

DRILLING PROGRAM
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Safe Factor
OK

4. Casing Program:

Hole Size	Interval	OD csg	Weight, Grade, Jt. Cond. Type	WWT	BHP psi
12 1/4"	0 - 450"	8 5/8"	24# J-55 LTC NEW R-3	8.5	
7 7/8"	0 - TD	5 1/2"	17# J-55 LTC NEW R-3	10.2	3182
		1.5	$C_R = 4910 - OK$		
		2.6	$B_R = 5320 - OK$		

Cement Program:

8 5/8" Surface Casing:

Cemented to surface with 300sx of Class C w/2% cc.

5 1/2" Production Casing:

Cement string sufficient to cover 200' above all oil and gas horizons.

5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (3000 psi wp) preventer. This unit will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. This BOP will be nipped up on the 8 5/8" surface csg and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 1000 psi before drilling out of surface casing.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and a 3" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 3000 psi WP rating.

$6000 \times .4 = 2400 - (22)6K \quad 1320 = 1080 - OK$

