Form 3160-3 (July 1992)	N.M. C P.O. BO HOBBE DEPARTMEN	DX PROPER	TY NO DDE 	291 <u>-</u> 77-	iCATE•	FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995
ند. • • • • • • • • • • • • • • • • • • •	BUREAU O	F LA	E <u>1020</u>	33 16	21	5. LEASE DEBIGNATION AND BEBIAL NO. NM-42814
APP	LICATION FOR F	PER APINO				6. IF INDIAN, ALLOTTER OR TRIBE NAM
D. TIPE OF WELL		DEEPEN			-	7. UNIT AGREEMENT NAME
WELL X 2. NAME OF OPERATOR	WELL OTHER			MULTH ZONE	² L B	6. FARM OR LEASE NAME WELL NO
Pogo Producir 3. ADDRESS AND TELEPHONE NO			(Richard Wrig	ht)		Federal "31" Well #2
P.O. Box 1034	40 Midland, Texa	as 79702	915-682-6822		1	SE LivingSton D
4 TOCATION OF THEIR /	Destation			nts.")		West Red Tank Delawar
	Same as a	above	24	nit E	}	1. BEC., T., R., M., OB BLK. AND SURVEY OR AREA Sec. 31 T21-S R32E
14. DISTANCE IN MILES Approximately 15. DISTANCE FROM PROP	AND DIRECTION FROM NEAR 30 miles East c	of Carlsbad	New Mexico	,	1:	2. COUNTY OR PARISH 13. STATE Lea NM
LOCATION TO NEARES PROPERTY OR LEASE (Also to Degrest dr)		30'	16. NO. OF ACRES IN	LEASE	17. NO. OF A TO THIS	CBES ASSIGNED WELL
18 DISTANCE FROM PROM TO NEAREST WELL, P	POSED LOCATION*		320 19. proposed depth		20. ROTARY (40 DE CABLE TOULS
OR APPLIED FOR, ON TH	LIS LEASE, PT.	20'	8800'		Rotar	
	Ground Level				1	22. APPROX. DATE WORK WILL START S SCON AS APPROVED
SIZE OF HOLE			GAND CEMENTING	ROGRAM	Ň	FATA Pokus
175	J-55 13 3/8"	WEIGHT PER POO	T BETTING DE		700 Sx	QUANTITY OF CEMENT
$\frac{12\frac{1}{2}}{7.7/8^{"}}$	J-55 8 5/8"	32 & 24	4500'		1400 Sx	<u>Circulate to surface</u> <u>Circulate to surface</u>
	J-55,N-80 5 ¹ / ₂ "	17 & 15.5	8800'	<u> </u>	1300 Sx	Tie back to 4300'±
2. Drill 12½" 32# middle	hole to 4500'. 1 1200' 24# & top	with 2005x. Run and set 1000' 32# c	4500' 8 5/8" asing, Cemen	Circul J-55 - with	ate cemen ST&C cas: 1200 sy	ST&C casing. Cement nt to surface. ing, bottom 2300' . of Light cement
3. Drill 7 7/8 LT&C, middl Class "H" t 200' into 8	" hole to 8800'. e 5000' 15.5# J- ail in with 700 5/8" intermedia	. Run and se -55 LT&C, to Sx. Class " ate casing.	ate cement to et 8800' of 5 p 1000' 17# . 'C''. Bring cen	o surf; ₂" ¢as: J-55 L; hent ba	ace. ing, bott F&C. Ceme ack to at	com 2800' 17# N-80 ent with 600 Sx. : least 4300'
4. After settin necessary.	ng production ca	sing, pay z.	one will be p	erfora	ited and	stimulated as
	See attached for		obe and opera	LTOUR	rian.	
epen directionally, give partines	PROPOSED PROGRAM: If proj nt data on subsurface locations at	posal is to deepen, give nd measured and true ve	data on present productiv ritical depths. Give blowo	e zone and at preventer	proposed new pi program, if any.	roductive zone. If proposal is to drill or
	TIL		Agent	.		09/06/95
SIGNED ACC-C	- poul	JIII.E				
SIGNED (This space for Federal	I or State office use)					
(This space for Federal PERMIT NO.	/		APPROVAL DATE			APPROVAL SUBJECT TO
(This space for Federa) PERMIT NO. Application approval does not a CONDITIONS OF APPROVAL, IP	warrant or certify that the applicar		e title to those rights in the		which would entite	APPROVAL SUBJECT TO GENERAL REQUIREMENTS AN SPECIAL CONSTINUE ATTOMS of the reconstruction of the second se

