

PROPOSED CEMENT PROGRAM

JAMES "E" WELL NOS. 11, 12, 13, & 14

13 3/8" 54.5 lb/ft K-55 Surface Casing Set at 475' - 17 1/2" Hole:

Circulate to surface with 700 sacks of Class "C" + 2% CaCl_2 .

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 ft ³ /sx
Water Requirement:	6.3 gals/sx

8 5/8" 24 lb/ft K-55 Intermediate Casing Set at 3700' - 12 1/4" Hole:

Lead: 1000 sx Class "C" 65/35 Poz + 6% Bentonite + 15 lb/sx Salt.

Slurry Weight:	13.2 ppg
Slurry Yield:	1.92 ft ³ /sx
Water Requirement:	9.9 gals/sx

Tail: 200 sx Class "C" + 10 #/sx salt.

Slurry Weight:	15.2 ppg
Slurry Yield:	1.38 ft ³ /sx
Water Requirement:	6.3 gals/sx

5 1/2" 15.5 lb/ft K-55 Production Casing Set at 7700' - 7 7/8" Hole:

Lead: 250 sx Class "C" + 20% Diacel "D". Desired TOC = 3000'.

Slurry Weight:	12.0 ppg
Slurry Yield:	2.69 ft ³ /sx
Water Requirement:	15.5 gals/sx

Tail: 600 sx Class "C" Neat. Desired TOC = 5000'.

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 ft ³ /sx
Water Requirement:	6.3 gals/sx