Form 3160-3 (July 1992)	DEPARTMEN	TED STATES T OF THE INT	N.M. 944.9	Avenu	OMB NO. 1004-0136		
	BUREAU OI	LAND MANAGE	Artesia, NM	88210	NM-100852		
APPL			ILL OR DEEPEN		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
b. TIPE OF WELL		DEEPEN 🗌			7. UNIT AGREEMENT NAME		
	VELL OTHER		ZONE XX ZONE		S. FARM OR LEASE NAME WELL NO.		
POGO PRODUCIN	IG COMPANY	(RICHARD WR	LIGHT 915-685-814	0)	MCGWIRE "11" FEDERAL # 1		
	0 MIDLAND, TEX		(915-695-8100)		30-01.5-32897		
At surface	and the second deal of the secon		-		BRUSHY DRAW-DELAWARE NORTH 11. BBC., T., E., M., OF BLK. AND BURYET OF AREA SECTION 11 T26S-R29E		
Approximatel	AND DIRECTION FROM NEA y 16 miles South				12. COUNTY OF PARISE 13. STATE EDDY CO. NEW MEXICO		
 DISTANCE FROM PROP LOCATION TO NEARES PROPERTI OR LEASE I (Also to Bearest drig) 	T LIN I, FT .	.330'	NO. OF ACEES IN LEASE 440		F ACEES ASSIGNED		
OR APPLIED FOR, ON TH	RILLING. COMPLETED. 18 LEASE, FT.	NTA L	FROPOSED DEPTH 5500'	1 .	AT OR CABLE TOOLS		
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)	2992' GR.			22. APPROL DATE WORK WILL START* WHEN APPROVED		
23.		PROPOSED CASING A	ND CEMENTING PROGRA	м СА	RLSBAD CONTROLLED WATER BASIN		
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITS OF CEMENT		
25" WITNESS 124"	Conductor	NA	40'		to surface with Redi-mix.		
	<u>J-55 8 5/8"</u>	32			. Circulate cement to surface		
7_7/8"	J-55 5 ¹ 2"	15.5	5500'	1500 5	x. cement in 3 stages "		
				1			
 Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix. Drill 12½" hole to 600'. Run and set 600' of 8 5/8" 32# J-55 ST&C casing. Cement with 655 Sx. of Class "C" cement + 2% CaCl, + ½# Flocele/Sx. Circulate cement to surface. Drill 7 7/8" hole to 5500'. Run and set 5500' of 5½" 15.5# J-55 ST&C casing. Cement in three stages, place DV Tools at 4000'± and 2000'±. Cement lst stage with 400 Sx. of Class "C" cement + additives, cement 2nd stage with 600 Sx. of Class "C" cement 							
 + additives, cement 3rd stage with 500 Sx. of Class "C" cement + additives, circulate cement to surface. APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and productive zone. If proposal is to drill or pen directionally, give perturbent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. 							
SIGNED		ica TITLE	0122		DATE 06/11/03		
(This space for Feder	al or State office use)			2003			
		icant holds legal or equitable	sile to those the in the let of the	VED TESIA	t_{ij} :		
Approved by	/s/ Joe G. Lara	πτ.ε *See Instructions	FIELD MANA S On Reverse Side	GER	DATE 21 JUL 2003 APPROVAL FOR 1 YEAR		

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	*See	Instru	ctions	On	Rev	erse	Sid	e	

e 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make a

P.O. Box 1980, Robbs, NM 88241-1980		Form C-102 Energy, Minerals and Natural Resources Department Revised February 10, 1994									
DISTRICT II P.O. Drawer DD, Artonia, NM 88211-0719		OIL CONSERVATION DIVISION P.O. Box 2088					Submit ION	Submit to Appropriate District out			
DISTRICT III 1000 Rio Brazos Ed		Santa F			o 87504–2088						
DISTRICT IV P.O. BOX 2000, SANTA	FE, N.M. 876	504-2088	WELL LO	CATION	AND	ACREA	.GE DEDICATI	ON PLAT	AMENDED	REPORT	
API N	lumber		1	Pool Code		1		Pool Name			
			808	35			HY DRAW DELAN	WARE-NORTH			
Property C			Property Name MCGWIRE 11 FEDERAL						1	Well Number 1	
OGRID No. 17891			1	POGO I	-	rator Nam CING	e COMPANY		Elevatio 2992		
					Surfa	ice Loca	ation				
UL or lot No.	Section	Township	Range	Lot Idn	1	rom the	North/South line	Feet from the	Bast/West line	County	
	11	26-S	1			50' 	SOUTH	330'	WEST	EDDY	
UL or lot No.	Section	Township	Bottom Range	Hole Lo		If Diffe	rent From Sur	face Feet from the	East/West line	County	
UL OF IGUNG.	360404		nabge		reet n	om die	Norchy South mile	reet from the	Past, acar mite	county	
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Or	der No.	<u></u>	I	I		<u> </u>	
NO ALLO	WABLE W						NTIL ALL INTER APPROVED BY		EN CONSOLIDA	ATED	
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				<u> </u>				SURVEYO	R CERTIFICAT	TION	
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600' 		LONG. 103				i .		Jur	ne 06, 2003		
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State of New Mexico

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Certificate No. BONALD J. EDSON

3239 12641

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DISTRICT I

EXHIBIT "A"

LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

SEC. <u>11</u> TWP.<u>26-S</u> RGE. <u>29-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1650' FSL & 330' FWL</u> ELEVATION <u>2992'</u> OPERATOR <u>POGO PRODUCING COMPANY</u> LEASE <u>McGWIRE 11 FEDERAL</u> U.S.G.S. TOPOGRAPHIC MAP ROSS RANCH, N.M. CONTOUR INTERVAL: 10' ROSS RANCH, N.M.

