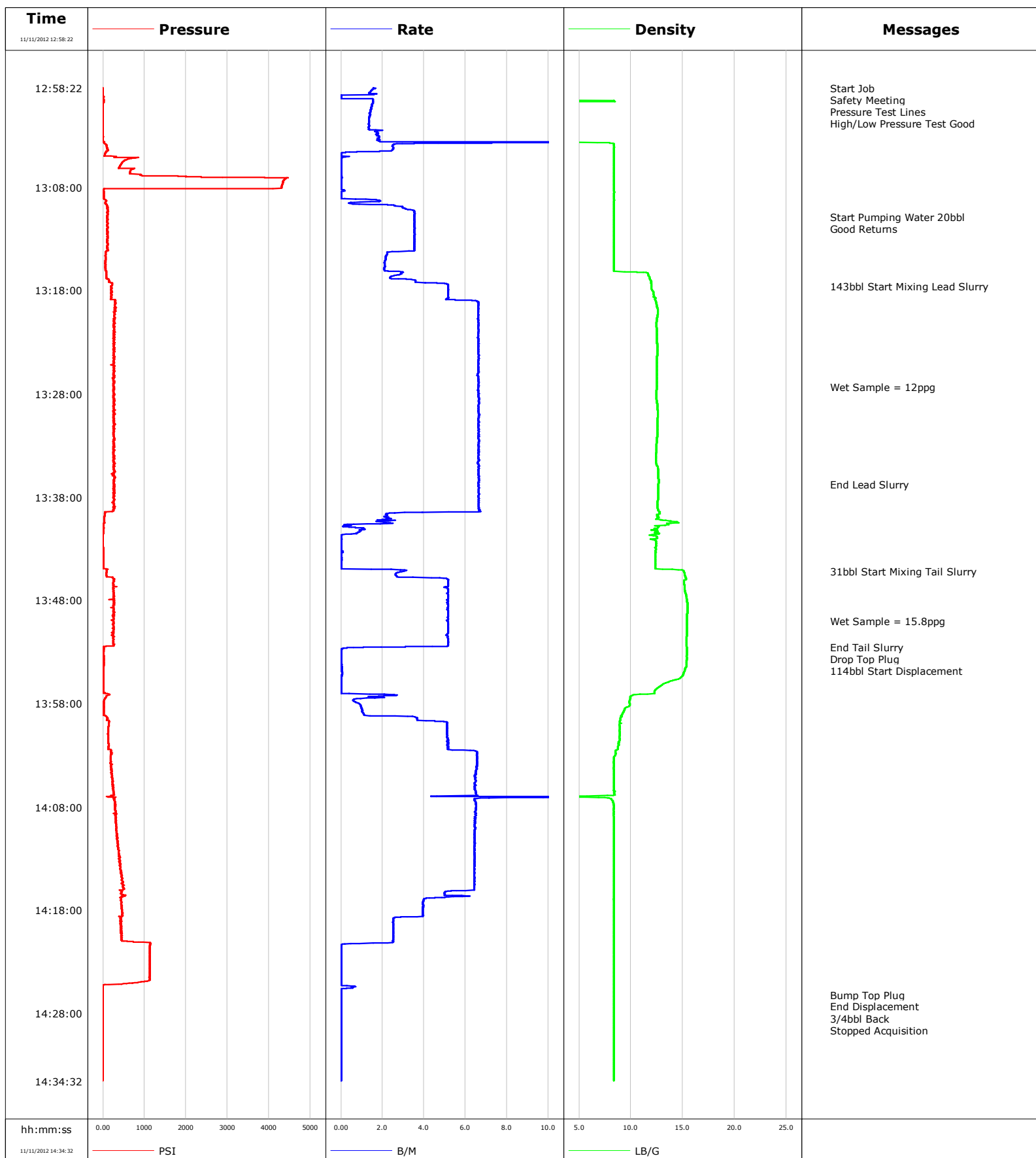


Well Benzel Fee 25-3A
Field Mamm Creek
Engineer
Country United States

Client Encana
SIR No. c610-00874
Job Type 9 5/8 Surface
Job Date 11-11-2012



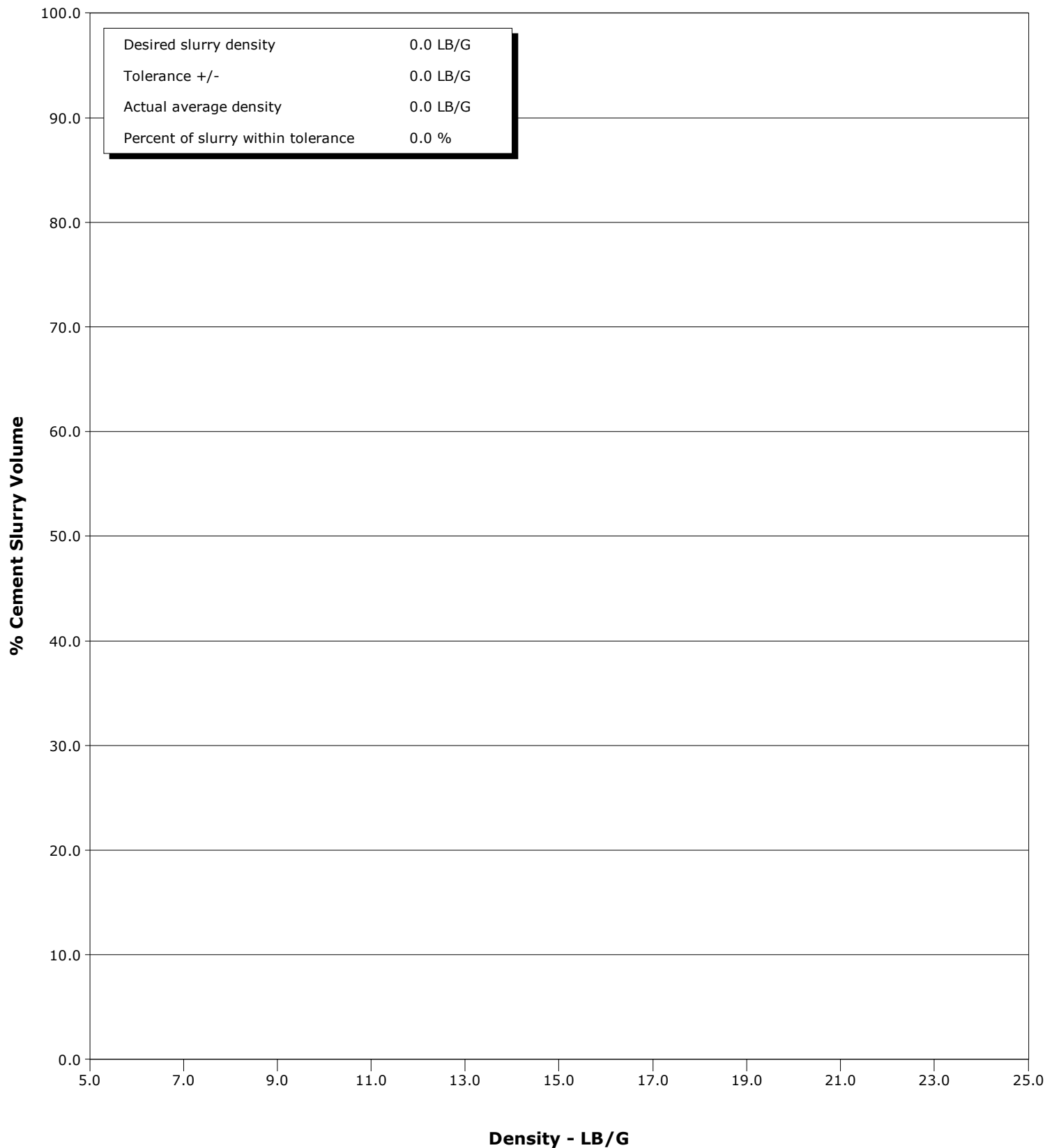


Cementing Qa/Qc Density Report

Well Benzel Fee 25-3A
Field Mamm Creek
Engineer
Country United States

Client Encana
SIR No. c610-00874
Job Type 9 5/8 Surface
Job Date 11-11-2012

- 06/29/1972 08:54:24 to 06/29/1972 08:58:08





Cementing Service Report

				Customer Encana		Job Number c610-00874		
Well Benzel Fee 25-3A 25-3A			Location (legal) F25NWB		Schlumberger Location GCO		Job Start Nov/11/2012	
Field Mamm Creek		Formation Name/Type Dirty-Sandstone		Deviation	Bit Size 12.3 in	Well MD 1540.0 ft		Well TVD 1540.0 ft
County Garfield		State/Province Colorado		BHP	BHST 100 degF	BHCT 85 degF	Pore Press. Gradient	
Well Master 631296763		API/UWI 05045208780000						
Rig Name Patterson 308	Drilled For Gas	Service Via Land	Casing/Liner					
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class New	Well Type Development	1526.0	9.630	36.0	j55	8rd	
			0.0	0.000	0.0			
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe				
				Depth,	Size,	Weight,	Grade	Thread
Service Line Cementing	Job Type 9 5/8 Surface							
Max. Allowed Tub. Press 1500 psi	Max. Allowed Ann. Press	WH Connection Single Cement head	Perforations/Open Hole					
			Top,	Bottom,		No. of Shots	Total Interval	
Service Instructions 20bbls Water Spacer. 381skts 12.5# G Lead to Surface. 149skts 15.8# G Tail. 114bbls Water Displacement 69bbls Cement to Surface							Diameter	
			Treat Down Casing	Displacement 114.0 bbl	Packer Type	Packer Depth		
			Tubing Vol.	Casing Vol.	Annular Vol. 114.0 bbl	Openhole Vol.		
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job		
