Form 3160-3 (November 1983) (iormerly 9-331C)		TED STATE T OF THE	N.M. OIL CONSTICO 30. BOX 1980 Per Instr 101250 NEW MEXIN	MUSSIC 0'8824	N DU-UAS- Form approved. Budget Bureau Expires August 5. LEASE DESIGNATION	No. 1004-0136 31, 1985
		LAND MANA			NM-7705	
	ION FOR PERMIT	TO DRILL,	DEEPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTE	
<ul><li>1a. TYPE OF WORK</li><li>b. TYPE OF WELL</li></ul>	DRILL	DEEPEN	D PLUG BA	.ск 🗆	7. UNIT AGREEMENT N	AMB
OIL WELL 2 2. NAME OF OPERAT	CAS WELL OTHER OR	SINGLE X MULTIPLE DONE			6. FARM OR LEASE NAME Proximity "31" Federal	
POOD P 3. ADDRESS OF OPER	roducing Conpany				9. WELL NO. 1	
4. LOCATION OF WEL	ox 10340, Midland, Tex		th any State requirements.*)		10. FIELD AND POOL, O	BURN Riche (Del
	1980' FNL & 660' FWL o	•	-		11. SEC., T., R., M., OE BLE. AND SUBVEY OB AREA	
At proposed proc	LES AND DIBECTION FROM NEA	Unit			Section 31, T	
30 mil	es east of Carlsbad, N				Lea County	N.M.
15. DISTANCE FROM LOCATION TO NE PROPERTY OR LE (Also to neares	AREST	660'	16. NO. OF ACRES IN LEASE 630		f acees assigned is well 40	
TO NEAREST WE	FROPOSED LOCATION <sup>®</sup> LL, drilling, completed, n this lease, ft.	7,000'	19. PROPOSED DEPTH 8600	20. ROTAR	T OR CABLE TOULS	
21. ELEVATIONS (Show	v whether DF, RT, GR, etc.) ' Ground Level	·····	d Controlled Water Bas	111	22. APPROX. DATE WOR	of application
23.		PROPOSED CAS	ING AND CEMENTING PROGRA	\M	<u> </u>	
SIZE OF HOLE	BIZE OF CABING	WEIGHT PER P	OOT SETTING DEPTH	1	QUANTITE OF CEMEN	<b>r</b>
172"	13 3/8"	.54.5#	850'	- Siffic	cient to Circulat	
11"	8 5/8"	32#	4500'		cient to Circulat	
7 7/8"	5 1/2"	15.5# & 1	7# 8600	1200 :		· · · · · · · · · · · · · · · · · · ·
	After setting and stimulate See attached :	d as necessary for: Supple BOP Ska	rental Drilling Data etch	_	d <u>ta ca</u>	
		Surface	e Use and Operations Pla	n		(7) (7) (2)
N ABOVE SPACE DESC onc. If proposal is reconfer program, i	to drill or deepen directiona	proposal is to deep lly, give pertinent	ven or plug back, give data on p data on subsurface locations a:	resent produc nd measured	tive sone and proposed and true vertical depths	new productive . Give blowout

BIGNED Jum h. i. fut h Dares M.C. Ritchie, J.	TITLE	Agent	July 28, 1993
(This space for Federal or State office use)			
PERMIT NO.	TITI. <b>E</b>	APPROVAL DATE	DATE DCT 1 2 1993
Approval Subject to Concret Requirements and			

See Instructions On Reverse Side Title 18 U.S.C. Section 1001, makes it 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.

