

# APPLICATION TO DRILL

POGO PRODUCING COMPANY  
STERLING SILVER "33" FEDERAL # 16  
UNIT "I" SECTION 33  
T23S-R31E EDDY CO. NM

## 9. CEMENTING CASING & SETTING DEPTH:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
10 3/4"	Surface	Set 600' of 10 3/4" 32.75# H-40 ST&C casing. Cement with 550 Sx. of Class "C" cement + additives. Circulate cement to surface.
7 5/8"	Intermediate	Set 4100' of 7 5/8" J-55 26.40# ST&C casing. Cement with 1000 Sx. of Class "C" cement + additives, circulate cement to surface.
4 1/2"	Production	Set 8400' of 4 1/2" 11.60# J-55 LT&C casing. Cement in three stages. DV Tools set at 6000' & 4000'±. Cement with 1500 Sx. of Class "H" cement + additives, circulate cement to surface.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" A 1500 Series 5000 PSI working pressure B.O.P. consisting of a double ram type preventor with a bag type annular preventor. B.O.P. will be hydraulically operated. Exhibit "E-1" shows choke manifold & closing unit. B.O.P. will be nipped up on 10 3/4" casing and will be operated at least once each 24 Hr. period while drilling and blind rams will be worked when out of hole on trips. Flow sensor, PVT, full opening stabbing valve and upper kelly cock will be utilized. No abnormal pressure or temperature is expected while drilling.

## 11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD
40-600'	8.5-8.9	30-38	NC	Fresh water using paper to control seepage.
600-4100'	10.2-10.6	30-40	NC	Brine water use paper to control seepage and high viscosity sweeps to clean hole.
4100-8400	8.6-8.9	30-40	NC	Fresh water using paper to control seepage and high viscosity sweeps to clean hole.

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