

CEMENTING PROGRAM
Moore #25-R

Intermediate :

<p>Preflush, 1st stage</p>	<p>40 bbl. 10 bbl.</p>	<p>Mud Flush + dye marker Fresh Water</p>	
<p>Tail, 1st stage slurry 1 TOC@Stage Tool</p>		<p>Standard Cement + 0.4% Halad-344 + 0.4% CFR-3 + 2.0% Microbond + 5 lb/sk gilsonite + 1/4 lb/sk flocele *** (use slurry 5 if significant losses are encountered during drilling, slurry 5 is slurry 1 with 10 lb./sk total gilsonite)</p>	<p>645 cu. ft.</p>
<p>Preflush, 2nd stage</p>	<p>20 bbl. 60 bbl.</p>	<p>Fresh Water + dye marker Poz Scavenger (Poz A + 2% gel)</p>	
<p>Lead, 2nd stage slurry 2 TOC@Surface</p>		<p>Halliburton Light Cement (std cmt) + 7 lb/sk salt + 5% Calseal + 0.5% VersaSet + 3/8 lb/sk flocele *** (use slurry 4 if significant losses are encountered during drilling, slurry 4 is slurry 2 + 10 lb./sk gilsonite)</p>	<p>1440 cu. ft.</p>
<p>Tail, 2nd stage slurry 3</p>	<p>100 sk</p>	<p>Standard Cement + 0.4% Halad-344 + 0.4% CFR-3 + 2.0% Microbond + 5 lb/sk gilsonite + 1/4 lb/sk flocele</p>	<p>129 cu. ft.</p>

Slurry Properties:

	density (lb/gal)	yield (ft ³ /sk)	water (gal/sk)
Scavenger	11.00	1.53	7.78
slurry 1	15.11	1.29	5.40
slurry 2	13.10	1.80	9.19
slurry 3	15.11	1.29	5.40
slurry 4	12.60	2.04	9.83
slurry 5	14.61	1.40	5.60

Casing Equipment:

<p>Halliburton</p>	<p>9 5/8", 36 ppf, LT&C</p>	
<p>1 Super Seal II Float Shoe 1 Super Seal II Float Collar 1 Multiple Stage Cementer 25 S-4 Fluidmaster Centralizer</p>	<p>100 ft. above the Fruitland Coal top or apx. 1 on first 3 joints, then every 5th collar, also 1 on each collar above and below stage tool</p>	<p>2114 ft.</p>
<p>1 Cement Baskets 1 2 Stage Plug Set 3 Lock Clamp 2 Weld A</p>	<p>1 on each joint below the stage tool</p>	