Form 3160-3 (July 1992) N.M. Oll. C UNITED STATES P.O. BOADEPARTMENT OF THE INTERIOR

SUBMIT IN T ICATE* (Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

HOBES, NEBUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO-DRILL OR D	NM-69376 6. IF INDIAN, ALLOTTER OR TRIBE NAME				
	EPEN OF TRIBE NAME				
A TYPE OF WORK	ı				
DRILL DEEPEN	7. UNIT AGREEMENT NAME				
b. TYPE OF WELL					
OIL SAS SINGLE ZONE	MULTIPLE S. FARM OR LEASE NAME, WELL NO.				
NAME OF OPERATOR	FEDERAL 27 WELL NO. 5				
POGO PRODUCING COMPANY ADDRESS AND TELEPHONE NO.	o. ARI WELLING.				
P.O. BOX 10340, MIDLAND, TEXAS 79702	915-682-6822 10. FIELD AND POOL, OR WILDCAT UNDE				
. LOCATION OF WELL (Report location clearly and in accordance with any State requi	west red tank delaware				
1980' FNL AND 990' FWL OF SECTION	27 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA				
At proposed prod. zone	SEC.27, T.22 S., R.32 E				
4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*	12. COUNTY OR PARISH 13. STATE				
30 AIR MILES WEST OF EUNICE, NEW					
5. DISTANCE FROM PROPOSED* LOCATION TO NEAREST 16. NO. OF ACRE	IN LEASE 17. NO. OF ACRES ASSIGNED				
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 990	TO THIS WELL.				
8. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,	H 20. ROTARY OR CABLE TOOLS				
or applied for, on this lease, ft. 1400 ' 900					
1. ELEVATIONS (Show whether DF, RT, GR, etc.)	rolled Water Basin UPON APPROVAL				
3.					
PROPOSED CASING AND CEMEN	IG PROGRAM				
	G DEPTH QUANTITY OF CEMENT				
· · · · · · · · · · · · · · · · · · ·	00' SUFFICIENT TO CIRCULATE 00' SUFFICIENT TO CIRCULATE				
	OO' SUFFICIENT TO CIRCULATE TO TIE BACK 200' INTO 8-5/8"				
AFTER SETTING PRODUCTION CASING, PA AND STIMULATED AS NECESSARY. SEE ATTACHED FOR: SUPPLEMENTAL DRI BOP SKETCH SURFACE USE AND HYDROGEN SULFIDE	LING DATA				
OPER. OGRID NO	7991				
PROPERTY NO.	9325				
Approval Subject to	11-99				
SPONSON PARISMAN CONTRACTOR COM					
Special Stipulations EFF. DATE	9-95				
APINO. SUF7)	5-327()				
N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present eepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. G	blowout preventer program, if any.				
signed Luhand Dight TITLE Divisio	Operations Mgr. DATE November 30, 199				
(This space for Federal or State office use)					
PERMIT NO APPROVAL	ATE				
Application approval does not warrant or certify that the applicant holds legal or equitable title to those r	ts in the subject lease which would entitle the applicant to conduct operations there				
CONDITIONS OF APPROVAL, IF ANY:					
AREA M	NAGER - 1 - 1 - 1				
APPROVED BY TIME	NAGEN 12/20/94				

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

State of New Mexico

Rnergy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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

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

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		
30-025-327	47 51689	7 51689 UNDES. WEST RED TANK DELAW,		
Property Code	Pro	Well Number		
4325	FEC	5		
OGRID No.	Op	Elevation		
17891	POGO PRO	3619'		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	27	22 S	32 E		1980	NORTH	990	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section To	ownship	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Ir	nfill Con	solidation C	ode Or	ier No.			<u> </u>	<u> </u>
40	N								

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

		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
1980,		Fisher S. Drift
36 21.8' 36 22.6'		Richard L. Wright Printed Name
990'		Division Operations Mgr. November 30, 1994
3621.6' 3620.5'		SURVEYOR CERTIFICATION
		I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my
		supervison and The who same is true and correct of that feet of meropains.
		DATA SESONOL SHOOL SHOOL & SELFOL
		Progrational Supplyor
		W.S. JOHN W. WEST. 676
		Certificate No. JOHN W. WEST, 676 RONALD J. EIDSON, 3239

OFFICE BS

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY FEDERAL 27 WELL NO.5

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Anhydrite	800'
Delaware Lime	4700 1
Cherry Canyon	6100'
Brushy Canyon	7400'
Bone Springs	8800'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware

Oil

4. PROPOSED CASING AND CEMENTING PROGRAM:

_	SETTING DEP	TH			
CASING SIZE	FROM	TO	WEIGHT	GRADE	JOINT
13-3/8"	0	800'	54.5#	J-55	STC
8-5/8"	0 4300'	4300' 4500'	32# 32#	J-55 S-80	STC STC
5-1/2" " MINIMUM	0 1000' 7000'	1000' 7000' 9000'	17# 17# 17#	N-80 J-55 N-80	LTC LTC LTC
DESIGN FACTORS:	COLLAPSE_	1.1 BU	RST1.1	TENSION	1.2

13-3/8" casing to be cemented with 500 sacks of light cement tailed in with 200 sacks of Class "C" with 2% CaCl. Cement to circulate.

