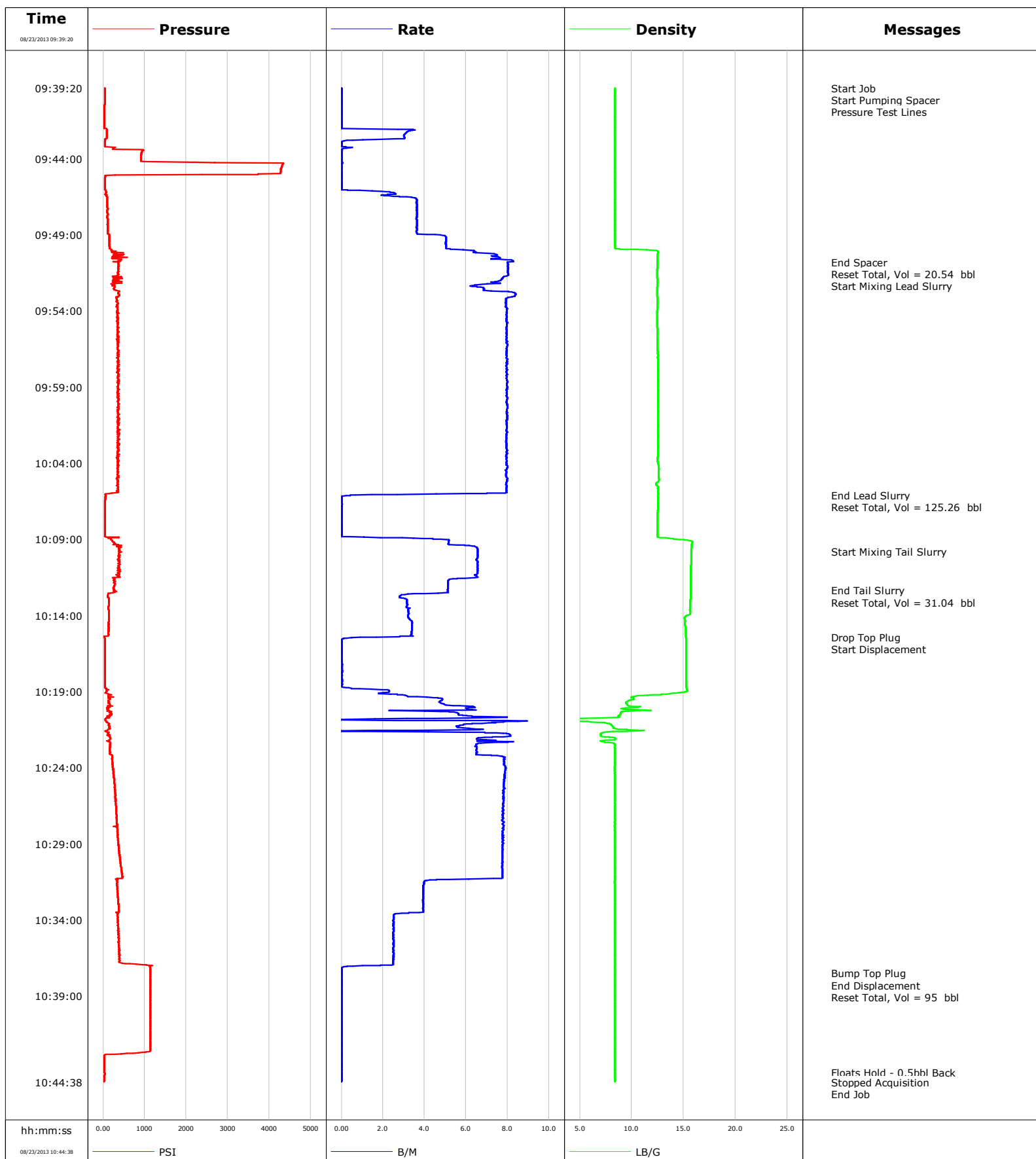


Well HMU 6-15AA
Field Mamm Creek
Engineer Michael Simon/TJ Morrow
Country United States

