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

.u. oil coas. commission 7.0. BOX 1. .0

OBBS, NEW MEXICO 88240 SUBMIT IN TRIFLICATE
UNITED STATES

DEPARTMENT OF THE INTERIOR AP

SUBMIT IN TRIFLICATE.

Form approved. Budget Bureau No. 1004-0136

	Expires August 31, 1985)
5.	LEASE DESIGNATION AND SERIAL NO.	_

	BUKEAU C	F LAND MANAGEM	'=''' \`\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\	(ひろえろ	NM-77059
APPLICATION	N FOR PERMIT	TO DRILL, DEE	PEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
A. TYPE OF WORK Re-En	try 🗓	DEEPEN [PLUG B	ACK 🗌	7. UNIT AGREEMENT NAME
	AS OTHER	ď.	SINGLE X HUL ZONE X	TIPLE _	E. FARM OR LEASE NAME
. NAME OF OPERATOR					Proximity "31" Federal
POGO Produ	ucing Company				9. WELL NO.
	10340, Midland, Te	vac 70702			#4 10. FIELD AND PAOL, OR WILDCAT
LOCATION OF WELL (R		nd in accordance with an	y State requirements.*)		Undes. East Livingston Ridge
At NUTLACE 660' FN	L & 2085 FEL of	Sec. 31, T-22S, R-	32E		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
At proposed prod. 2on					AND SURVEY OR AREA
	Same				Section 31, T-22s, R-32E
	es east of ca	AREST TOWN OR POST OF	ric r •		12. COUNTY OR PARISH 13. STATE
D. DISTANCE PROM PROPU			NO. OF ACRES IN LEASE	17 NO	Lea County New Mexico
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to Degrest drig 3. DISTANCE FROM PROPE	INE, FT. ; unit line, if any)	660'	630	тот	HIS WELL 40
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING, COMPLETED,	None 19.	6800'	20. ROTA	ROTARY
. ELEVATIONS (Show whe		NUIE	0000	1	22. APPROX. DATE WORK WILL START*
3527' Grou	nd Level	Carisbad	I Controlled Water	Basin	Upon Approval of this Applicat
		PROPOSED CASING A	ND CEMENTING PROGE	RAM	_
BIZE OF HOLE	SIZE OF CABING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
12 ½"	8 5/8"	24#	368'	_,	Neat - Circulated
12 ½" 7 7/8" We propose	8 5/8" 5½" to drill out plu	24# 15.5# gs at: 4700', 1400	368' 6800' ', 800', 430' and	800 sx 15 sx at s	Neat - Circulated 2005x(TAIL) urface. We will then drill
12 ½" 7 7/8" We propose a new 7 7/6 and a -8cc 378 test is	8 5/8" 5½" to drill out pluge 8" hole from 4777 to -20cc water losuccessful, 5½" of successful, 5½" of suc	24# 15.5# gs at: 4700', 1400' to 6800' using geoss. At TD, a DST w	368! 6800' ', 800', 430' and cell based mud to car will more than like to 6800' and cement	800 sx 15 sx at s rry a 10.5 ely be run nted to t	Neat - Circulated 2005 x (TAIL) urface. We will then drill to 10.8 weight, 32-36 vis to test Delaware formation. ie back into surface casing.
We propose a new 7 7/8" We propose a new 7 7/8 and a -8cc The test is We state the state of t	8 5/8" 5½" to drill out plue 8" hole from 4777 to -20cc water le successful, 5½" e sing has already b PROPOBED PROGRAM: If rill or deepen direction	gs at: 4700', 1400' to 6800' using geoss. At TD, a DST wasing will be run een set and cementate and cementate according to a control of the c	368' 6800' ', 800', 430' and cell based mud to car will more than like to 6800' and cemer ed with cement circ and plug back give data on on subsurface locations Agent	800 sx 15 sx at s rry a 10.5 ely be run nted to t culated to	Neat - Circulated 2005x(TAIL) urface. We will then drill to 10.8 weight, 32-36 vis to test Delaware formation. ie back into surface casing. surface
We propose a new 7 7/8" We propose a new 7 7/8 and a -8cc Rest is 8:5/8" cas ABOVE SPACE DESCRIBE OF THE PROPOSE IS to diventer program. If any. SIGNED	8 5/8" 5½" to drill out plue 8" hole from 4777 to -20cc water le successful, 5½" e sing has already b PROPOBED PROGRAM: If rill or deepen direction	gs at: 4700', 1400' to 6800' using geoss. At TD, a DST vecasing will be run een set and cements and cements and cements are comparable to geographical proposal is to deepen or ally, give perfinent data	368! 6800' ', 800', 430' and cell based mud to car will more than like to 6800' and cement ed with cement circle and plug back, give data on on subsurface locations	15 sx at s rry a 10.5 ely be run nted to t culated to	Neat - Circulated 2005 x (TAIL) urface. We will then drill to 10.8 weight, 32-36 vis to test Delaware formation. ie back into surface casing. surface surface lunc 14 1003