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

APPLICATION TO DRILL

POGO PRODUCING COMPANY McGWIRE "11" FEDERAL # 1 UNIT "L" SECTION 11 T26S-R29E EDDY CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

- 1. Location of well: 1650' FSL & ³³⁰' FWL SECTION 11 T26S-R29E EDDY CO. NM
- 2. Ground Elevation above Sea Level: 2992' GR.
- 3. Geological age of surface formation: Quaternary Deposits:
- 4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium to remove solids from hole.
- 5. Proposed drilling depth: 5500'
- 6. Estimated tops of geological markers:

Base of salt	2800'	Bell Canyon	3080'
Delaware Lime	2990'	Brushy Canyon	5200 '

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7. Possible mineral bearing formations:

Bell Canyon	0 i 1
Brushy Canyon	Oil

8. Casing Program:

Hole Size	Interval	OD of Casing	Weight	Thread	Collar	Grade
25"	0-40	20"	NA	NA	NA	Conductor
12 ¹ 2''	0-600'	8 5/8"	32	8-R	ST&C	J-55
512"	0-5500'	5 ¹ 2''	15.5	8-R	ST&C	J-55

APPLICATION TO DRILL

POGO PRODUCING COMPANY McGWIRE "11" FEDERAL # 1 UNIT "L" SECTION 11 T26S-R29E EDDY CO. NM

9. CASING SETTING DEPTHS & CEMENTING:

- 20" Conductor Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
- 8 5/8" Surface Set 600' of 8 5/8" 32# J-55 ST&C casing. Cement with 655 Sx. of Class "C" cement + 2% CaCl, + ½# Flocele/Sx. Circulate cement to surface.
- 5¹/₂" Production Set 5500' of 5¹/₂" 15.5# J-55 ST&C casing. Cement in 3 stages, DV Tools at 4000'± and 2000'±. Cement 1st stage with 400 Sx. of Class "C" cement + additives, 2nd stage cement with 600 Sx. of Class "C" cement + additives, Cement 3rd stage with 500 Sx. of Class "C" cement + additives, circulate cement to surface.

10. PRESSURE CONTROL EQUIPMENT:

Exhibit "E" shows a 2000 PSI double ram B.O.P. with a rotating head in leiu of an annular preventor. The drilling rig that will be used to drill this well is unable to accomadate an annular preventor because of the sub-structure. No abnormal pressures are expected in this well. The B.O.P. will be rigged up on the 8 5/8" casing. Exhobit "E-1" shows a hydraucally operated closing unit and choke manifold. A full opening stabbing valve and upper kelly cock will be utilized.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-600'	8.4-8.7	29-34	NC	Fresh water spud mud use paper if necessary to control seepage.
600-5500	10.0-10.2	29-38	NC*	Brine water use paper control seepage and high viscosity sweeps to clean hole.
* If water loss	control is neede	d to conditio	n hole for	

DST's, running logs or casing use a Polymer mud system.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run logs, DST's, and casing the viscosity and water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

POGO PRODUCING COMPANY McGWIRE "11" FEDERAL # 1 UNIT "L" SECTION 11 T26S-R29E EDDY CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Run Dual Laterlog SNP, LDT, Gamma Ray, Caliper from TD to the 8 5/8" casing shoe. Cased hole logs: Run Gamma Ray, Neutron from 8 5/8" casing shoe to surface, Run collar locator log and gamma Ray in order to perforate well in the proper zone.
- B. Mud logger may be placed on the hole at the Geologist's request and DST's and cores may be taken as shows dictate.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of H^2S in this area. If H^2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 2600 PSI, and Estimated BHT 135°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take <u>10</u> days. If production casing is run then an additional <u>30</u> days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The <u>Delaware</u> formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an oil well.

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazzards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 2. H₂S Detection and Alarm Systems
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.

3. Windsock and/or wind streamers

- A. Windsock at mudpit area should be high enough to be visible.
- B. Windsock at briefing area should be high enough to be visible.
- C. There should be a windsock at entrance to location.
- 4. Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well control equipment
 - A. See exhibit "E" & "E-1"

6. Communication

- A. While working under masks chalkboards will be used for communication.
- B. Hand signals will be used where chalk board is inappropriate.
- C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
 - A. Exhausts will be watered.
 - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
 - C. If the location is near to a dwelling a closed DST will be performed.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H₂S scavengers if necessary.







FIGURE K1-1. Recommended IADC Class 2 BOP stack, 2000 psi WP. Either SRd (left) or SA (right) arrangement is acceptable and drilling spool is optional.

EXHIBIT SKETCH OF B.O.P.	USED	ON
POGO PRODUCI McGWURE "11" UNIT "L" T265-R29E	L # 1 ON 11	











EXHIBIT "E-1" CHOKE MANIFOLD & CLOSING UNIT POGO PRODUCING COMPANY McGWIRE "11" FEDERRL # 1 UNIT "L" SECTION 11 T26S-R29E EDDY CO. NM