Form 3160-3 (Jaly 1992)	UNIT DEPARTMENT BUREAU OF	OFEFF DAT	DDE 39	9331 1366 191,	ATE on	OMB NO. 1 Bripires: Febru 5. LEASE DEBIGNATION NM-69372	004-0136 Hry 28, 1995 AND BEBIAL NO.		
APPL	ICATION FOR PE				<u>د</u>	6. IF INDIAN, ALLOTTE	OR TRIBE NAME		
	ILL 🖾	DEEPEN [7. UNIT AGREEMENT N	AMB		
WELL X	AS OTHER		SINGLE X	MULTIPI ZONE		8. FARM OR LEASE NAME, WE	tr J		
2. NAME OF OPERATOR POGO PRODUCIN	G COMPANY					East Livingsto 9. API WELL NO.	n Kiuge onit		
4. LOCATION OF WELL (F At surface	0 MIDLAND, TEXA seport location clearly and	in accordance wit		irements.*)		10. FIELD AND POOL, C East Livingsto 11. BEC., T., R., M., OR	on Ridge Delawar		
At proposed prod. zo			LEA CO. N	EW MEXICO $+ \frac{1}{2}$		Sec. 7 T22S-F	832E		
	AND DIRECTION FROM NEAR 30 miles East of					12. COUNTY OR PARISH Lea County	13. BTATE New Mexico		
15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE (Also to desrest dr]	USED* T LINE, FT. g. unit live, if any;	660'	16. NO. OF ACE 703.55	ES IN LEASE	TO TH	F ACRES ASSIGNED HIS WELL 40			
18. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DEPTH TO NEAREST WELL, DRILLING, COMPLETED, 08 APPLIED FOR, ON THIS LEASE, FT. 1320 7400						OTART OF CABLE TOOLS Rotary 22. Appros. Date work will start*			
21. ELEVATIONS (Show who 3696.3'						As soon as ap			
23.	J	ROPOSED CASE	NG AND CEMEN	TING PROGRAM	1	accordry's Poto	1513		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	07 887	TING DEPTH		QUANTITY OF CEMEN	T		
<u>12¹z''</u> <u>7 7/8''</u>	J-55 8 5/8" J-55, N-80 4½"	<u>24 #</u> 11.6_	65 #7400	-	500_Sx 1500_S	<u>Circulate to</u> Circulate to			
		<u></u>							

- 1. Drill 12¼" hole to 650'. Run and set 650' of 8 5/8" J-55 24# ST&C casing. Cement with 300 Sx of light cement tail in with 200 Sx. Class "C" + 2% CaCl. Circulate cement to surface.
- 2. Drill 7 7/8" hole to 7400'. Run and set 7400' of 4½" casing as follows: 500' of 4½" N-80 11.6 # LT&C, 5900' of 4½" J-55 11.6 # LT&C, 1000' of 4½" N-80 11.6 # LT&C casing. Cement with 1000 Sx. of light cement tail in with 500 Sx. of premium cement. Circulate cement to surface.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen directionally-give pertinent data on subsurface locations and measu	io deepen, give da ured and true verti	ical depins. Give blowous prev	enjer program, il any.
24. BIGNED Det Jonera	_ TITLE	Agent	09/09/95
(This space for Federal or State office use)		APPROVAL DATE	GEPROVAL SUBJECT TO GENERAL REQUIREMENTS AND

SEP 1 1 1995

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to the applicant holds legal or equitable title to the applicant holds legal or equitable title to the applican

APPROVED B/S/G. 1beri J Lucers ITLE ACTING STATE DISCOMPATE *See Instructions On Reverse Side 10-17-95

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.

APPLICATION TO DRILL

POGO PRODUCING COMPANY EAST LIVINGSTON RIDGE UNIT # 5 660' FSL & 1650' FEL SEC. 7 T22S-R32E LEA CO. NM

In response to questions asked under Section II B of Bulletin NTL-6 the following information is provided for your consideration:

- 1. Location: 660' FSL & 1650' FEL SEC. 7 T22S-R32E LEA CO. NM
- 2. Elevation above sea level: 3696.3 GL.
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5. Proposed drilling depth: 7400'
- 6. Estimated tops of geological markers:

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

7. Possible mineral bearing formations:

Delaware OIL

8. Casing program:

HOLE SIZE	INTERVAL	OD CSG	WEIGHT	THREAD	COLLAR	GRADE	COND.
12¼"	0-650'	8 5/8"	24#	8-R	ST&C	J-55	New
7 7/8"	o-7400'	4 ¹ ₂ "	11.6#	8-R	LT&C	J-55 N-80	New

APPLICATION TO DRILL

POGO PRODUCING COMPANY EAST LIVINGSTON RIDGE UNIT # 5 660' FSL & 1650' FEL SEC. 7 T22S-R32E LEA CO. NM

9. Cementing and setting depth:

- 8 5/8" Surface Set 650' of 8 5/8" J-55 24# ST&C casing cement with 300 Sx. of light cement tail in with 200 Sx. Class "C" + 2% CaCl. Circulate cement to surface.
- 4½" Production. Set 7400' of 4½" J-55 & N-80 11.6# LT&C casing. Cement with 1000 Sx. light cement tail in with 500 Sx. of Premium cement. Circulate cement to surface.
- 10. Pressure Control Equipment: Exhibit "E". A Blow-out Preventer (no less than 900 series 3000 psi working pressure) consisting of double ram type preventer with bag type preventer. Units will be hydraulically operated. Exhibit "E-1" Choke Manifold and Closing Unit. Blind rams on top, pipe rams on bottom to correspond with size of drill pipe in use. BOP will be nippled up on 8 5/8"casing and remain on well until casing is run and cemented. BOP will be tested as well as choke manifold. BOP will be worked at least once each day while drilling and blind ram will be worked on trips when no drill pipe is in hole. Flow sensor PVT, full opening stabbing valve and upper kelley cock will be utilized. Anticipated BHP 3200 PSI and BHT 125°.