Client Encana
SIR No. CFAO-00871
Job Type 9 5/8 Surface
Job Date 08-23-2013





Cementing Service Report

					Customer Encana			Job Number CFAO-00871							
Well HMU 6-15AA 6-15AA				Location (legal) Grand Junction			Schlumberger Location Rock Springs			Job Start Aug/23/2013					
Field Mamm Creek		Formation Name/Type			Deviation		Bit Size 13.5 in		Well MD 1274.2 ft		Well TVD 1274.2 ft				
County Garfield		State/Province Colorado			BHP		BHST 95 degF		BHCT 82 degF		Pore Press. Gradient				
Well Master 0631456234		API/UWI 05045219400000													
Rig Name Nabors M 15		Drilled For Gas		Service Via Land		Casing/Liner									
Offshore Zone		Well Class New		Well Type Development		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
						1274.2		9.630		36.0		J55		8RD	
Drilling Fluid Type		Max. Density 9.00 lb/gal		Plastic Viscosity		0.0		0.000		0.0					
						Tubing/Drill Pipe		Depth,		Size,		Weight,		Grade	
Service Line Cementing		Job Type 9 5/8 Surface													
Max. Allowed Tub. Press 3000 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole									
Service Instructions						Top,		Bottom,				No. of Shots		Total Interval	
														Diameter	
						Treat Down Casing		Displacement 95.0 bbl		Packer Type		Packer Depth			
						Tubing Vol.		Casing Vol. 98.5 bbl		Annular Vol. 113.0 bbl		Openhole Vol. 213.0 bbl			
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools				Squeeze Job							
Lift Pressure 630 psi				Shoe Type Guide				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1274.2 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 Aug/23/2013		Arrived on Location Aug/23/2013		Leave Location Aug/23/2013		Collar Type Float				Tail Pipe Depth					
						Collar Depth 1229.8 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message								
08/23/2013	08:34:49						Started Acquisition								
08/23/2013	09:39:20	37	0.0	8.39	0.0	0.0									
08/23/2013	09:39:21						Start Job								
08/23/2013	09:39:21	37	0.0	8.39	0.0	0.0									
08/23/2013	09:39:23						Start Pumping Spacer								
08/23/2013	09:39:23	37	0.0	8.39	0.0	0.0									
08/23/2013	09:39:26						Pressure Test Lines								
08/23/2013	09:39:26	37	0.0	8.39	0.0	0.0									
08/23/2013	09:40:49	34	0.0	8.39	0.0	0.0									
08/23/2013	09:43:49	913	0.0	8.39	2.2	2.2									
08/23/2013	09:46:49	105	3.6	8.39	4.3	4.3									
08/23/2013	09:49:49	155	5.0	8.39	16.3	16.3									
08/23/2013	09:50:49						End Spacer								
08/23/2013	09:50:49	368	8.0	12.48	23.3	23.3									
08/23/2013	09:50:51						Reset Total, Vol = 20.54 bbl								
08/23/2013	09:50:51	378	8.0	12.48	23.5	23.5									
08/23/2013	09:50:59						Start Mixing Lead Slurry								
08/23/2013	09:50:59	391	8.0	12.48	1.1	1.1									
08/23/2013	09:52:49	362	8.3	12.47	15.0	15.0									
08/23/2013	09:55:49	355	8.0	12.51	38.9	38.9									
08/23/2013	09:58:49	358	8.0	12.55	62.8	62.8									

Well			Field		Job Start	Customer	Job Number
HMU 6-15AA 6-15AA			Mamm Creek		Aug/23/2013	Encana	CFAO-00871
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
08/23/2013	10:04:49	382	7.9	12.57	110.6	110.6	
08/23/2013	10:06:05						End Lead Slurry
08/23/2013	10:06:05	60	0.7	12.56	120.2	120.2	
08/23/2013	10:06:08						Reset Total, Vol = 125.26 bbl
08/23/2013	10:06:08	65	0.2	12.56	120.3	120.3	
08/23/2013	10:07:49	37	0.0	12.52	0.0	0.0	
08/23/2013	10:09:46						Start Mixing Tail Slurry
08/23/2013	10:09:46	371	6.6	15.76	5.0	5.0	
08/23/2013	10:10:49	383	6.5	15.71	11.8	11.8	
08/23/2013	10:12:20						End Tail Slurry
08/23/2013	10:12:20	255	5.1	15.68	20.7	20.7	
08/23/2013	10:13:10						Reset Total, Vol = 31.04 bbl
08/23/2013	10:13:10	132	3.2	15.64	23.7	23.7	
08/23/2013	10:13:49	136	3.2	15.65	0.8	0.8	
08/23/2013	10:15:25						Drop Top Plug
08/23/2013	10:15:25	24	1.7	15.22	6.1	6.1	
08/23/2013	10:15:26						Start Displacement
08/23/2013	10:15:26	31	0.9	15.25	6.1	6.1	
08/23/2013	10:16:49	37	0.0	15.26	0.0	0.0	
08/23/2013	10:19:49	164	4.9	9.53	3.6	3.6	
08/23/2013	10:22:49	166	6.5	8.39	21.8	21.8	
08/23/2013	10:25:49	298	7.8	8.39	44.8	44.8	
08/23/2013	10:28:49	358	7.8	8.39	68.2	68.2	
08/23/2013	10:31:49	343	3.9	8.39	89.6	89.6	
08/23/2013	10:34:49	359	2.5	8.38	99.5	99.5	
08/23/2013	10:37:30						Bump Top Plug
08/23/2013	10:37:30	1132	0.0	8.39	105.0	105.0	
08/23/2013	10:37:32						End Displacement
08/23/2013	10:37:32	1132	0.0	8.39	105.0	105.0	
08/23/2013	10:37:33						Reset Total, Vol = 95 bbl
08/23/2013	10:37:33	1132	0.0	8.39	105.0	105.0	
08/23/2013	10:37:49	1132	0.0	8.39	0.0	0.0	
08/23/2013	10:40:49	1135	0.0	8.39	0.0	0.0	
08/23/2013	10:43:49	34	0.0	8.39	0.0	0.0	
08/23/2013	10:43:59						Floats Hold - 0.5bbl Back
08/23/2013	10:43:59	33	0.0	8.39	0.0	0.0	
08/23/2013	10:44:38	32	0.0	8.39	0.0	0.0	
08/23/2013	10:44:38						Stopped Acquisition

Well	Field	Job Start	Customer	Job Number
HMU 6-15AA 6-15AA	Mamm Creek	Aug/23/2013	Encana	CFAO-00871

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
5.6		0.0	8.9	156.0	0.0	20.0		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
4349	39	377	800					
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume		
	150.0 bbl		95.0 bbl	70 degF	<input checked="" type="checkbox"/>	55.0 bbl		
					Washed Thru Perfs	To		
					<input type="checkbox"/>			
Customer or Authorized Representative			Schlumberger Supervisor		Circulation Lost	Job Completed		
Tony Ketterling			Michael Simon/TJ Morrow		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
					-	-		