∑or ≥ 3160-3 (November 1983) (formerly 9-331C)	DEPARTMEN	ITED STATES IT OF THE IN F LAND MANAGI	ITERIOR	S. COMA Plicati MEXICO	5. LEASE DESIGNATIO	a 31, 1985
APPLICATIC			EEPEN, OR PLUG		M-32411 6. IF INDIAN, ALLOTT	E OF TRIBE NAME
1a. TYPE OF WORK		TO DRILL, D	EEPEN, OR PLUG	BACK	-	TO UN TOIDE RAME
b. TIPE OF WELL		DEEPEN [	PLUG B	ACK 🗌	7. UNIT AGREEMENT	NAME
WELL X	WELL OTHER		SINGLE X MUL ZONE X ZON		8. FARM OR LEABE NA East Liv	ingston Ridge Uni
Pogo Produ 3. Address of Operator	ucing Company	<u> </u>	· · · · · · · · · · · · · · · · · · ·		9. WELL NO.	
P.O. Box 1	0340. Midland Tex.	as 79702			3 10. FIELD AND POOL,	
4. LOCATION OF WELL (]	Report location clearly an FNL & 1980' FEL of	d in accordance with	any State requirements.*) 22S, R-32E		East Livingston 11. BEC., T., B., M., OR AND BUEVET OF A	Ridne Delaware
At proposed prod. so	<sub>ne</sub> Same					
14. DISTANCE IN MILES	AND DIRECTION FROM NE	LEST TOWN OR POST (			Section 18, T-22	
	ast of Carlsbad, Ne				Lea County	13. STATE N.M.
15. DISTANCE FROM PROP LOCATION TO NEARER	U8ED*		6. NO. OF ACRES IN LEASE		F ACRES ASSIGNED	N.M.
PROPERTY OR LEASE (Also to Degrest dr) 18. DISTANCE FROM FROM	LINE, FT. E. Unit line. If any i	1980'	703.55	TO TH	HIS WELL	40
OR APPLIED FOR, ON TH	RILLING, COMPLETED, I <b>B LEASE, FT.</b>	1320	9. PROPOSED DEPTH 8700	20. ROTAL	RY OF CABLE TOULS Rotary	
21. ELEVATIONS (Show wh		Carlei	ad Controlled Water	Baala	22. APPROX. DATE WO	
<u>3711.2'</u>	Ground Level				Upon approval c	of Application
	·	PROPOSED CASING	AND CEMENTING PROGR	AM		
SIZE OF HOLE	BIZE OF CABING	WEIGHT PER FOOT			QUANTITY OF CEMEN	(T
<u> </u>	13 3/8"	54.5#	850		Sufficient to Ci	
<u> </u>	<u> </u>	<u> </u>	<u> </u>		Sufficient to Ci 1200 sx	rculate
	After setting and stimulated See attached f	i as necessary. For: Supplemen BOP Sketc	ng, pay zone will be ntal Drilling Data h lse and Operations Pl	a di nationali di	UND MANAGERE	
IN ABOVE SPACE DESCRIBE	Gei Spa Att	proval Subject to seral Regulasme ocial Stipulations sched	ents and s	-81	Sbad, New Mat	<i>.</i>
IN ABOVE SPACE DESCRIBE some. If proposal is to d preventer program, if any, $\overline{24}$ .	rill or deepen directional	ly, give pertinent dat	or plug Dack, give data on p a on subsurface locations a	and measured a	tive sone and proposed and true vertical depths	. Give blowout
BIGNED James M. C	hr. Rett		Agent		July 1	1, 1993
(This space for Federa	il or State office une)	/		····		<del></del>
PERMIT NO.	Scott Powe	<u> </u>	Acting Akea	Мелид	U DATE	28-43

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\*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, for stream or fraudulent statements or representations as to any matter to the statement or series from

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

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State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

> .<u>..</u> ...

## OIL CONSERVATION DIVISION

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

DISTRICT\_II P.O. Drawer DD, Artesia, NM 68210

DISTRICT I 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

··· ···								
)perator	POGO PRODUCING CO.			EAST LIVINGSTON RIDGE UNIT			NIT	Well No. 3
Jnit Letter	Section Township					County		
G	1		ישדנור 丨		30 5457	·		
G Ictual Footage Loo		22 S		·	32 EAST	NMPM	<u>1</u>	LEA
0 4 <b>7</b> 0		NOOTU						
		NORTH Hine and	1	1980		feet from	the EAST	
round Level Elev	1 1	Formation	-	Pool				Dedicated Acreage:
3711.2*	D	elaware		East L	ivingston Ric	ge Delawa	are	40 Acres
1. Outline the a	creage dedicated	i to the subject well	by colored pe					
	-	·				•	• •	g interest and royalty).
	one lease of d		dedicated to	the well, has	ve the interest of	all owners	been consoli	idated by communitization.
Yes Yes	No No	D If answer is	"yes" type of	consolidatio	a			
If answer is "no	ist of owner	s and tract descript	ions which he	we actually	been consolidated	l. (Use reve	rse side of	
this form necess								
	-							itization, forced-pooling,
otherwise) or u	ntil a non-sta	ndard unit, elimins	ting such int	erest, has b	een approved by	the Divisio	<u>.</u>	
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							Signature	
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	<b></b>			╸		▁▁」└	Agent	
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	1		1	· ]			Pogo Pi	roducing Company
	1			1		I [	Company	
1	1		3700.5	3722.1"			Julv 1	1, 1993
			3700.5				Date	
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	1		3704.5'	3720.7		1 [	SURVEY	OR CERTIFICATION
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	ļ			l		1 1		re best of my knowledge and
	I			1			belief.	
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F	+	·	<b>┝ ─ ─</b> ─ -	+			Signature & Profession	
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# SUPPLEMENTAL DRILLING DATA

#### POGO PRODUCING COMPANY

E. LIVINGSTON RIDGE UNIT NO. 3

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

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

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

### 3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONE:

Detaware

#### 4. PROPOSED CASING AND CEMENTING PROGRAM:

	SETTIN	NG DEPTH			
<u>CASING SIZE</u>	FROM	<u> </u>	WEIGHT	<u>GRADE</u>	<u>JOINT</u>
13 3/8"	0	850'	54.5#	J-55	STC
8 5/8"	0	1000'	32#	J-55	STC
44	1000'	2200	24#	J-55	STC
10	2200'	4500'	32#	J-55	STC
5 1 <i>12</i> "	0	1000'	17#	J-55	LTC
н	1000'	6000'	15.5#	J-55	LTC
10	6000'	8700'	17#	N-80	LTC

Oil

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 tailed 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 8700' 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 tie 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.

-2-





3000 PSI WORKING PRESSURE

BOP ARRANGEMENT