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	r PF	ROPERTY NO.	1346	<u>U</u>	PLICATE	•	
Form 3160-3 (July 1992)	H(px	OL CODE	51683	tru	ctions on	OMB N	APPROVED D. 1004-0136
. , ,		F, DATE	6/17/96	, se a	ide)		ebruary 28, 1995
	DUDEA.	4.0	175-3	2457		5. LEASE DESIGNATE NM-812	TION AND SEBIAL NO.
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APPL	CATION FO	-					
	LL & Locati	NEEDENI .				7. UNIT AGREEMEN	T NAMB
OIL X G	ELL OTHER		BINGLE X	MULTIF Zone	PLE	8. FARM OR LEASE NAM	•
NAME OF OPERATOR						Prize Fede	eral
POGO P	roducing Compa	ny				7	
	x 10340, Midla	nd, Texas 7	9702			10. FIELD AND POO	L, OR WILDCAT
4 + = "o.o.o.	eport location clearly an			rements.*)	·		ank Bone Sprin
2310	' FNL & 1980' I	FEL of Sect	ion 27 ./	1 1		11. SEC., T., R., M., AND BURVEY O	OR BLK. R AREA
At proposed prod. xon Same			U.	it 6		•	T-22S, R-32E
	air miles wes			N.M.		Lea Co.	N.M.
5. DISTANCE FROM PROPO LOCATION TO NEARES		16501	16. NO. OF ACRE		17. NO. 0	F ACRES ASSIGNED	
PROPERTY OR LEASE I (Also to Dearest dr);	unit line, if any)	1650 '		6 4 0	1.		<u>,</u>
8. DISTANCE FROM PROF TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	1320'	19. PROPOSED DE 90	00'	20. ROTAL	Rotary	
1. ELEVATIONS (Show who 3644	Ground Level	Ca	rished Contro	Red Water	Ecska	Upon Ap	pproval
3.		PROPOSED CAS	ING AND CEMENT	ING PROGRA	М		
SIZE OF ROLE	GRADE, SIZE OF CASING	WEIGHT PER P	OOT SETT	NG DEPTH		QUANTITY OF CE	MENT
14-3/4"	10-3/4" 3	1.75 32# J	55 H-40	800 '	-1	650 sx (circ	•
9-7/8"		15-4 26# J5		600'	I .	1300 sx (cir	•
6-3/4"	4-1/2"	11.6# J!	S, NBU 9	3 00 * 1000'		1100 sx (41	00.)
6.0	1000/10	ILEAR	To	22.0	/a) a	1980/E	
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	or oil. Specif:						
DRILLING	PROGRAM					.	
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	SULFIDE DRILLII - ROAD MAP	NG OPERATION	NS PLAN				
EXHTRITI R	- EXISTING WEI	LL MAP					***
EXHIBIT C	- LOCATION ANI	ACREAGE D	EDICATION P	LAT - C	-1 DRil	ling Rig LA	1007
EXHIBIT D	- TOPO MAP	, - Co.		33			() () () () () () () () () ()
EXHIBIT E	- 3M BOP EQUII	PMENT	i Alguly s: Lied Ellen ksk				
ABOVE SPACE DESCRIB	E PROPOSED PROGRAM: I	f represal is to deepen.	ि े विश्वेष give data on present and present denths. Gi	productive zone	and proposed	new productive zone.	If proposal is to drill or
epen directionally, give perti I.	nent data on subsurface location	ons and measured and t	rue vertical depris. Of	ve blowold preve	ince programs		
į.	n. c. Rotte fr	TI	п.вА	gent		DATE	5/01/96
(This space for Fede	ral or State office use)						
PERMIT NO.				DATE			
Application approval does to CONDITIONS OF APPROVA	not warrant or certify that the a	pplicant holds legal or e	quitable title to those rig	this in the subject	lease which we	ould entitle the applicant	to conduct operations thereon.
			/				_
APPROVED BY /S/ T	MOTHY J. BURK	(E mle	aliny/	Area Mana	ig er	_ DATEJUN_	1 2 1996
		*C I	ations No Pays	ma Sida			

*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 Hearth States are false for transfer franchises transfer within its inrisdiction.

MAN OR COME COMMISSIONAL PROPERTY OF THE PROPE

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

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

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

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

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

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code Pool Name					
30.025-37	657 3	51683 UNDES. RED TANK BO		BONE	Splings		
Property Code	Property Name						Well Number
13460	PRIZE FEDERAL						7
OGRID No.	Operator Name						Elevation
017891		POGO PRODUCING COMPANY					