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION 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

perator				Lease			i	Well No.	
.,	POGO PRODUCIN	G COMPANY		PR	OXIMITY "31"	FEDERAL		4	
Init Letter	Section	Township		Range			County		
8	31	22 50	UTH		32 EAST	NMPM		<u>LEA</u>	
ctual Footage Lo	ocation of Well:							-	
	eet nom the	RTH line and		2085		feet from	the EAS	line Dedicated Acres	
round Level Ele	5x 1			Pool		uth	1 1/100	40	•
3527.2					iciinteu En				Acres
1. Outline the	acreage dedicated to	the subject well	by colored pe	encu or hace	ure marks on u	ie piat below.	•		
2. If more than	n one lease is dedic	ated to the well.	outline each	and identify	the ownership t	hereof (both	as to workin	g interest and r	oyaity).
3 If more than	n one lease of differ	rent ownership is	dedicated to	the well, ha	we the interest	of all owners	been consol	idated by comm	unitization.
	force-pooling, etc.?								
Yes	☐ No	If answer is	•						
If answer is "n	no" list of owners as	nd tract descripti	ons which h	ave actually	been consolidat	ed. (Use reve	erse side of		
this form neces	will be assigned to	the well unit	all interests	have been	consolidated (by commun	itization, ur	nitization, force	d-pooling,
otherwise) or	until a non-standa	rd unit, eliminat	ing such in	terest, has	been approved l	y the Divisi	on.		
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SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY PROXIMITY "31" FEDERAL WELL No. 4

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite 800'
Delaware Lime 4580'
Cherry Canyon 5600'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONE:

Delaware

Oil

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETT FROM	ING DEPTH I TO	WEIGHT	GRADE	TMIOL
* 8 5/8" 5 1/2"	0	368' 6800'	24# 15.5# & 17#	K-55 K-55	STC LTC
5 172	J	0000	10.0π & 11π	R-55	LIC

MINIMUM DESIGN FACTORS: Collapse 1.125 Burst 1.1 Tension 1.7

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling the 12 1/4" hole, and 7 7/8" hole will be either a 3000 psi working pressure double ram type or a 3000 psi working pressure annular type preventer.

^{*8 5/8&}quot; casing is set at 368' in 12 1/4" hole. Casing cemented with 250 sx of Class "C". Cement circulated.

^{5 1/2&}quot; casing is to be set at 6800' in 7 7/8" hole. Casing is to be cemented with 800 sacks of Class "H" cement tailed in with 200 sx Class "C". Cement to tie back to 8 5/8" casing.

6. CIRCULATING MEDIUM:

Surface to 4700 feet:

Brine Water. Weight 9.9 - 10.0 ppg.

4700 feet to T.D.:

Water based drilling fluid conditioned as necessary for control of weight, viscosity, ph and water-loss. Weight 9 to 10. Visocity

38 - 45. ph 9-10. Filtrate while drilling pay zone 6-15.

7. AUXILIARY EQUIPMENT.

A mudlogging trailer will be used while drilling in new hole from 4700 feet to 6800 feet.

8. TESTING LOGGING, AND CORING PROGRAMS:

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

9. ABNORMAL PRESSURES. TEMPERTURES, OR HYDROGEN SULFIFE GAS:

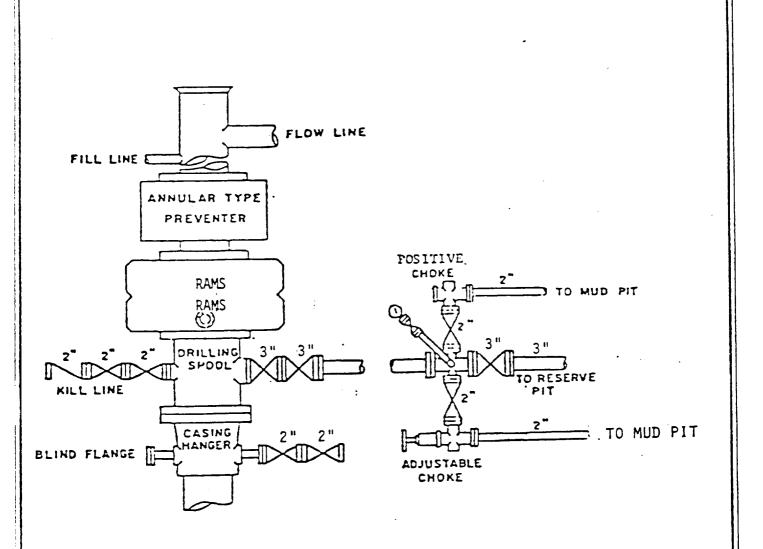
None anticipated.

Expected bottom hole pressure is approximately 3400 psi.

Expected bottom hole temperture is approximately 1200 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 45 days.



BOP STACK

3000 PSI WORKING PRESSURE