APPLICATION TO DRILL

POGO PRODUCING COMPANY
COVINGTON "A" FEDERAL # 21
UNIT "P" SECTION 26
T22S-R32E LEA CO. NM

9. Cementing and Setting Depth:

20" Conductor	Set 40' of 20" conductor & cement to surface with Redi-Mix.
10 3/4" Surface	Set 800' of 10 3/4" casing cement with 600 Sx. Class "C" + additives circulate to surface.
7 5/8" Intermediate	Set 4600' of 7 5/8" casing cement with 800 Sx. Halco Light + additives, tail in with 500 Sx. Premium cement C additives circulate to surface.
4½" Production	Set 9000' of casing cement with 500 Sx. Halco Light + additives, tail in with 450 Sx. Premium Plus + additives Top cement 3600'.

10. Pressure Control Equipment: Exhibit "E". A Blow-out Preventer (no less than 900 series 3000 psi working pressure) consisting of double ram type preventer with bag type preventer. Units will be hydraulically operated. Exhibit "E-1" Choke Manifold and Closing Unit. Blind rams on top, pipe rams on bottom to correspond with size of drill pipe in use. BOP will be nippled up on 10 3/4"casing and remain on well until casing is run and cemented. BOP will be tested as well as choke manifold. BOP will be worked at least once each day while drilling and blind ram will be worked on trips when no drill pipe is in hole. Flow sensor PVT, full opening stabbing valve and upper kelley cock will be utilized. No pressures greater than 3700 psi anticipated.

11. Proposed Mud Circulating System:

Depth	Mud Wt.	Mud Visc.	Fluid Loss	Type Mud
0-800'	8.4-8.6	29-36	NC	Fresh water spud mud Paper to control seepage
800-4600'	10-10.6	28-30	NC	Brine water use paper for seepage and lime for pH control
4600-9000'	8.4-8.6	28-36	NC	Fresh water Use fresh water Gel for viscosity and paper for seepage control.