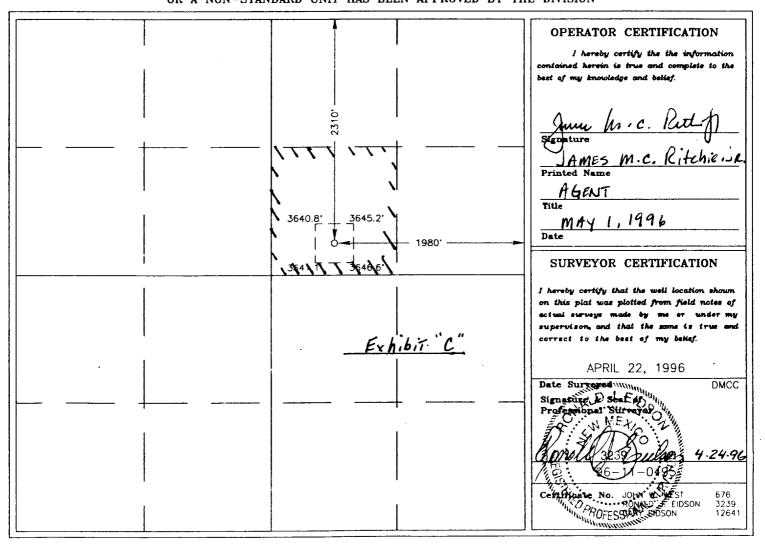
Surface Location

UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
G	27	22 S	32 E		2310	NORTH	1980	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	onsolidation	Code Or	der No.			<u></u> ;	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



DRILLING PROGRAM

Attached to Form 3160-3

Pogo Froducing Company

Prize Federal Well No. 7 2310' FNL & 1980' FEL Unit Letter G, SW/NE Section 27, T22S, R323E Lea County, New Mexico

- 1. Geologic Name of Surface Formation: Permian
- 2. Estimated Tops of Important Geologic Markers and
- 3. Estimated Depths of Fresh Water, Oil, and Gas:

<u>Formation</u>	Depth	Fluid Content		
Anhydrite	800'			
Lamar Lime	4700'			
Cherry Canyon	6100'	Oil		
Brushy Canyon	7400'	Oil		
Bone Springs	8800'	Oil		
Total Depth	9000'			

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 10-3/4" casing at 800' into the Rustler anhydrite and circulating cement to surface. Potash will be protected by setting 7-5/8" intermediate casing at 4600' and circulating cement to surface. 4-1/2" production casing will be set at TD, and cement will be tied back at least 200' into the 7-5/8" intermediate casing, thus ensuring that all zones are adequately isolated.

The pore pressure gradient is normal (+8.4 ppg) down through the Bone Springs. No abnormal pressures are anticipated.



4. Casing and Cementing Program

	Casir	ng		
Hole Size	From	To	Casing OD	Weight, Grade, Coupling, Cond,
* 20"	01	40'	16"	65# H40 used conductor
14-3/4"	0'	800'	10-3/4"	32# J-55 STC new
9-7/8"	0'	4,600'	7-5/8"	26# J55, N-80 LTC new
6-3/4"	0	9,000'	4-1/2"	11.6# J55 & N-80 LTC new

* Setting conductor pipe will be at drilling contractor's option.

All used casing will be drifted and hydrostatically tested to at least 90% of new pipe rating.

Minimum Design Factors: Collapse 1.125, Burst 1.1, Tension 1.7

16" conductor casing set at 40'

Cement to surface with ready-mix. No centralizers.

10-3/4" surface casing set at 800'

The surface casing will be set into the Rustler anhydrite to protect all fresh water formations.

Centralize the bottom 3 joints and every 4th joint to surface. Cement to surface with 450 sx of Class C with 4% gel, 2% CaCl2 (13.5 ppg, 1.74 ft3/sx) followed by 200 sx Class C with 2% CaCl2 (14.8 ppg, 1.32 ft3/sx).

7-5/8" intermediate casing set at 4600'

The intermediate casing will be set within 100' of the top of the Delaware to isolate all salt stringers.

Centralize the bottom 3 joints.

Cement to surface with 1100 sx of 35/65 Pozmix Class H with 6% gel, 5% salt, 1/4# FC (12.8 ppg, 1.94 ft3/sx) followed by 200 sx Class C with 1% CaCl2 (15.6 ppg, 1.19 ft3/sx).

4-1/2" production casing set at TD'

Centralize every joint from TD to bottom of the intermediate casing. Cement to tie back into 8-5/8" intermediate casing at least 200'. A 2-stage cement job will be required with a DV tool at +6000'. Stage 1: 350 sx 50/50 Pozmix Class H with 2% gel, 5% salt, 1/4# FC

(14.2 ppg, 1.34 ft3/sx). Stage 2: 650 sx 50/50 Pozmix Class H with 2% gel, 5% salt, 1/4# FC (14.2 ppg, 1.34 ft3/sx) followed by 100 sx Class H (15.6 ppg, 1.19 ft3/sx).

5. Minimum Specifications for Pressure Control:

9-7/8" hole

The following BOP equipment will be nippled up on the 10-3/4" casing and used continuously until TD is reached for the 9-7/8" hole.

The blowout preventer equipment (BOP) shown in Exhibit E will consist of a 3000 psi WP double ram type preventer and a 3M annular (bag type) preventer with rotating head. Both BOP's will be hydraulically operated. At the drilling contractor's option, 5M BOP's may be substituted. H2S trim will not be required.

