Form 3160-3 (Jrly 1992)		TED STATE	- Feic S	UA) I SUBMIT IN (Other instr reverse	uctions on	OMB NO. 1004-0136		
	DEPARTMEN		-			Expires: February 28, 1995		
		F LAND MANA					XO.	
	ICATION FOR P			· 		NM-42814 6. IF INDIAN, ALLOTTEN OR TRIBE NA	ME	
AFFL 14. TYPE OF WORK	ICATION FUR P		UNILI	UN DEEPEN				
D. TTPE OF WELL		DEEPEN	_			7. UNIT AGREEMENT NAME		
WELL X	VELL OTHER			NGLE NULTI		8. PARM OR LEASE NAME, WELL NO.		
. NAME OF OPERATOR						Federal 31 TL		
ADDRESS AND TELEPHONE NO	roducing Compan	······			· ·	2-30-025-3	316	
	x 10340, Midlan	d, Texas 79	702	tete populatements #)		10. FIELD AND POOL, OR WILDCAT	_ 1	
At surface	FNL & 1880'		-	-		SE Livingston Ridge (Dela 11. SBC., T., R., M., OR BLE.		
		FEL OI SECU	101 3	1		AND BURVEY OR AREA		
At proposed prod. 20 Same	De			Ini+R		Sec. 31, T-21S, R-32E	!	
4. DISTANCE IN MILES	AND DIRECTION FROM NE	REST TOWN OR POS	T OFFICE	•		12. COUNTY OR PARISE 18. STATE		
	niles east of C	arlsbad, N.	Μ.			Lea Co. N.M.		
D. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE (Also to dearest dr)	T LIN E, FT .	330'	16. NO.	OF ACBES IN LEASE 320	17. NO. 0 TO TH	F ACRES ABSIGNED HIS WELL 40		
5. DISTANCE FROM PRO TO NEAREST WELL, I	OSED LOCATION® RILLING, COMPLETED,	12201	19. PRO	POSED DEPTH	20. BOTA	RT OR CABLE TOOLS		
OR APPLIED FOR, ON TE		1320'		8700'		ROTATY		
3684	ether DF, RT, GR, etc.) ,0' Ground Leve.	1				Upon Approval	RT•	
3.		PROPOSED CAS		CEMENTING PROGRA CARLSIA BETTING DEPTH	þ cont	NOLLED WATER BAS	IN.	
17-1/2"	ORADE, SIZE OF CASING	54.50#		850'	700			
12-1/4"	8-5/8"	24.32#		4500'	-	00 sx (circ)		
7-7/8"	5-1/2"	· /		N80 8800'	-	00 sx (4300')		
ار در این در به می اور معالمات شدن به تودید رو	POTASH	1	1	R-111-P POT	ADDE			
The operat Springs fo	or proposes to or oil. Specific	drill to a c programs a	depti are oi	n sufficient t atlined in the	o test follow	the Delaware and Bone ing attachments:		
DRILLING F	ROGRAM					5.000 e 2019 2017		
SURFACE US	E AND OPERATING	F PLAN						
	- ROAD MAP							
	- EXISTING WELL			APPROVAE SL	BJECT TO			
	- DRILLING RIG	LAYOUT DIAG	JRAM	GENERAL REC	UIREMEN	TS AND THE S		
	- TOPO MAP - 3M BOP EQUIPN	11.15.17.11		SPECIAL STIP				
EVUIDII E	- JN BUP EQUIPT	12411		ATTACHED		e and a second sec		
ABOVE SPACE DESCRIB	E PROPOSED PROGRAM: If nent data on subsurface locatio	proposal is to deepen, ns and measured and tr	give data c ue vertical	n present productive zone depths. Give blowout preve	and proposed nter program, i	new productive zone. If proposal is to dri if any.	ll or	
· · · · · · · · · · · · · · · · · · ·	, 0			- • •				
BIGNED	. m. c. Kott	·	L E	Agent		DATE01/15/97		
(This space for Fede	ral or State office use)	0						
-								
PERMIT NO				PPROVAL DATE				

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Sturilles	J Lucino	me Acting	CERTE LIVELTON	DATE
			N N. I	

*See Instructions On Revense Side

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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

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-1 --1 DISTRICT I P.O. Box 1980, Hobbs, NN 88240

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

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	POGO PRODUCING CO.			Lease FEDERAI_ "31"			Well No. 2
Unit Letter	Section Township		Range				
B	31	21 SOUTH	manife.	32 EAST	2020024	County	LEA
Actual Footage Loc		.1 27 300111	1		NMPM	1	
330 feet	t from the NC	RTH line and	1880		feet from	the EAS	line
Ground Level Elev	. Producing Fo		Pool				Dedicated Acreage:
3684.0'		Delaware	Unde	signated Lost	t Tank Del	aware	40 Acres
1. Outline the ac	creage dedicated to	the subject well by colored p	encil or hack	ure marks on th	ne plat below.		
2. If more than	one lease is dedic	ated to the well, outline each	and identify	the ownership	hereof (both	as to workin	ng interest and royalty).
	one lease of differ orce-pooling, etc.?	rent ownership is dedicated t	o the well, ha	we the interest	of all owners	been consol	idated by communitization,
Yes		If answer is "yes" type o	f consolidati	ao			
		nd tract descriptions which l	have actually	been consolidate	ed. (Use reve	erse side of	
this form necess No allowable wi		the well unit all interest	s have been	consolidated	by commun	itization. u	nitization. forced-pooling.
otherwise) or u	ntil a non-standa	rd unit, eliminating such in	terest, has l	een approved h	y the Divisio	on.	•
	~		1	,		OPERAT	OR CERTIFICATION
1438.8	8. 1	3689.3	3689.3			7 her	by certify the the information
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	1		1			Date	25, 1995
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	1		1			SURVEY	OR CERTIFICATION
		·····					
	1		i				y that the well location shown vas plotted from field notes of
	1					actual surveys	made by me or under my
	1					-	nd that the same is true and he best of my knowledge and
	1 		1			belief.	a vest of my showardse that
	1		1			Date Survey	red .
	1		1			•	INE 16, 1993
	1		1			Signature &	
[· — — +					Professional	Surveyor
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Form C-102 Revised 1-1-89

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY FEDERAL "31" WELL NO. 2

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:

	<u>SET1</u>	ING DEPTH			
CASING SIZE	FRO	M TO	WEIGHT	GRADE	JOINT
13 3/8"	0	850'	545#	5.55	STC
8 5/8"	0	4550'	24#8.32#	J.55 & N-80	STC
5 1/2"	0	8650'	15.5# & 17#	J-55 & N-80	LTC

MINIMUM DESIGN FACTORS: Collapse 1.125 Burst 1 Tension 1.7

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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 tailed in with 200 sacks of Class "C". Cement to circulate.

8 5/8" casing is to be set at approximately 4550' 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 8650' in 7 7/8" hole. Casing is to be cemented with 900 sacks of Class "H" cement tailed in with 200 sx Class "C". Cement to tie back to 8 5/8" casing.

5. PRESSURE CONTROL EQUIPMENT;

Biowout 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:

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Surface to 850 feet	Fresh water spud mud. Viscosity 30 to 36 as required for hole cleaning.
850 feet to 4550 feet:	Brine conditioned as necessary for control of viscosity. Weight 9.8 to 10.0. PH 9 to 10. Viscosity 32 to 36.
4550 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.

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 45 days.