DEPTH	MUD. WT.	MUD VISC.	FLUID LOSS	TYPE MUD
0-650'	8.6-8.8	30-35	NC	Fresh water Spud mud add paper for seepage.
650-7400'	1010.2	29-35	NC*	Brine water add paper for seepage control lime pH control Gel to control viscosity.
drilled.	In order to 1	red before the run logs and ca ve to be adjust	sing viscosity	7

11. Proposed Mud Circulating System:

Sufficient mud materials to maintain mud properties, meet lost circulation and weight increase requirments will be kept at wellsite at all times. In order to run casing and log well viscosity may have to be raised and water loss may have to be lowered. POGO PRODUCING COMPANY EAST LIVINGSTON RIDGE UNIT # 5 660' FSL & 1650' FEL SEC. 7 T22S-R32E LEA CO. NM

12. Testing, Logging, and Coring Program:

- A. DST'S may be run if shows dictate.
- B. Mud logger will be employed from 4500' to TD.
- C. Open hole electric logs will be run. Gamma Ray, Caliper, CNL-DENSITY, Dual -Laterlog.
- D. No cores are planned.

13. Potential Hazards:

No abnormal pressures or temperature zones are expected in this well. (nothing abnormal encountered in offset well at this depth) Hydrogen Sulfide gas is not anticipated, however all precautions will be observed and detection equipment will be installed. No lost circulation is expected (none reported in this area). Estimated BHP 3200 PSI estimated BHT 125°. H_2S contingency plan is included in this APD.

14. Anticipated spud date and duration of operation:

Road and location will begin after the BUREAU OF LAND MANAGEMENT has approved this APD. Anticipated spud date is 10/25/95. Drilling is expected to take 10-15 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities in order to place well on production.

15. Other facets of operation:

After running casing cased hole correlation logs will be run from TD over the pay intervals. The Delaware pay will be perforated and stimulated. The well will be stimulated, swab tested and completed as an oil well

1

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

State of New Mexico

State of New Mexico Energy, Minerals and Natural Resources Department SEDENVEForm C-102 Revised 1-1-89

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

OIL CONSERVATION DIVISION In 75 10 10 41 93 P.O. Box 2088

Santa Fe, New Mexico 87504-2088

JUL ZO	10 40 au	JJ
GAT.L AREA		

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 1000 Rio Brazos Rd.,	, Aztec, NM 87410			the outer boundaries of			
Operator	POGO PRODUC	ING CO.	Lesse	EAST LIVINGSTON	RIDGE I	JNIT	Well No. 5
Unit Letter	Section	Township	Range			County	
0	7	22 SOUT	н I	32 EAST	NMPM	1	LEA
Actual Footage Loca		— 1	16	50		the EAS	Τ ν
660 feet Ground Level Elev.	from the SOU Producing For		Poel	50 T. Livingstons li	feet from	the cro	Dedicated Acreage:
3696.3'	Delawa		Ent	SIGNATED	ciage D.	encomple	40 Acres
	Delawa	the subject well by		hachure marks on the	plat below	·.	
1							ng interest and royalty).
3. If more than o	one lease of differe	ent ownership is de	dicated to the wel	l, have the interest of	all owner:	s been consol	idated by communitization,
	rce-pooling, etc.?						
Yes [No No		s" type of consol			·	<u> </u>
		d tract description	s which have actu	ally been consolidated	l. (Use revi	erse side of	
this form necessar No allowable will	1 be assigned to	the well unit all	interests have 1	een consolidated (b	y commun	itization, u	nitization, forced-pooling,
otherwise) or unt	til a non-standar	d unit, eliminating	g such interest, h	has been approved by	the Divisi		
			<u></u>			OPERAT	OR CERTIFICATION
	1			• •			by certify the the information
	1						ein is true and complete to the owledge and belief.
	1						hic. Rith
	1			1		Signature	
	Í			1			m.c. Ritchie. Ju
	i			1		Printed Nam	
						AGENT	
	í						Aducting Compound
	1					Company	oducing Company
	1					1014.	23, 1993
	1					Date	
				I		SURVEY	OR CERTIFICATION
	1			I		DOMULI	
							y that the well location shown
	l			1			as plotted from field notes of made by me or under my
	l					supervison. a	nd that the same is true and
	ļ			1		correct to the belief.	re dest of my knowledge and
	l	. }		1		·	
	1			ĺ		Date Survey	ed 20, 1993
	1			Ì	-	Signature	the set of the set
	+					Professione	SHEEVOL
	1						
	I]	3688.6	3693.1			7977
	l	.					
	1			1650'		てあん	VL/FM NOD
			3698.6	3702.6	•		
		1	- 65	Į.		Certificat	6
L						1	RONALD J. EIDSON, 3239
					= -		CARY L. JONES, 7977
0 330 660 9	990 1320 1650	1980 2310 2640	2000 15	00 1000 500	0	9	3-11-0918

FLOW LINE FILL LINE E ANNULAR TYPE PREVENTER Adjustable Only RAMS 2 nΩ TO MUD PIT RAMS ര 3" 3" DRILLING :3" 3"_ 2 \square TO RESERVE KILL LINE 4 ÷ 2 ້ TO MUD PIT CASING HANGER 2" 2" BLIND FLANGE ADJUSTABLE CHOKE



3000 PSI WORKING PRESSURE

BOP ARRANGEMENT