

HOLE PROGNOSIS
CORSAIR 27 FEDERAL #5
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4. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight, Grade, JT. Cond, Type</u>
17 1/2"	0-600'	13 3/8"	48#, H-40, ST&C
11"	0-4700'	8 5/8"	24# & 32#, J-55, S-80, LT&C
7 7/8"	0-TD	5 1/2"	17# J-55, N-80 LT&C

5. Cementing Program:

- Surface Casing: 13 3/8" casing will be set at approximately 600' and cemented with approximately 650 sacks of Premium Plus cement with 2% CaCl and additives. The amount may be adjusted depending upon the fluid caliper results, however, cement in sufficient quantities to circulate will be utilized.
- Intermediate Casing: 8 5/8" casing will be set at approximately 4700' and cemented with approximately 1500 sacks of 35/65 Poz "c" with additives. The amount may be adjusted dependent upon fluid caliper results, however, cement in sufficient quantities to circulate will be utilized.
- Production Casing: If appropriate, 5 1/2" casing will be set at Total Depth. Echo will utilize cement in sufficient quantities to tie back 600' above any Delaware pay. Well will be cemented w/appropriate number of sacks of 50/50 POZ 'H' w/ additives and 100 sacks of 'C' Neat.