B. Proposed Cement Program (Continued):

CASING	LEA	AD SI	LURRY		TAIL SLUR	<u>RY</u>	DISPLACEME		
5 1/2"	565 sacks (35:65) Poz (Fly			250 sa	icks Class C C	100.2 bbls Fre			
	Ash): Class C Cement + 5			bwow Potassium Chloride			Water		
	,		Chloride +	+0.2%	6 bwoc CD-32	8.33 p			
	0.003 gps	FP-6L	. + 6% bwoc	bwoc	FL-62 + 0.2%				
	Bentonite + 99% Fresh Water;			Sodiu	m Metasilicate				
	1091 Vol. Cu Ft			Fresh	Water				
	1.93 Vol. Factor								
	Slurry Weight (ppg) 12.7								
	Slurry Yield (cf/sack) 1.93			Slurry Weight (ppg) 14.8					
	Amount of Mix Water (gps)			Slurry					
	10.	33;		Amou	int of Mix Wat	er (gps)			
	Amount of Mix Fluid (gps)				6.38;				
	10.33;			Amount of Mix Fluid(gps) 6.38;					
	Estimated Pumping Time – 70			Estimated Pumping Time – 70					
	BC	C (HH	: MM)- 3:00;		BC (HH:MM	1)-2:30 ;			
	Free Wate	r (mls) @ 98 Deg. F	Free Water (mls) @ 98 Deg. F @ 90 Deg. Angle: 0.0;					
	a	90 De	g. Angle: 1.8;						
	Fluid Loss	(cc/3	0 min) at 1000	Fluid Loss (cc/30 min) at 1000					
	psi	and 9	98 Deg. F:	psi and 98 Deg. F: 300.0					
	95	0.0		Compressive Strength:					
	Compressi	ive Sta	rength:	12 hrs @ 106 Deg. F (psi) 1200					
	12 hrs @ 1	106 D	eg. F (psi) 280	24 hrs @ 106 Deg. F (psi) 1800					
	24 hrs @ 1	106 D	eg. F (psi) 375	72 hrs @ 106 Deg. F (psi) 2300					
	72 hrs @	106 E	Deg. F (psi) 900	<u>.</u> ,					
				• • • •	1 01 14				
					lume Calculati		7 0f		
4	00 ft	Х	0.1926 cf/ft	with	0% excess	= 7	7.0 cf		

400 ft	x	0.1926 cf/ft	with	0% excess	=	77.0 cf
3150 ft	х	0.1733 cf/ft	with	86% excess	=	1015.4 cf
700 ft	х	0.1733 cf/ft	with	174% excess	=	332.5 cf
80 ft	х	0.1336 cf/ft	with	0% excess	=	10.7 cf (inside pipe)
		TOTAL SLU	RRY V	OLUME	=	1435.6 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.