Form 3160-3 (July 1992)	UNI	TED STATES	, i	T IN IPLIC r instructions reverse side)	OR	FORM AF OMB NO. Expires: Febr	1004-0136
	DEPARIMEN	IT OF THE INTE	RIOR			5. LEASE DESIGNATIO	N AND SEBIAL BO.
	BUREAU O	F LAND MANAGEME	INT			NM-42814	
AP	PLICATION FOR F	PERMIT TO DRIL	L OR DEE	PEN		6. IF INDIAN, ALLOTT	ES OR TRIBE NAME
A. TYPE OF WORK	DRILL 🛛	DEEPEN 🗌				7. UNIT AGREEMENT	NAMB
WELL X	DIL X GAB DILTIPLE DILE ZONE ZONE			ין ב	8. FARM OR LEASE NAME, W	ALL NO.	
2. NAME OF OPERATOR					Federal 31 5		
Pogo Producing Company 3. ADDRESS AND TELEPHONE NO.				'	ン 2カ~	075-3311	
P.O.BOX 10340, Midland, Texas 79702					1	0. FIELD AND POOL,	OR WILDCAT
	L (Report location clearly an		State requirement	8.* 1	s	E Livingston	Ridge (Delaw
3.	30'FNL & 660'	FEL of Section (	31			1. SRC., T., B., M., OB AND SURVEY OR	BLK.
At proposed prod		1111					
Sar	THE	Unith	<b></b>			C. 31, T-21	
	) miles east of C				L	ea  Co.	N.M.
5. DISTANCE FROM P	ROPUSED		NO. OF ACRES IN LI		NO. OF	ACRES ABSIGNED	11.11.
LOCATION TO NEA PROPERTY OR LEA (Also to Destert		330'	320		TO THIS	40	
8. DISTANCE FROM	PROFOSED LOCATION®	1320'	B800 '		ROTARY	OR CABLE TOOLS ROTARY	
L. ELEVATIONS (Show 37(	whether DF, RT, GR, etc.) 05.0' Ground Leve	1			22. APPROX. DATE WORE WILL STAR Upon Approval		
3.	····	PROPOSED CASING AN		BOGRAM	1. S. S. S. S.	SO WATER	BASIN
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEP			QUANTITY OF CEME	
17-1/2"	13-3/8"	54.50# J-55			700 s		
12-1/4	8-5/8"	24,32# J-55				) sx (circ)	······
7-7/8"	5-1/2"	15.5,17# J-55	3,080 8800.		1300	) sx ( 4300'	)
-	ETARY'S POTASH	-	•••	P POTAS			and Deno
	for oil. Specific	c programs are d	Just Sufficient	the fol	lowin	ng attachment	ts:
Springs							
Springs	PROGRAM						
Springs DRILLING SURFACE	USE AND OPERATING	<u>3 PLAN</u>				<b></b> .	
Springs DRILLING SURFACE EXHIBIT	USE AND OPERATING A - ROAD MAP	<u></u>		I SUBJECT	TO	Lauren - Sentiai Auren -	
Springs DRILLING SURFACE EXHIBIT EXHIBIT	USE AND OPERATING A - ROAD MAP B - EXISTING WELL	LMAP		L SUBJECT			;
Springs DRILLING SURFACE EXHIBIT EXHIBIT EXHIBIT	USE AND OPERATING A - ROAD MAP	LMAP	GENERAL	FEQUIREN	ENTS		
Springs DRILLING SURFACE EXHIBIT EXHIBIT EXHIBIT	USE AND OPERATING A - ROAD MAP B - EXISTING WELL C - DRILLING RIG	LMAP	general Special	. FEQUIREN S'IPULATI	ENTS		
Springs DRILLING SURFACE EXHIBIT EXHIBIT EXHIBIT	USE AND OPERATING A - ROAD MAP B - EXISTING WELL C - DRILLING RIG	LMAP	GENERAL	. FEQUIREN S'IPULATI	ENTS		
Springs DRILLING SURFACE EXHIBIT EXHIBIT EXHIBIT	USE AND OPERATING A - ROAD MAP B - EXISTING WELL C - DRILLING RIG	LMAP	general Special	. FEQUIREN S'IPULATI	ENTS		
Springs DRILLING SURFACE EXHIBIT EXHIBIT EXHIBIT EXHIBIT ABOVE SPACE DESC	USE AND OPERATING A - ROAD MAP B - EXISTING WELL C - DRILLING RIG D - TOPO MAP RUBE PROPOSED PROGRAM: 10	L MAP LAYOUT DIAGRAM	GENERAL SPECIAL ATTACHE	EQUIREN	IENTS	w productive zone.	- 71 - 173 - (11 - 47 - 47 - 47 - 711 - 11 - 11 - 11 - 11 - 11 - 11 -
Springs DRILLING SURFACE EXHIBIT EXHIBIT EXHIBIT EXHIBIT ABOVE SPACE DESC	USE AND OPERATING A - ROAD MAP B - EXISTING WELL C - DRILLING RIG D - TOPO MAP	L MAP LAYOUT DIAGRAM	GENERAL SPECIAL ATTACHE	EQUIREN	IENTS	w productive zone.	- 71 - 173 - (11 - 47 - 47 - 47 - 711 - 11 - 11 - 11 - 11 - 11 - 11 -
Springs DRILLING SURFACE EXHIBIT EXHIBIT EXHIBIT EXHIBIT ABOVE SPACE DESC open directionally, give	USE AND OPERATING A - ROAD MAP B - EXISTING WELL C - DRILLING RIG D - TOPO MAP RUBE PROPOSED PROGRAM: 10	L MAP LAYOUT DIAGRAM	GENERAL SPECIAL ATTACHE	EQUIREN	IENTS	w productive zone. Itt	- 71 - 10 - 41 - 41 - 42 - 42 - 41 - 41 - 41 - 41 - 41 - 41 - 41 - 41
Springs DRILLING SURFACE EXHIBIT EXHIBIT EXHIBIT EXHIBIT ABOVE SPACE DESC epen directionally, give	USE AND OPERATING A - ROAD MAP B - EXISTING WELL C - DRILLING RIG D - TOPO MAP RUBE PROPOSED PROGRAM: 10	L MAP LAYOUT DIAGRAM f proposal is to deepen, give data ons and measured and true vertic	GENERAL SPECIAL ATTACHE a on present production cal depths. Give blowed	EQUIREN	IENTS	w productive zone. It	poposal is to drill or
Springs DRILLING SURFACE EXHIBIT EXHIBIT EXHIBIT EXHIBIT ABOVE SPACE DESC spen directionally, give	USE AND OPERATING A - ROAD MAP B - EXISTING WELL C - DRILLING RIG D - TOPO MAP RIBE PROPOSED PROGRAM: 10 pertinent data on subsurface location W. M. C. Mth.	L MAP LAYOUT DIAGRAM f proposal is to deepen, give data ons and measured and true vertic	GENERAL SPECIAL ATTACHE a on present production cal depths. Give blowed	Ve 2 one and proj	IENTS	w productive zone. It	poposal is to drill or