SÉÌ

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 face in fictuitious or fraud cent statements or representations of the section of th

47

l

Form 3160-3 (November 1983) (formerly 9-331C)	<u>_</u> 11N	ITED STATI	i fað i	SUBM (Oth		JCAT	Budget Burea	No. 1004. 0126
(101	DEPARTMEN	NT OF THE	13 INTEDI		reserse si	de)	Expires Augu	st 31, 1985
							5. LEASE DESIGNATIO	ON AND BEBIAL NO.
		F LAND MANA					M-428	14
APPLICATIC	IN FOR PERMIT	TO DRILL	DEEPEN	J OR PI	LIG R	ACV	6. IF INDIAN, ALLOTT	TE OR TRIBE NAME
1a. TYPE OF WORK					.00 b		_	
b. TYPE OF WELL	RILL 🕅	DEEPEN		PLU	GBAC	K 🗌	7. UNIT AGBEEMENT	NAME
WELL A	GAS OTHER		SINGI Zone		MULTIPL ZONE	•	8. FARM OR LEASE N	AME
2. NAME OF OPERATOR							- Federa	1 21
Pogo Produ	ucing Company						9. WILL NO.	31
3. ADDRESS OF OPERATOR							2	
P.0. Box 1	10340, Midland, Tex	as 79702					10. FIELD AND POOL, OF WILDCAT	
4. LOCATION OF WELL (F At surace	Report location clearly an	d in accordance w	th any State	e requirement	5.*)		-	
330'	FNL & 1880' FEL of	Section 31, 7	-21S. R-3	32F			Undesignated Lo	BLK LANK DE LAWAR
At proposed prod. zo:		,	-,				AND SUBVEY OR	ELA
	Same as above						Section 21 To	
14. DISTANCE IN MILES AND DIBLCTION FROM NEAREST TOWN OR POST OFFICE.						Section 31, T-2 12. COUNTY OF PARISI	15, R-32E	
30 miles E	ast of Carlsbad, Ne	ew Mexico						
 DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to Dearest drig, unit line, if any) 					17. 80. 0	Lea F ACEES ASSIGNED	<u> N.M.</u>	
				TO TH	TO THIS WELL			
IS. DISTANCE FROM PROP	OFFD LOCATIONS		19 280205	320		00	40	
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		10001	19. PROPOSED DEPTH 20. ROT. 1320' 8700'			20. ROTABY OF CABLE TOOLS		
21. ELEVATIONS (Show whether DF, RT, GR, etc.)		1320*				Rotary 22. Approx. DATE WORK WILL START*		
	round Level	- 8 	The A	a sheatin san San San San	17 . S	35-		
3.				1999 - 1999 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 -	ित्यके की दि ————————————————————————————————————	POSIT	Upon Approval	of Application
PROPOSED CASING AND CEMENTING PROGRAM					يىرى ئى ئۇرىيى ئىلىرى ئىلى ئىلى ئىلى. ئىرىكى ئىلى ئىلى ئۇرى ئۇر	3.A		
SIZE OF HOLE	BIZE OF CASING	WEIGHT PER FO	TOT	SETTING DEPT	н		QUANTITY OF CEME	(T
17 <u>1</u> "	13 3/8"	54.5#		850'			Sufficient to Ci	rculate
121	8 5/8"	32#		4500'			Sufficient to Ci	
7 7/8"	5 1/2"	15.5# & 1	7#	8700'				
/ //٥	5 1/2" After setting F stimulated as r	Production Cas	1		be per	forated	1200 sx (승규는 중 and	Hps)

See attached for:	Supplemental Drilling Data BOP Sketches Surface Use and Operations Plan	SURLAW OF LAND HALL
ඩා. රූදා	rra (1911) 2019 2014 - Carala and 2 a chailteachail airea	G DIST. 6 N.M.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive solic-and-proposed new productive preventer program, if any.

