Form 3160-3 (July 1992)		ITED STATES	, NE	(Other instru reverse		OMB NO. 1004-0136 Expires: February 28, 19	95
(low 5) 1	BUREAU OF LAND MANAGEMENT					5. LEASE DEBIGNATION AND BEE NM-90586	IAL NO.
				L OR DEEPEN		6. IF INDIAN, ALLOTTEE OR TRIB	ENAME
1a. TYPE OF WORK		DEEPEN [<u></u>		7. UNIT AGBEEMENT NAME	
	AS OTHER					⁶ LIVINGSTON RTDGE	
	POGO PRO	DUCING COMPA	NY_			8 FEDERAL WELL NO. 9. API WELL NO.	<u>. 3</u>
3. ADDRESS AND TELEPHONE NO.	P. O. B(<u>)X 10340, MI</u>	DLAN	<u>D, TEXAS 79702</u>		10. FIELD AND POOL OR WILDO	
4. LOCATION OF WELL (R At surface						-WILDCAT BASIN	Idne-Sp
At proposed prod. zon		L AND 330' F	EL OF	Unit A	7	SEC.8, T.22 S., R	.32 E.
14. DISTANCE IN MILES						12. COUNTY OR PARISH 13. ST	
15. DISTANCE FROM PROPO	SED*	S WEST OF EU		NEW MEXICO		OF ACRES ASSIGNED	MEXICO
LOCATION TO NEAREST PROPERTY OR LEASE I (Also to dearest drig	C .IN E, F T.	330'		440	TOT	this will 40	
18. DISTANCE FROM PROF TO NEAREST WELL, D	OSED LOCATION* RILLING, COMPLETED,		19. FI	10 100	20. ROT.	ARY OR CABLE TOOLS	
OR APPLIED FOR, ON TH 21. ELEVATIONS (Show who		1880'		10,100'	<u> </u>	ROTARY 22. APPROX. DATE WORK WILL START*	
		3732' GR			····	UPON APPROVAL	
23.	_	PROPOSED CASI	NG ANI	CEMENTING PROGR	AM	Secretary's Potash	
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER F	DOT	SETTING DEPTH		QUANTITY OF CEMENT	
<u> </u>	<u>13-3/8"</u> 8-5/8"	<u>54.5#</u> 32#		800' 4500'		<u>ICIENT TO CIRCULATE</u>	
7-7/8"	5-1/2"	17#		10,100'	T 0 T	IE BACK 200' INTO 8	-5/8"
AFTER SETTING PRODUCTION CASING, PAY ZONE WILL BE PERFORATED AND STIMULATED AS NECESSARY. SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA BOP SKETCH SURFACE USE AND OPERATIONS PLAN HYDROGEN SULFIDE DRILLING OPERATIONS <u>PLAN</u>							
OPER OGRID NO. 17841							
MAR 11 1500 PROPERTY NO. 15866 POOL CODE 5695							
EN.M. SI							
EFF. DATE				17.37001			
API NO. <u>30-025-32681</u> IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or					to drill or		
deepen directionally, give perti	inent data on subsurface loch	tions and measured and t	rue vertio	al depths. Give blowout prev	venter program	, if any.	
	mandhau			Division Operat	ions Mc	Ir. March 13,	1995
PERMIT NO.	ral or State office use)	applicant holds legal or eq		APPROVAL DATE		APPROVAL SUBJECT TO GENERAL REQUIREMEN would SPECIAL PISTIPULATION ATTACHED	U SAND
APPROVED BY 5	fichard A.	Whithy TITLE *See Instru) et St ctions	<u>nto Ducel</u> On Reverse Side	[m	DATE 5/22/95	

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CREAR DORRENCE

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Web Jack

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Charles I

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

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

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 State of New Mexico

Energy, 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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

			WELL LU	JUATION	AND ACREA	GE DEDICATI	ON PLAT		
1-	Number 5-32	981 5695 WILDEAT Bilbrey Basim BS					5		
Property 1581			Property Name LIVINGSTON RIDGE 8 FEDERAL 3					iber	
	en l	<u> </u>						Elevatio	
17891				POG	O PRODUCIN			3732	
		L			Surface Loca	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
А	8	22 S	32 E		990	NCRTH	33	EAST	LEA
		k	Bottom	Hole Loo	cation If Diffe	rent From Sur	face	1	I
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	L		<u> </u>	<u> </u>			<u>.</u>		
Dedicated Acre 40	s Joint c N	r Infill Co	onsolidation	Code Or	der No.				
NO ALLO	WABLE V	OR A I	SSGNED T	O THIS O	COMPLETION U	NTIL ALL INTER APPROVED BY	ESTS HAVE BE	EN CONSOLIDA	TED
	1						OPERATO	DR CERTIFICAT	TION
	1		2 ! hereby certify the the informat				formation		
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					ł	374	Richard Printed Nam	L. Wright	
	1				1			-	Man
	I				I		Title	<u>Operations</u>	ngr.
							March	15, 1995	
							Date		
	 				↓		SURVEYO	OR CERTIFICAT	ION
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					ł			as plotted from field made by me or	•
	1						supervison, an	d that the same is a best of my belief	true and
							MAF	RCH 3, 1995	
							Date Surveye		JLF

	correct to the best of my belief.
	MARCH, 3, 1995
	Date Surveyed J. Frank JLP
+	Signature & Seal of.
i l	Professional Surveyor
1	the fille of n
1	0 moll . Culture 3-06-95
1	W.O. Num-95-11-0311
1	Certificate No. JOHN W. WEST, 676
	TRONALD ST EIDSON, 3239
1	1

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY

LIVINGSTON RIDGE 8 FEDERAL WELL NO.3

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Anhydrite	800'
Delaware	4650 '
Cherry Canyon	5600'
Brushy Canyon	7300'
Bone Springs	8600'

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3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delav	vare	0i1
Bone	Springs	0i1

4. PROPOSED CASING AND CEMENTING PROGRAM:

	SETTING DEP	ТН			
CASING SIZE	FROM	<u>T0</u>	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"	0 1000' 7000'	1000' 7000' 10,100'	17# 17# 17#	N-80 J-55 N-80	LTC LTC LTC
MINIMUM DESIGN FACTORS:	COLLAPSE_	1.125 BU	RST_1.1	TENSION	1.7

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 700 sacks

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of light cement followed by 400 sacks of premium cement. Cement to tie back 200' into the 8-5/8" casing.

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 psiworking pressure BOP stack. A BOP sketch is attached.

6. CIRCULATING MEDIUM:

Surface to 800 feet:	Fresh water spud mud. Viscosity 30 to 36 as required for hole cleaning.
800 feet to 4500 feet:	Brine conditioned as necessary for control of viscosity. Weight 9.8 to 10. pH 9 to 10. Viscosity 32 to 36.
f W	ater base drilling fluid conditioned as necessary or control of weight, viscosity, pH and water-loss eight 9 to 10. Viscosity 38-45. pH 9 to 10. iltrate while drilling pay zone 6 to 15.

7. AUXILIARY EQUIPMENT:

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



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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 4100 psi.

Expected bottom hole temperature is about 135 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 LIVINGSTON RIDGE 8 FEDERAL WELL NO.3



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