Foam Stability Test									
							Temp		
							Cement	171.7	
Date:	7-28-11								
Technician:							Water	172.5	
Slurry Design:	.09 gps 13% Foam (180 min) - Macond Cement Sample								
Theoretical Density of Slurry (ppg):	14.5 ppg						RPM	1220.7	
Curing Temperature:									
Curing Time.							1000 mL before foamed		
Temperature of the Water:							Blender Cup Foamed		
Specific Gravity of Water g/cm3:		Atm cond: 7-28-11 @ 2:46 p.m.							
		Cubeson: 7-28-11 @ 5:56 p.m.					2057.86 g ⇒ 1100.0 mL	S.G. = 1.87	15.6 ppg

Stability of Unset Foamed Cement Slurry

Sample Number	Wt of Graduated Cylinder (g)	Slurry/Grad. Cylinder (g)	Volume of Sample (mL)	Density of Slurry (lb/gal)	S.G. (g/cm3)	S.G. (Top)	S.G. (Middle)	S.G. (Bottom)	
1	238.51	686.42	230.00	14.9	1.79				
2									
3									
4									
5									
6									
7									
8									

Comment: No Channeling noticed 6mL of void space → Bubble Breakout - minor.

Stability of Set Foamed Cement Slurry

Sample Number	Wt of Cube Section (g)	Wt of Volume of Removed Water (g)	Density of Top (lb/gal)	Wt of Cube Section (g)	Wt of Volume of Removed Water (g)	Density of Middle (lb/gal)	Wt of Sample Cube (g)	Wt of Volume of Removed Water (g)	Density of Bottom (lb/gal)
1									
2									
3									
4									
5									
6									
7									
8									

5940
Exhibit No. _____
Worldwide Court Reporters, Inc.

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Foam Stability Test									
	7-28-11						Temp Cement	71.6	120 mL oil ⇒ 600 mL slurry
Date:									
Technician:							Water	74.1	
Slurry Design:	.09 gps w/ 20% Base oil (13% foam) - 180 min						RPM	12209	
Theoretical Density of Slurry (ppg)							970 mL ~~bef~~ before foamed		
Curing Temperature:									
Curing Time:									
							Blender Chp Foamed		
Temperature of the Water:									
Specific Gravity of Water g/cm3:		Atm cond: 7-28-11 @ 11:50 a.m.					1569.35 g ⇒ 980.0 mL		S.G. = 1.60 13.3 ppg
		Cubes on: 7-28-11 @ 3:20 p.m.							

Stability of Unset Foamed Cement Slurry

Sample Number	Wt of Graduated Cylinder (g)	Slurry/Grad. Cylinder (g)	Volume of Sample (mL)	Density of Slurry (lb/gal)	S.G. (g/cm3)	S.G. (Top)	S.G. (Middle)	S.G. (Bottom)	
1	238.86	621.41	250.00	12.74	1.53				
2									
3									
4									
5									
6									
7									
8									

Comment: Minor Bubble Breakout

Stability of Set Foamed Cement Slurry

Sample Number	Wt of Cube Section (g)	Wt of Volume of Removed Water (g)	Density of Top (lb/gal)	Wt of Cube Section (g)	Wt of Volume of Removed Water (g)	Density of Middle (lb/gal)	Wt of Sample Cube (g)	Wt of Volume of Removed Water (g)	Density of Bottom (lb/gal)
1 Top	49.15	33.52	12.21						
2 Mid	66.84	43.32				12.85			
3 Bottom	72.51	45.92							13.15
4 Cube	220.19	142.28	12.89						
5									
6									
7									
8									

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