BIGNED Augura Li (. Mitch Bignes M.C. Ritchie, Jr.	Agent	DATE June 25, 1993
(This space for Federal or State office use) J	APPROVAL DATE	
APPROVED BY	TITLE ACT, SARA Dr 20 ctor	BATE 8-10-93

*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

.

. • • • State of New Mexic

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

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 PRODU	CING CO.	Lease	FEDERAL "31"	Well No. 2
Unit Letter	Section	Township	Range		County
B	31	21 SOUTH	3	2 EAST NMPM	LEA
Actual Footage Loc					
		RTH line and	1880	feet from	the EAST line
Ground Level Elev	• • •	ormation		vingston R	
3684.0'	Delaware			ited Lost Tank Dela	
1. Outline the ad	creage dedicated to	the subject well by color	ed pencil or hachure n	narks on the plat below.	
2. If more than	one lease is dedic	ated to the well, outline	each and identify the	ownership thereof (both	as to working interest and royalty).
unitization, f	one lease of differ orce-pooling, etc.?	rent ownership is dedicate	d to the well, have th	e interest of all owners	been consolidated by communitization.
Yes	No No	If answer is "yes" typ	e of consolidation	·	
If answer is "no"	" list of owners as	nd tract descriptions which	ch have actually been	consolidated. (Use reve	rse side of
this form necessary		the well unit all inter			itization, unitization, forced-pooling,
otherwise) or m	atil a non-standa	rd unit, eliminating such	<u>interest, has been a</u>	approved by the Divisio	nazadon, unitization, forced-pooling, un.
<u></u>					OPERATOR CERTIFICATION
1438.8	er i	3689	.3'3689.3		
	1		C	1880'	I hereby certify the the information contained herein is true and complete to the
	1		i 🛔 i 🛛 🖢		best of my knowledge and belief.
		3678	1.9		hun lli. C. litter
			33		Signature
			I		<u>Janes M.C. Ritchie, Jr.</u>
	1				
			+	-	Agent
	Ì		i		Pogo Producing Company
	i				Company
1	1				June 25, 1993
ľ	i I		1	r† (Date
	1				
					SURVEYOR CERTIFICATION
				₁	hereby certify that the well location shown
				1 1	m this plat was plotted from field notes of
	1				ictual surveys made by me or under my
			·		upervison, and that the same is true and orrect to the best of my knowledge and
	1		1		elief.
	1		· • •		Date Surveyed
	1		1		JUNE 16, 1993
1	1		1		Signature & Seal of
			+		Professional Surveyor
1	[GARY L. JONES
	1		1		HEVI ME
	l		l	7	N_I ((X) Sh I)
-]		Ì	· · · · · · · · · · · · · · · · · · ·	1 Adun X-1USNort
	Ì		1		Contension OHN V MEST 676
1444.1'	· ·		1	· · //	FO RONAL J. EDSEN 3233
					OFTEN DEN DAES 7977
0 330 660	990 1320 1650	1980 2310 2640	2000 1500 100	0 500 0	93

1 - 1 - 1 - 1 - 1 - 1 - 3 Ç.,ġ...

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY FEDERAL "31" WELL NO. 2

1. SURFACE FORMATION: 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' 6000'	1000' 6000' 8800'	17# 15.5# 17#	J-55 J-55 N-80	LTC LTC 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 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 8800' 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 **124** 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.
<u>4500 feet to T.D.</u> :	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:

(JS)

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 wa ranted.

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.



-

.