Lift Pressure			Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1540.0 ft		Tool Type		
No. Centralizers		Top Plugs 1	Bottom Plugs	Stage Tool Type		Tool Depth		
Cement Head Type Single			Stage Tool Depth		Tail Pipe Size			
Job Scheduled For Nov/11/2012		Arrived on Location Nov/11/2012	Leave Location Nov/11/2012	Collar Type Float		Tail Pipe Depth		
				Collar Depth 1526.0 ft		Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
11/11/2012	12:11:04					Started Acquisition		
11/11/2012	12:58:22	-2	1.6	0.42	0.0			
11/11/2012	12:58:23					Start Job		
11/11/2012	12:58:23	-2	1.6	0.42	0.1			
11/11/2012	12:58:25					Safety Meeting		
11/11/2012	12:58:25	-2	1.6	0.42	0.1			
11/11/2012	12:58:37					Pressure Test Lines		
11/11/2012	12:58:37	-3	1.5	0.42	0.4			
11/11/2012	12:58:40					High/Low Pressure Test Good		
11/11/2012	12:58:40	-3	1.5	0.42	0.5			
11/11/2012	13:01:04	-3	1.4	0.42	3.5			
11/11/2012	13:06:04	395	0.0	8.37	11.8			
11/11/2012	13:10:55					Start Pumping Water 20bbl		
11/11/2012	13:10:55	116	3.5	8.37	16.5			
11/11/2012	13:11:04	112	3.5	8.37	17.0			
11/11/2012	13:11:13					Good Returns		
11/11/2012	13:11:13	111	3.5	8.37	17.5			
11/11/2012	13:16:04	62	2.1	8.36	32.1			
11/11/2012	13:17:37					143bbl Start Mixing Lead Slurry		
11/11/2012	13:17:37	222	5.2	11.97	37.4			
11/11/2012	13:21:04	264	6.6	12.47	58.3			

Well			Field		Job Start		Customer		Job Number	
Benzel Fee 25-3A 25-3A			Mamm Creek		Nov/11/2012		Encana		c610-00874	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
11/11/2012	13:27:19					Wet Sample = 12ppg				
11/11/2012	13:27:19	255	6.6	12.50	99.7					
11/11/2012	13:31:04	251	6.6	12.54	124.5					
11/11/2012	13:36:04	266	6.6	12.64	157.7					
11/11/2012	13:36:47					End Lead Slurry				
11/11/2012	13:36:47	257	6.6	12.65	162.4					
