

PROPOSED CASING & CEMENTING PROGRAM

James "A" Well No. 11

13 3/8" 48 lb/ft H-40 ST&C Surface Casing Set at 400' - 17 1/2" Hole:

Circulate to surface with 700 sacks of Class "C" + 2% CaCl₂.

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

8 5/8" 24 lb/ft J-55 ST&C Intermediate Casing Set at 3500' - 12 1/4" Hole:

Lead: 1200 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 J-55 ST&C Production Casing Set at 7500' - 7 7/8" Hole:

Set stage tool at approximately 6000'.

1st Stage: 250 sx Class "C" Neat. Desired TOC = 6000'.

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 ft ³ /sx
Water Required:	6.3 gal/sx

2nd Stage: WOC 6 hrs between stages.

Lead: 200 sx Class "C" + 20% Diacel "D". Desired TOC = 3000'.

Slurry Weight:	12.0 ppg
Slurry Yield:	2.69 ft ³ /sx
Water Required:	15.5 gal/sx

Tail: 250 sx Class "C" Neat. Desired TOC = 4500'.

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 ft ³ /sx
Water Required:	6.3 gal/sx