

POGO PRODUCING COMPANY
 COVINGTON "A" FEDERAL # 39
 UNIT "A" SECTION 26
 T22S-R32E LEA CO. NM

9. CEMENTING & SETTING DEPTH:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface	Set 850' of 13 3/8" 48# H-40 ST&C casing. Cement with 850 Sx. of Class "C" cement + 1/4# Flocele/Sx. + 2% CaCl, circulate cement to surface.
8 5/8"	Intermediate	Set 4700' of 8 5/8" 32# J-55 ST&C casing. Cement with 1800 Sx. of Class "C" cement + additives, circulate cement to surface.
5 1/2"	- Production	- Set 9200' of 5 1/2" casing as follows: 2200' of 5 1/2" 17# N-80 LT&C, 6000' of 5 1/2" 17# J-55 LT&C, 1000' of 5 1/2" 17# N-80 LT&C. Cement in two stages, 1st stage cement with 650 Sx. of Class "H" cement + additives, 2nd stage cement with 800 Sx. of Class "H" + additives. Set stage tool at 6000'±, estimate top of cement 3700' FS.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E". A Series 900 3000 PSI working pressure B.O.P. consisting of a double ram type preventor with a bag type annular preventor. The B.O.P. unit will be hydraulically operated. Exhibit "E-1". Choke manifold and closing unit. The B.O.P. will be nipped up on 13 3/8" casing and will be operated at least once each 24 hour period while drilling and blind rams will be operated when out of hole on trips. 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 System
40-850'	8.4-8.8	29-34	NC	Fresh water spud mud, use paper to control seepage and high viscosity sweeps to clean hole.
850-4700'	10.1-10.3	29-38	NC	Brine water add paper to control add lime to control pH, use high viscosity sweeps to clean hole.
4700-9200'	8.4-8.7	29-40	NC	Fresh water using high viscosity sweeps to clean hole and add Polymers to system if water loss is required.

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