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

5

State of New Mexico Er \_y, Minerals and Natural Resources pepartment

Form C-102 Revised 1-1-89

OIL	CONSERVATION	DIVISION
		~****

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator			Lease				
	POGO PROD	DUCING CO.		PROXIMITY "31"	FEDERAL	Well No.	
Unit Letter	Section	Township	Range			County	<u> </u>
E Actual Footogo I	31	22 SOU	ТН	32 EAST	NMPM	LEA	
Actual Footage Los 1980					n		
Ground Level Elev		NORTH line and	66	iO	feet from th	e WEST line	
3500.9'	Delaw		Pool	Wilder	2+	Dedicated Acreag	
				ast Livingston Ri	dge (Del)	40	Acres
i. outime the a	creage dedicated	to the subject well by	colored pencil or h	achure marks on the p	olat below.		
<ol> <li>If more than</li> <li>If more than unitization, for</li> </ol>	one lease is ded one lease of dif orce-pooling, etc	licated to the well, ou ferent ownership is de c.?	tline each and iden	tify the ownership there have the interest of a	eof (both as all owners be	to working interest and roj een consolidated by commun	valty). Litization,
Yes Yes	□ No	If answer is "ye	s" type of consolid	ation			
If answer is "no" this form necess No ollowable	" list of owners ary.	and tract description	a which have actua	lly been consolidated.	(Use reverse	side of ·	
otherwise) or un	ill be assigned atil a non-stand	to the well unit all lard unit, eliminating	interests have be such interest, ha	en consolidated (by a s been approved by th	communitiz	ation, unitization, forced	-pooling,
I							
I Ī	İ			1		OPERATOR CERTIFICA	
	i			1		I hereby certify the the is	nformation
	1			1	best	tained herein is true and comp ; of my knowledge and belief,	lete to the
	1					hun M.C. MiH	4h
	1			ł	Sig	nature	~ <i>1/</i> -
-1980					Pri	Janes M.C. Ritchie, Jr	
				1		Agent	
	I			+	Pos	ition	
3503.7'	3505.1			1	Con	pop Producing Conpen	¥
- 660						July 27, 1993	
3498.9				i	Date		
3498.9	3498.8'						
				1	S	URVEYOR CERTIFICAT	ION
				1	I her	eby certify that the well location	m shown
	1			1	actua	nis plat was plotted from field I surveys made by me or a	notes of
	1			1	supe	rvison, and that the same is	true and
	I			1	COTTO Delief.	ict to the best of my knowl	edge and
				l	Date	Surveyed	
	···· ····			1		JUNE 15, 1993	
				+ 	- Prof	ature & Seal of essional Surveyor	
	1			s 			
	1					CARY L ABAC	
	į		ļ		J.	( letter )	
	Ì		1		Caro	sicate No. VEHN VANUT.	676
						ROWLD & EDITON.	3239
330 660 9	90 1320 1650	1980 2310 2640	2000 1500	1000 500		PARTI- WAR	7977
			· · · ·		l	TILIAN UTAN	]

# SUPPLEMENTAL DRILLING DATA

## POGO PRODUCING COMPANY PROXIMITY "31" FEDERAL WELL NO. 1

1. <u>SURFACE FORMATION:</u> Quaternary.

#### 2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	800'
Delaware Lime	4600'
Cherry Canyon	5600'
Brushy Canyon	7300'

#### 3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONE:

Delaware Oil

### 4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE 13 3/8" 8 5/8"	<u>SETTIN</u> FROM 0 1000' 2200'	<u>NG DEPTH</u> <u>TO</u> 850' 1000' 2200' 4500'	<u>WEIGHT</u> 54.5# 32# 24# 32#	<u>GRADE</u> J-55 J-55 J-55 J-55	JOINT STC STC STC STC
5 1/2"	0	1000'	17#	J-55	LTC
	1000'	6000'	15.5#	J-55	LTC
	6000'	8600'	17#	N-80	LTC

MINIMUM DESIGN FACTORS: Collapse 1.125 Burst 1.1 Tension 1.7

13 3/8" casing is to be set at approximately 850' in 17-1/2" hole. Casing to be cemented with 500 sacks of Light cement talked in with 200 sacks of Class "C". Cement to circulate.

8 5/8" casing is to be set at approximately 4500' in 11" hole. Casing is to be cemented with 1200 sacks of Light cement tailed in with 200 sacks of Class "C". Cement to circulate.

5 1/2" casing is to be set at 8600' in 7 7/8" hole. Casing is to be cemented with 600 sacks of Class "H" cement tailed in with 700 sx Class "C". Cement to the back to 8 5/8" casing.

### 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.

#### 6. CIRCULATING MEDIUM:

Surface to 850 feet:	Fresh water spud mud. Viscosity 30 to 36 as required for hole cleaning.
850 feet to 4500 feet:	Brine conditioned as necessary for control of viscosity. Weight 9.8 to 10.0. PH 9 to 10. Viscosity 32 to 36.
4500 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 below Intermediate casing.

# 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 ans GR-DLL logs.

No coring is planned.

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

None anticipated. Expected bottom hole pressure is approximately 3700 psi. Expected bottom hole temperture is approximately 130 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 30 days.