Before drilling out from under the 13-3/8" casing, all BOP's and accessory equipment will be tested to 1000 psi with the rig pump. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

BLM method to calculate minimum BOP requirements: (.052)(10 ppg)(4600') - (0.22 psi/ft)(4600') = 1380 psi
Minimum BOP requirements: 2M BOP stack and manifold system

6-3/4" hole

The following BOP equipment will be nippled up on the 7-5/8" casing and used continuously until TD is reached for the 6-3/4" hole.

The blowout preventer equipment (BOP) shown in Exhibit E will consist of a 3000 psi WP double ram type preventer and a 3M annular (bag type) preventer with rotating head. Both BOP's will be hydraulically operated. At the drilling contractor's option, 5M BOP's may be substituted. H2S trim will not be required.

Before drilling out from under the 7-5/8" intermediate casing, all BOP's and accessory equipment will be tested to 1000 psi with the rig pump. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

BLM method to calculate minimum BOP requirements: (.052)(8.4 ppg)(9000') - (0.22 psi/ft)(9000') = 2700 psi Minimum BOP requirements: 3M BOP stack and manifold system

6. Proposed Mud System:

The well will be drilled to TD with a combination of fresh water and 10# brine. The applicable depths and properties of this system are as follows:

<u>Depth</u>	<u>Type</u>	Weight (ppg)	Viscosity <u>(sec)</u>	Water Loss <u>(cc)</u>
0-800'	Fresh water	8.4	28	NC
800-4600'	Brine	10.0	29	NC
4600-TD	Fresh	8.4	28-32	16

Sufficient mud materials to maintain mud properties and meet minimum lost circulation requirements will be kept at the wellsite at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- a) A kelly cock will be kept in the string at all times.
- b) A full opening drill pipe stabbing valve (TIW/inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- c) An electronic pit volume totalizer system will NOT be used. The drilling fluids system will be visually monitored at all times.
- d) A mudlogging unit will be continuously monitoring drilling penetration rate and hydrocarbon shows from 2900' to TD.

8. Logging, Testing, and Coring Program:

- a) Drillstem tests will be run on the basis of drilling shows.
- b) The electric logging program will consist of:
 - 1) 6-3/4" hole Gamma ray, dual induction log, compensated neutron and litho-density logs.
- c) No conventional cores are planned. Selected intervals may be sidewall cored based upon shows and openhole logs.
- d) Further testing procedures will be determined after the 4-1/2" production casing has been cemented at TD.

PRIZE FEDERAL WELL No. 7 DRILLING PROGRAM PAGE 5 OF 5

9. Abnormal Conditions, Pressures, Temperatures, and Potential Hazards:

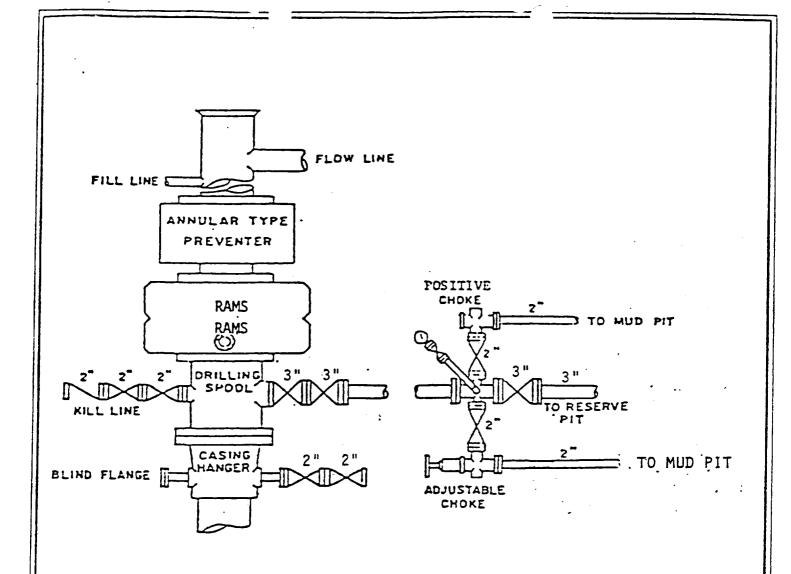
No abnormal pressures, temperatures, or other potential hazard are anticipated.

No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported, or are known to exist at this depth in this area. No major lost circulation zones have been reported in offsetting wells.

The maximum anticipated bottom hole pressure is approximately 3918 psi. (9000' \times .433 psi/ft = 3897 psi.) The maximum anticipated bottom hole temperature is 132 deg F.

10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is June 15, 1996. Once commenced, the drilling operation should be complete in 15 days. If the well is productive, an additional 30 days will be required for completion, testing, and installation of permanent facilities.



BOP STACK

3000 PSI WORKING PRESSURE

Exhibit "E"

BOP ARRANGEMENT