B. Proposed Cement Program (Continued):

CASING	LEAD SLURRY			TAIL SLURRY				DISPLACEMENT
5 1/2"	565 sacks (35:65) Poz (Fly			250 sacks Class C Cement + 3%			+ 3%	100.2 bbls Fresh
	Ash): Class C Cement + 5			bwow Potassium Chloride				Water @
	lbs/sack Sodium Chloride +			+0,2	+0.2% bwoc CD-32 + 0.6%			8.33 ppg
	0.003 gps FP-6L + 6% bwoc			bwoc FL- $62 + 0.2\%$ bwoc				
	Bentonite + 99% Fresh Water;			Sodium Metasilicate + 56.6%			%	
		1091 V	ol, Cu Ft	Fresh Water				
	1.93 Vol. Factor				338 Vol. C			
	Slurry Weight (ppg) 12.7 Slurry Yield (cf/sack) 1.93 Amount of Mix Water (gps) 10.33;				1.35 Vol. Fa			
					ry Weight (ppg)			
					ry Yield (cf/sacl			
					unt of Mix Wat)		
	Amount of Mix Fluid (gps)				6.38;			
	10,33;				unt of Mix Flui			
	Estimated Pumping Time – 70				nated Pumping	70		
BC (HH:MM)-3:00;					BÇ (HH:MN	•		
	Free Water (mls) @ 98 Deg. F				Free Water (mls) @ 98 Deg. F			
	@ 90 Deg. Angle: 1.8;				@ 90 Deg. A	•		
	Fluid Loss (cc/30 min) at 1000				l Loss (cc/30 m			
psi and 98 Deg. F:				psi and 98 Deg. F: 300.0				
950.0				Compressive Strength:				
Compressive Strength:					rs @ 106 Deg. 1			
12 hrs @ 106 Deg. F (psi) 280					24 hrs @ 106 Deg. F (psi) 1800			
24 hrs @ 106 Deg. F (psi) 375				72 h	rs @ 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.	0 cf
315	0 ft	x	0.1733 cf/ft	with	86% excess	=	1015.	
70	0 ft	X	0.1733 cf/ft	with	174% excess	=	332.	
8	80 ft	X	0.1336 cf/ft	with	0% excess	=	10.	7 cf (inside pipe)
	TOTAL SLURRY VOLUME					=	1435.	
						=	255 b	bls
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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.