

MARALO LLC.
 GOLD RUSH "30" FEDERAL # 6
 UNIT "A" SECTION 30
 T23S-R30E EDDY 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 650' of 13 3/8" K-55 54.5# ST&C casing. Cement with 800 Sx. of Class "C" cement + 2% CaCl, circulate cement to surface.
8 5/8"	Intermediate	Set 3100' of K-55 32# J-55 ST&C casing. Cement with 800 Sx. of Halco Light, tail in with 250 Sx. of Class "C" + additives, circulate cement to surface.
5 1/2"	Production	Set 7700' of 5 1/2" K-55 17 & 15.5# ST&C casing. Cement with 300 Sx. of Halco Light + 300 Sx. of Class "C" + 2% CaCl, tail in with 900 Sx. of 50/50 POZ. Estimate top of cement 2900'.

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
40-650	8.3-8.9	32-36	NC	Fresh water Spud mud add paper to control seepage.
650-3100'	10.0-10.2	28-32	NC	Brine water add paper for seepage control.
3100-6900'	8.4-8.9	29-34	NC	Fresh water add paper to control seepage and high visc. sweeps to clean hole.
6900-7700'	8.4-8.9	32-40	10 cc or less	Fresh water add Gel for visc. Starch for fluid loss control.

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.