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APPROVED BY 5 6 4 510	Egglel me	Acting State	) ire crow DATE	2-26-97
	*See Instru	ctions 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

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State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

### OIL CONSERVATION DIVISION P.O. Box 2088

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

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

# Santa Fe, New Mexico 87504-2088

## WELL LOCATION AND ACREAGE DEDICATION PLAT

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

• All Distances must be from the outer boundaries of the section

Operator			Lease		4		Well No. 3
POGO PRODUCING CO.			FEDERAL 3	1	1.0		
Unit Letter	Section	Township	Range	TO EAST	N12 (777)	County	LEA
A Actual Footage Loc	31	21 SOUTH		32 EAST	NMPM		
770	NO	RTH line and	660	ſ	eet from	the EAS	T line
Ground Level Elev	C HOM CHE		Pool				Dedicated Acreage:
3708.2							Acres
1. Outline the ac	creage dedicated to	the subject well by colored p	encil or hach	ure marks on the pl	at below.		
		ated to the well, outline each					
	one lease of differ force-pooling, etc.?	ent ownership is dedicated t	o the well, ha	we the interest of al	l owners	been conso	lidated by communitization,
Yes	No No	if answer is "yes" type o					
		nd tract descriptions which l					
this form necess No allowable w otherwise) or u	rill be assigned to	) the well unit all interest rd unit, eliminating such in	s have been nterest, has	consolidated (by c been approved by th	e Divisi	itization, u on.	nitization, forced-pooling,
				3710.2' :		OPERA	TOR CERTIFICATION
	1			1 /0.1	16.9'		reby certify the the information
	, I			₿698.3 <sup>1</sup> 0- > 60	50' <del>-</del>		rein is true and complete to the nowledge and beilpf ( 10
						mil	
	i			3702.6'		Signature	IES M.C. Rodelie Ja
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	+	+		+		Position	0
	l			1		Paga	Flodvening Co.
	1			1		Company	20, 1993 /1-15-97
	1					Date	<u>w, 1112/112/11</u>
	l					CUDVE	YOR CERTIFICATION
	1					SURVE	IOR CERTIFICATION
				<u>+</u>			tify that the well location shown
							was plotted from field notes of ys made by me or under my
				1			and that the same is true and the best of my knowledge and
				1		correct to belief.	rue dest of mile supported a sup
				1		Date Surv	eyed
				1			MAY 17, 1993
				· +		Signature Profession	& Scal of al Surveyor
	l			1			
	1			1			GARY L. JOAL
				1			
	1			1			(XETS)
		ł		1			7977 0 JOHN W WEST & 676
				1		Certifier	NONALD . EDSON 5239
							70 CARY L 015 / 7971
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		······					



MINIMUM DESIGN FACTORS Collabse 1 125 Burst 11 Tensign 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 proviate.

<u>UC (MT</u> 510

STC

STO STO

LTC LTC LTC

<u>575</u>

a 5/6" casing is to be set at approximately 4500" in 11" hole. Casing is to be comented with 1200 sacks of Light coment tailed in with 200 sacks of Class "C". Coment to provide.

5 1/2" casing is to be set at 3800" in 7 7/3" hele. Casing is to be certiented with 600 sacks of Class "H" cement tailed in with 700 sx Class "C". Cement to be back to 8 5/3" clasing.

#### 5. PRESSURE CONTROL EQUIPMENT

Elewout prevention equipment, while inling the 124 hole, will be either a 3000 psi working pressure double ramitice preventer or a 3000 psi working pressure annuar type preventer. - BOPE will be as shown in dit prome while drikg 77/2" bore.

- 1 -

#### 6. CIRCULATING MEDIUM:

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 பி.≤pgVisocity 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 38,00 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.

