under
	l I			i		supervison, and that the same is true correct to the best of my knowledge
	!			i	-	belief.
	ļ			l f	ł	Date Surveyed
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						GARY E JONES, 7
0 330 660	0 990 1320 16	50 1980 2310 2640	2000	1000	500 0	93-11-1047

and the same of

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY RED TANK 34 FEDERAL WELL NO. 4

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Anhydri te	850'
Delaware Lime	4800'
Cherry Canyon	6100'
Brushy Canyon	7400'
Bone Springs	8800'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware 0il Bone Springs 0il

4. PROPOSED CASING AND CEMENTING PROGRAM:

	SETTING DEP	TH	,		
CASING SIZE	FROM	TO	WEIGHT	GRADE	JOINT
13-3/8"	0	850'	54.5#	J-55	STC
8 - 5/8"	0 4500'	4500' 4600'	32# 32#	J-55 S-80	STC STC
5-1/2"	0 1000' 6500'	1000' 6500' 9000'	17# 17# 17#	N-80 J-55 N-80	LTC LTC , 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.

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5-1/2" production casing is to be cemented in two stages with the stage tool set at approximately 6500 feet. First stage is to be 100 sacks of light cement tailed in with 350 sacks of premium cement. Second stage is to be about 600 sacks of light cement tailed in with 200 sacks of premium cement. Cement volumes to be adjusted to best suite hole conditions at time casing is run. Cement is to tie back to 3700 feet.

Cement may have lost circulation and/or other additives depending on hole conditions.

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:

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

Brine conditioned as necessary for control 850 feet to 4600 feet:

of viscosity. Weight 9.8 to 10. pH 9 to 10.

Viscosity 32 to 36.

Water base drilling fluid conditioned as necessary 4600 feet to T.D.:

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:

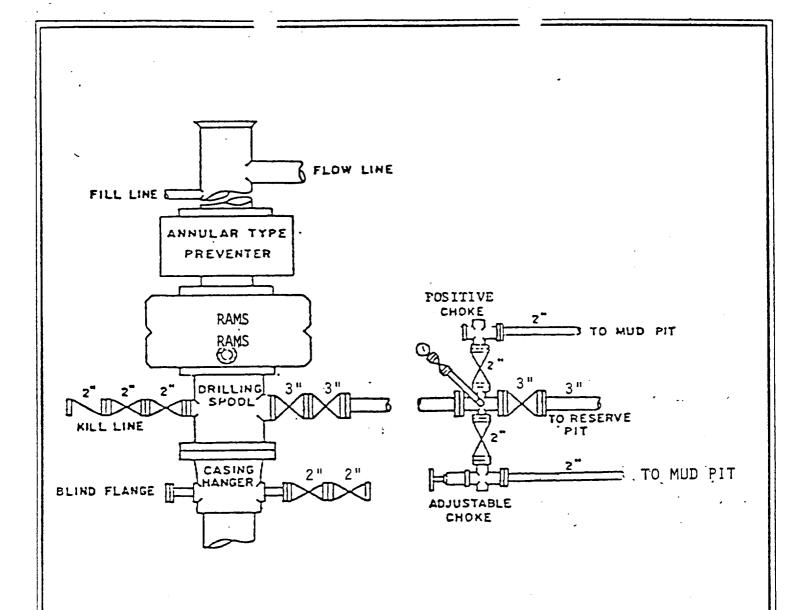
None anticipated. The production stream of wells in this immediate area have been tested specifically for hydrogen sulfide gas and test results were negative. However, since it is possible that low-volume hydrogen sulfide gas may be present in permeable water zones of the Castile formation, drilling operations below the surface casing seat 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.



. BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT

76-87-8

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