11/11/2012	13:41:04	12	1.1	12.25	183.1					
11/11/2012	13:45:13					31bbl Start Mixing Tail Slurry				
11/11/2012	13:45:13	85	3.0	15.11	184.2					
11/11/2012	13:46:04	266	5.2	15.17	187.1					
11/11/2012	13:50:00					Wet Sample = 15.8ppg				
11/11/2012	13:50:00	248	5.1	15.42	207.4					
11/11/2012	13:51:04	252	5.2	15.40	212.9					
11/11/2012	13:52:33					End Tail Slurry				
11/11/2012	13:52:33	20	1.1	15.42	220.3					
11/11/2012	13:53:01					Drop Top Plug				
11/11/2012	13:53:01	9	0.0	15.40	220.4					
11/11/2012	13:53:02					114bbl Start Displacement				
11/11/2012	13:53:02	9	0.0	15.40	220.4					
11/11/2012	13:56:04	6	0.0	13.22	220.5					
11/11/2012	14:01:04	121	5.1	8.92	231.7					
11/11/2012	14:06:04	237	6.5	8.36	262.3					
11/11/2012	14:11:04	352	6.4	8.36	295.4					
11/11/2012	14:16:04	394	6.4	8.36	327.6					
11/11/2012	14:21:04	728	2.5	8.36	344.9					
11/11/2012	14:26:04	-5	0.0	8.36	345.4					
11/11/2012	14:26:09					Bump Top Plug				
11/11/2012	14:26:09	-5	0.0	8.36	345.4					
11/11/2012	14:26:10					End Displacement				
11/11/2012	14:26:10	-5	0.0	8.36	345.4					
11/11/2012	14:26:22					3/4bbl Back				
11/11/2012	14:26:22	-5	0.0	8.36	345.4					
11/11/2012	14:31:04	-7	0.0	8.37	345.4					

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.6	N2	Mud 0.0	Maximum Rate 25.0	Total Slurry 345.2	Mud 0.0	Spacer 55.2	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4472	Final 1125	Average 313	Bump Plug to 1000	Breakdown	Type	Volume	Density	
Avg. N2 Percent		Designed Slurry Volume		Displacement 124.8 bbl	Mix Water Temp	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume	
						Washed Thru Perfs <input type="checkbox"/>	To	
Customer or Authorized Representative Marco Silva			Schlumberger Supervisor Travis Willardson			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	