Form 3160-3 (July 1992)	UNIT DEPARTMENT BUREAU OF	PROPERTY NO	40299 12/8/25	- ICATE 3 ON 216	FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995 5. LEASE DEBIGNATION AND BEBIAL NO NM86710 6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK		DEEPEN		:	7. UNIT AGREEMENT NAME	
b. TIPE OF WELL						
WELL X	VELL OTHER				6. FARM OR LEASE NAME, WELL NO Federal "31" # 10	
2. NAME OF OPERATOR Pogo Producing	g Company	(Ric	hard Wright)		9. API WELL NO.	
3. ADDRESS AND TELEPHONE NO.			<u> </u>			
P.O. Box 1034	0 Midland, Texa		-682-6822		10. FIELD AND FOOL, OR WILDCAT	
At suriace	Report location clearly and			·	11. SEC., T., E., M., OR BLE.	
-	310' FWL Sec. 31			.co	AND SURVEY OR AREA	
At proposed prod. zor		•	it F		Sec. 31 T21S-R32E	
14. DISTANCE IN MILES	AND DIBECTION FROM NEAR	F Comlabed Nor	CE*		12. COUNTY OR PARISH 13. STATE Lea NM	
	30 miles East o		NO. OF ACRES IN LEASE		F ACBES ASSIGNED	
15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE 1	T LINE, FT. 220				40	
(Also to nearest dri)	g. unit line, if any) 550		160 PROPOSED DEPTH	20. ROTAE	RY OB CABLE TOULS	
TO NEAREST WELL, D OR APPLIED FOR, ON TH	ORILLING, COMPLETED,	0'	8800'	Rot	ATY 22. APPROX. DATE WORK WILL START	
21. ELEVATIONS (Show wh	ether DF. RT. GR. etc.)	the second se				
-		Carls	had Controlled Wal	ter Basin		
	3	643' GK	bed Controlled Wat		As soon as approved	
23.	3	643' GK	ND CEMENTING PROGRA		As soon as approved Secretary's Potash	
	GRADE, SIZE OF CASING	PROPOSED CASING AN	ND CEMENTING PROGRA	м	As soon as approved Secretary's Potash QUANTITY OF CEMENT	
23. size of Role 17'2''	31 GRADE, SIZE OF CASING J-55 13 3/8	PROPOSED CASING AN WEIGHT PER FOOT	ND CEMENTING PROGRA		As soon as approved Secretary's Potash QUANTITY OF CEMENT Circulate to surface	
23. BIZE OF HOLE 17½" 12½"	31 0RADE, SIZE OF CASING J-55 13 3/8 J-55 8 5/8''	PROPOSED CASING AN	ND CEMENTING PROGRA	м 700 Sx	As soon as approved Secretary's Potash QUANTITY OF CEMENT Circulate to surface Sx Circulate to surface	
23. BIZE OF ROLE 17½'' <u>12½''</u> 7 7/8''	31 GRADE SIZE OF CASING J-55 13 3/8 J-55 8 5/8'' J-55, N-80 5 ¹ / ₂ ''	643* GR PROPOSED CASING AN weight per poot 54.5 32 & 24 17 & 15.5	ND CEMENTING PROGRA 850' 4500' 8800'	M 700 Sx 1400 S 1300 S	As soon as approved Secretary's Potash QUANTITY OF CEMENT Circulate to surface Sx Circulate to surface Sx Tie back to 4300'±	
23. size of Role 17½" 12½" 7 7/8" 1. Drill 17½" with 500 Si 2. Drill 121"	3 ORADE, SIZE OF CASING J-55 13 3/8 J-55 8 5/8" J-55, N=80 5 ¹ 2" hole to 850'. H x. Light tail in hole to 4500'	PROPOSED CASING AN WEIGHT PER FOOT 54.5 32 & 24 17 & 15.5 Run and set 850 n with 200Sx. (Run and set 4	ND CEMENTING PROGRA 850' 4500' 8800' 0' of 13 3/8" J- Class "C". Circu 500' 8 5/8" J-55	M 700 Sx 1400 S 1300 S -55 54.5 ilate ce	As soon as approved Secretary's Potash QUANTITY OF CEMENT Circulate to surface Sx Circulate to surface Sx Tie back to 4300'± # ST&C casing. Cement ement to surface. casing, bottom 2300'	
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APPROVED BY Gilbert J Lucero TITLE	Activist	State Dirpeter	DATE	NEV 2 2 1995
*See Instru	ctions On Reve	rse 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 String on faton, figurised or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I P.O. Box 1960, Hobbs, NM 86241-1960

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DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088 State of New Mexico

Energy, Minerals and Natural Resources Department.