8-5/8" casing to be cemented with 1200 sacks of light cement with 10% salt tailed in with 200 sacks of premium cement with 1% CaCl. Cement to circulate.

5-1/2" production casing is to be cemented with approximately 500 sacks

of light cement followed by 400 sacks of premium cement. Cement to tie back to 3600 feet.

If, during drilling operations, need for stage cementing of casing is indicated, staging tool(s) will be run and positioned to best suit hole conditions at time casing is run.

Cement volumes may be adjusted and cement may have lost circulation and/or other additives depending on hole conditions at the time casing is run.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling the 11" hole, will be either a 3000 psi working pressure double ram type preventer or a 3000 psi working pressure annular type preventer.

Blow out prevention equipment, while drilling below the 8-5/8" casing seat, will be a 3000 psi working pressure BOP stack. A BOP sketch is attached.

CIRCULATING MEDIUM:

Fresh water base fluid with gel and paper sweeps Surface to 800 feet:

for hole cleaning.

Mud wgt 8.4 ppg - 8.6 ppg

Viscosity 28 - 32 seconds per quart.

800 feet to 4500 feet: Brine water base fluid with salt gel and paper

sweeps for hole cleaning. Mud wgt 10.0 ppg - 10.2 ppg

Viscosity 28 - 32 seconds per quart.

Fresh water base fluid with gel and paper sweeps 4500 feet to T.D.:

for hole cleaning.

Mud wgt 8.4 ppg - 8.6 ppg

Viscosity 28 - 32 seconds per quart.

7. AUXILIARY EQUIPMENT:

A mud logging trailer will be in use while drilling below the interdediate casing.

8. TESTING, LOGGING, AND CORING PROGRAM:

Drill stem tests will be made when well data indicate a test is warranted.

It is planned that electric logs will include GR-CNL-Density logs and GR-DLL logs.

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES, OR HYDROGEN SULFIDE GAS:

No abnormal pressures or temperatures are expected.

Expected bottom hole pressure is about 3600 psi.

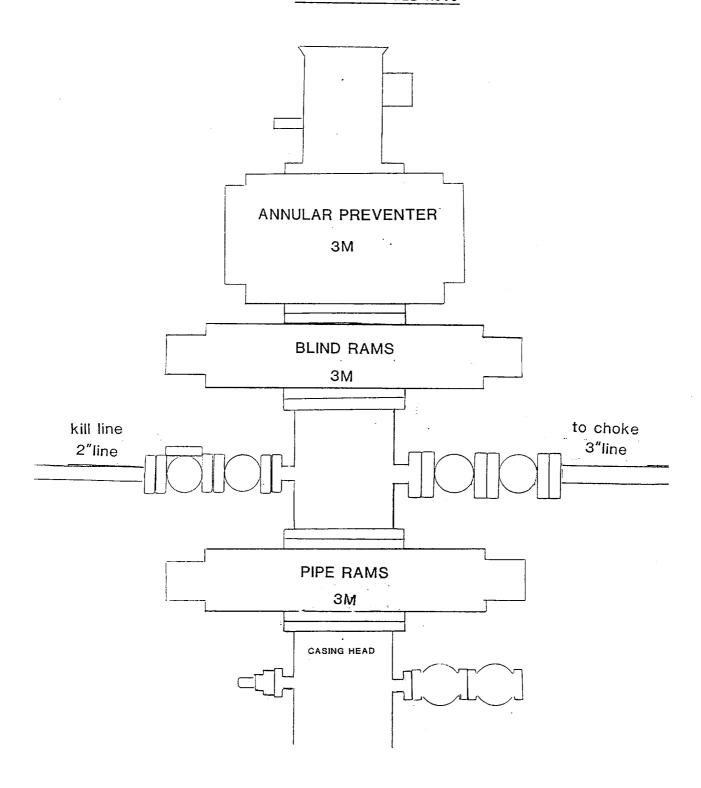
Expected bottom hole temperature is about 125 degrees Fahr.

No hydrogen sulfide gas is expected. The production stream of Pogo Producing Company's wells in this area have been tested specifically for hydrogen sulfide gas and test results were negative. However, since it is possible that low-volume hydrogen sulfide gas may be present in permeable water zones of the Castile formation, drilling operations below the surface casing will be in accordance with the attached "HYDROGEN SULFIDE DRILLING OPERATIONS PLAN" until intermediate casing is set and cemented and this possible source of hydrogen sulfide gas is cased off.

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.

POGO PRODUCING COMPANY FEDERAL 27 WELL NO.5





JAMES OFFICE