Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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DISTRICT I P.O. Box 1980, Hobbs, NM \$8240

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

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

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances	must be	from the outs	er boundaries	of the section
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Integration Description 94# 675' SUFFICIENT TO CIRCULATE 17-1/2" 13-3/8" 54.5, 61 & 68# 4400' SUFFICIENT TO CIRCULATE 12-1/4" 9-5/8" 40, 43.5 & 47# 11,750' 1000 SACKS 8-1/2" 7-5/8" Liner 39# 11,550-14,770' 1000 SACKS 6-1/2" 5-1/2" Liner 39# 14,600-15,300' 150 SACKS AFTER SETTING PRODUCTION CASING, PAY ZONE WILL BE PERFORATED AND for <i>TD-1</i> STIMULATED AS NECESSARY. <i>b -15-90</i> SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA BOP SKETCHES BOP SKETCHES SURFACE USE AND OPERATIONS PLAN More Line 4 HP.T. BOP SKETCHES SURFACE USE AND OPERATIONS PLAN HI GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED HI GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED HI Gene if proposal is to deepen directionally, give pertinent data on subsurface locations and measured and true vertical deptiles. Give blowout Y ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive some and proposed new productive precember productive some and proposed new productive precember program. If any. Y ABOVE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive some and proposed new producti	23.			PROPOSED CAS	ING AND	CEMENTING PROGRAM	4				
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*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 United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SUPPLEMENTAL DRILLING DATA

BETTIS, BOYLE & STOVALL WELL NO.1 LOTOS "B" FEDERAL

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Salado 900' Delaware 4400' Cherry Canyon 5200' Brushy Canyon 7180'	Wolfcamp Strawn Atoka	11,050' 11,510' 13,520' 13,710' 14,190' 14,790' 15,230'
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3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Morrow Gas

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DE FROM	<u>РТН</u> 	WEIGHT	GRADE	JOINT
20"	0	675'	94#	J-55	BUTT
13-3/8"	0 1900' 3500'	1900' 3500' 4400'	54.5# 61# 68#	K-55 S-80 S-80	STC STC STC
9-5/8" " "	0 2100' 4000' 6200' 9700'	2100' 4000' 6200' 9700' 11,750'	40# 40# 43.5# 47#	N-80 N-80 S-80 S-95 S-95	BUTT LTC STC LTC LTC
7-5/8" Liner 5-1/2" Liner	11,550' 14,600'	14,770' 15,300'	39# 23#	P-110 P-110	LTC LTC

20" casing will be cemented with approximately 725 sacks of Class "C" Light w/ 2% CaCl followed by 500 sacks of Class "C" with 2% CaCl.

13-3/8" casing will be cemented with approximately 3100 sacks of Class "C" Light followed by 500 sacks of Class "C".

9-5/8" casing will be cemented with approximately 1000 sacks of 50/50 POZMIX.

7-5/8" liner will be cemented with 520 sacks of Class "H".

5-1/2" liner will be cemented with 150 sacks of Class "H".

Equivalent or better grades and weights of casing may be substituted at time casing is run, depending on availability.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment while drilling the 17-1/2" hole will be either a 2000 psi working pressure double ram type preventer or a 2000 psi working pressure annular type preventer.

BOP sketches are attached showing equipment to be in use while drilling below the 13-3/8" casing seat.

6. CIRCULATING MEDIUM:

Surface to 675 feet: Fresh water.

675 feet to 4400 feet: Brine.

<u>4400 feet to total depth</u>: Water base drilling fluid conditioned as necessary for control of viscosity, pH, seepage and water-loss. Weighted as necessary for well control.

7. AUXILIARY EQUIPMENT:

Mud logging trailer to be in use while drilling below the intermediate casing.

Geolograph from surface to total depth.

8. TESTING, LOGGING, AND CORING PROGRAMS:

Drill stem tests will be made when samples, drilling time, and other data indicate a test is warranted.

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

No coring is planned.