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API 30-025	Number 5-33	216	-51698	Pool Code	99	-	Lost	[an]	Pool Name		<u>,</u>
Property 932	Code								Well Num 10	aber	
OGRID N 17891	0.			POGO	-	ucing	COMPANY		· · · · · · · · · · · · · · · · · · ·	Elevatio 364	
					Surfac	e Loca	ation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	•	Feet from the	East/West line	County
F	31	21 S	32 E		23	10	NORTH		2310	WEST	LEA
				· · · · · · · · · · · · · · · · · · ·			rent From St				
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	•	Feet from the	East/West line	County
Dedicated Acres 40	B Joint o	r Infill Co	nsolidation	Code Orde	er No.					<u> </u>	<u> </u>
NO ALLO	WABLE W						NTIL ALL INT			EEN CONSOLIDA	ATED
43.62 A LOT 2 43.66 A LOT 3	1 <u>C.</u> 2 	3642		5.0 [,] 7.4 [,]					I hereb contained herei best of my know best of my know Signature Richard Printed Nam Division Title 10/14 Date SURVEYC I hereby certify on this plat un ectual surveys supervison, em)R CERTIFICAT , that the well locate as plotted from field made by me or	MGR. ION ION Insteam I
43.70 A LOT 4	-			·					Date Surveye Signature & Professional P		SJA 95- 665

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Operators Name: Street or Box: City, State: Sip Code: Pogo Producing Company P. O. Box 10340 Midland, Texas 79702-7340

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portions thereof, as described below:

Lease No.: NM- 86710

Well Name:

Federal 31 # 10

Legal	Description	of Land:	5E/4, NW/4 Section 31,	
			T215, R 32E, Lea County,	
			New Mexico	

Formation(s) (if applicable):

Bone Coverage: (State if individual bonded cr another's bond) Individual

BLM Bond File No. 0405

Richard L. Wright

Authorized Signature:

Title: Division Operations Manager

November 7, 1995 Date:

APPLICATION TO DRILL

POGO PRODUCING COMPANY FEDERAL "31" #10 2310' FNL & 2310' FWL SEC. 31 T21S-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: 2310' FNL & 2310' FWL SEC.31, T21-S R32E Lea Co., NM

2. Elevation above sea level: 3643' GR

3. Geologic name of surface formation: Quaternery Aeolian Deposits.

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- 4. Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5. Proposed drilling depth: 8800'
- 6. Estimated tops of geological markers:

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

7. Possible mineral bearing formation:

Delaware

8. Casing program:

<u>Hole siz</u>	e Interval	OD casing	Weight	Thread	Collar	Grade	Condition
17½"	0- 850'	13 3/8"	54.5	8- R	ST&C	J-55	New
12¼"	0-4500."	8 5/8"	24 & 32	8-R	ST&C	J-55	New
7 7/8"	0-8800'	5½"	15.5 & 17	8-R	LT&C	J-55 & N-80	New

APPLICATION TO DRILL

POGO PRODUCING COMPANY FEDERAL "31" #10 2310' FNL & 2310' FWL SEC. 31 T21S-R32E LEA CO.,NM

9. Casing Cementing and Setting Depth:

13 3/8"	Surface Casing	Set 850' of 13 3/8" J-55 54.5# ST&C casing. Cement with 500 Sx. Light cement tail in W/200 Sx. Class "C" + additives, circulate cement to sufsce.
8 5/8"	Intermediate Csg.	Set 4500' of 8 5/8" J-55 24 & 32 # ST&C Csg. Cement W/1200 Sx. Light cement tail in with 700 Sx. Class "C" circulate cement to surface.
5½"	Production Csg.	Set 8800' of 5 ¹ 2" J-55 & N-80 15.5 & 17# LT&C Casing. Cement w/600 Sx. Class "H" tail in W/700 Sx. Class "C" bring cement back to 200' into the 8 5/8' casing.

10. Pressure Control Equipment: Exhibit "E". A Blow-out Preventer (no less than 900 Series 3000PSI working pressure) consisting of double ram type preventer with bag type preventer. Units will be hydrauli-cally 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 13 3/8" 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 & 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 3700 PSI and 130° BHT.

DEPTH	MUD. WT.	MUD VISC.	FLUID LOSS	TYPE MUD
0-850'	8.6-9	30-36	NC	Fresh water base Spud mud use paper as needed for seepage.
850-4500'	9.8-10	32-36	NC	Brine water with Gel to control viscosity to clean hole add paper for seepage.
4500 '- TD	9-10	38-45	6-10 CC	Brine with Gel for viscosity Starch for water loss control, lime for pH paper for seepage control

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.

APPLICATION TO DRILL POGO PRODUCING COMPANY FEDERAL "31" #10 2310' FNL & 2310' FWL SEC.31 T21S-R32E LEA CO., NM

12. Testing, Logging, and Coring Program:

- A. Mud logger will be rigged up after intermediate casing is set at 4500'
- B. Drill stem tests will be run when shows dictate.
- C. Open hole logs will be run. GR-CNL DENSITY DUAL LATEROLOG AND CALIPER.

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 3700 PSI estimated BHT 130° . H₂S 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 /15/95. Drilling is expected to take 15 to 20 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

