

CEMENT

| TYPE OF STRING<br>INTERVAL (FT)<br>FROM-TO TYPE MIX | GEL% | SALT% | CaCl <sub>2</sub> | SLURRY            |                 | TOTAL AMT.<br>REQUIRED<br>SKX/CF | FILL UP | BHT | SIZE    | REMARKS                                                                    |
|-----------------------------------------------------|------|-------|-------------------|-------------------|-----------------|----------------------------------|---------|-----|---------|----------------------------------------------------------------------------|
|                                                     |      |       |                   | WEIGHT<br>LB./GAL | YIELD<br>CF/SKX |                                  |         |     |         |                                                                            |
| (S) 0'-1375'                                        |      |       |                   |                   |                 |                                  |         |     |         |                                                                            |
| Class 'C'                                           | 4%   | -     | 2%                | 13.05             | 1.88            | 463/871                          |         |     |         |                                                                            |
| Class 'C'                                           | -    | -     | 2%                | 14.80             | 1.32            | 200/264                          | Circ.   | 75° | 12-1/4" | 100% excess, add<br>1/4#/sx. Flocele<br>necessary for los-<br>circulation  |
| (P) 0'-3830'                                        |      |       |                   |                   |                 |                                  |         |     |         |                                                                            |
| Class 'C' Light                                     | -    | 18%   | -                 | 13.20             | 1.84            | 578/1064                         |         |     |         |                                                                            |
| Class 'C'                                           | -    | -     | 2%                | 14.80             | 1.32            | 200/264                          | Circ.   | 90° | 7-7/8"  | 100% excess, add<br>1/4#/sx. Flocele<br>necessary for los-<br>circulation. |

## NOTE:

1. Reciprocate pipe while cementing.
2. Preceed cement volumes with 500 gallons mud flush.
3. Re-calculate cement slurry volumes after open hole caliper is run.
4. Lab test cement slurries prior to cementing production string.
5. Utilize top and bottom plugs. Pump top plug w/TFW.
6. Condition mud to have low plastic viscosity and yield strength.