

CEMENTING PROGRAM

Surface Casing	Weight (lb/gal)	Yield (ft ³ /sk)	Volume (sx)	Remarks
13-3/8" 54.5# in 17-1/2" hole @ 1450'				
<u>Spacer</u>				
60 bbls of 10 lb/gal brine + 5 lb/bbl caustic				
<u>Lead Slurry</u>				
Class "C" light or equivalent	12.7	1.77	680*	Volumes based on 1150' of gauge hole + 50% excess
<u>Tail Slurry</u>				
Class "C" + 2% CaCl ₂	14.8	1.32	240*	Volumes based on 300' of gauge hole + 50% excess
				*Volumes should be re-calculated based upon fluid caliper
<u>Production Casing</u>				
5-1/2", 15.5# in 7-7/8" hole @ 7000'				
1st Stage				
<u>Spacer</u>				
80 bbls of 10 lb/gal brine w/5 lb/bbl caustic				
<u>Lead Slurry</u>				
Class "C" light or equivalent	12.7	1.77	200	Volumes based on 1000' of gauge hole + 100% excess
<u>Tail Slurry</u>				
Class "H"	16.4	1.06	650	Volumes based on 2000' of gauge hole + 100% excess
2nd Stage				
<u>Lead Slurry</u>				
Class "C" light or equivalent + 18% salt	12.7	1.77	980	Volume based on 5000' of gauge hole + 100% excess
<u>Tail</u>				
Class "C" Neat	14.8	1.32	100	