## B. Proposed Cement Program:

| CASING                                    |                                      | SLURRY       |       |             | DISPLA                  | CEMENT                |  |
|---|--------------------------------------|--------------|-------|-------------|-------------------------|-----------------------|--|
| 8 5/8"                                    | 350 sacks Class C Cement + 2% bwoc   |              |       |             | 22.9 bbls Fresh Water @ |                       |  |
|   | Calcium Chloride + 56.4% Fresh Water |              |       |             |                         | 3 ppg                 |  |
|   | 269 Vol. Cu Ft                       |              |       |             |                         | 110                   |  |
|   | 1.35 Vol. Factor                     |              |       |             |                         |                       |  |
|   | Slurry Weight (                      | ppg) 14.8    |       |             |                         |                       |  |
|   | Slurry Yield (cf                     | 7sack) 1.35  |       |             |                         |                       |  |
| Amount of Mix Water (gps) 6.36;           |                                      |              |       |             |                         |                       |  |
| Amount of Mix Fluid (gps) 6.36;           |                                      |              |       |             |                         |                       |  |
| Estimated Pumping Time - 70 BC            |                                      |              |       |             |                         |                       |  |
| (HH:MM)-2:20;                             |                                      |              |       |             |                         |                       |  |
| Free Water (mls) @ 80 Deg. F @ 90 Deg.    |                                      |              |       |             |                         |                       |  |
| Angle: 0.00                               |                                      |              |       |             |                         |                       |  |
| Fluid Loss (cc/30 min) at 1000 psi and 80 |                                      |              |       |             |                         |                       |  |
| deg. F: 850.0                             |                                      |              |       |             |                         |                       |  |
| Compressive Strength:                     |                                      |              |       |             |                         |                       |  |
| 12 hrs @ 80 Deg. F (psi) 1600             |                                      |              |       |             |                         |                       |  |
| 24 hrs @ 80 Deg. F (psi) 2350             |                                      |              |       |             |                         |                       |  |
| 72 hrs @ 80 Deg. F (psi) 3000             |                                      |              |       |             |                         |                       |  |
|   |                                      |              |       |             |                         |                       |  |
| 8 5/8" Casing: Volume Calculations:       |                                      |              |       |             |                         |                       |  |
| 400                                       | ft x                                 | 0.4127 cf/ft | with  | 178% excess | =                       | 459.0 cf              |  |
| 40 f                                      | t x                                  | 0.3576 cf/ft | with  | 0% excess   | =                       | 14.3 cf (inside pipe) |  |
|   |                                      | TOTAL SLU    | RRY V | OLUME       | =                       | 473.3 cf              |  |
|   |                                      |              |       |             | =                       | 84.3 bbls             |  |