## B. Proposed Cement Program (Continued):

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CASING	LEAD SLURRY			TAIL SLURRY			DISPLACEMENT		
5 ½"	565 sacks (35:65) Poz (Fly			250 sacks Class C Cement + 3%			100.2 bbls Fresh		
	Ash): Class C Cement + 5			bwow Potassium Chloride			Water @		
	lbs/sack Sodium Chloride +			+0.2% bwoc CD-32 + 0.6%				8.33 ppg	
	0.003 gj	os FP-6	L + 6% bwoc	bwoc	FL-62 + 0.2%	bwoc			
	Bentonite + 99% Fresh Water;			Sodium Metasilicate + 56.6%					
	1091 Vol. Cu Ft				Water				
		1.93 <b>V</b> o	<ol> <li>Factor</li> </ol>	338 Vol. Cu Ft					
	Slurry Weight (ppg) 12.7 Slurry Yield (cf/sack) 1.93 Amount of Mix Water (gps) 10.33; Amount of Mix Fluid (gps)				1.35 Vol. Fa				
					y Weight (ppg)				
					y Yield (cf/sacl				
					unt of Mix Wa				
					6.38;				
	10.33;				unt of Mix Flui				
	Estimated Pumping Time - 70 BC (HH:MM)-3:00; Free Water (mls) @ 98 Deg. F @ 90 Deg. Angle: 1.8; Fluid Loss (cc/30 min) at 1000				nated Pumping				
					BC (HH:MM)-2:30;				
					Free Water (mls) @ 98 Deg. F				
					@ 90 Deg. Angle: 0.0;				
					Fluid Loss (cc/30 min) at 1000				
	psi and 98 Deg. F:				psi and 98 Deg. F: 300.0				
	950.0				Compressive Strength:				
Compressive Strength: 12 hrs @ 106 Deg. F (psi) 280				12 hr	12 hrs @ 106 Deg. F (psi) 1200				
				24 hrs @ 106 Deg. F (psi) 1800					
24 hrs @ 106 Deg. F (psi) 375					72 hrs @ 106 Deg. F (psi) 2300				
72 hrs @ 106 Deg. F (psi) 900									
5 ½" Casing: Volume Calculations:									
40	00 ft	x	0.1926 cf/ft	with	0% excess	=	77	7.0 cf	
315	50 ft	$\mathbf{x}$	0.1733 cf/ft	with	86% excess	=	1015	5.4 cf	
70	00 ft	x	0.1733 cf/ft	with	174% excess	=	332	2.5 cf	
:	80 ft	X	0.1336 cf/ft	with	0% excess	=	10	0.7 cf (inside pipe)	
	TOTAL SLURRY VOLUME					=	1435	5.6 cf	
						=	255	bbls	

All slurries will be tested prior to loading to confirm thickening times and a lab report furnished to Apache. Fluid loss will be tested and reported on slurries with fluid loss additives. Lab test report will be furnished prior to pumping cement.