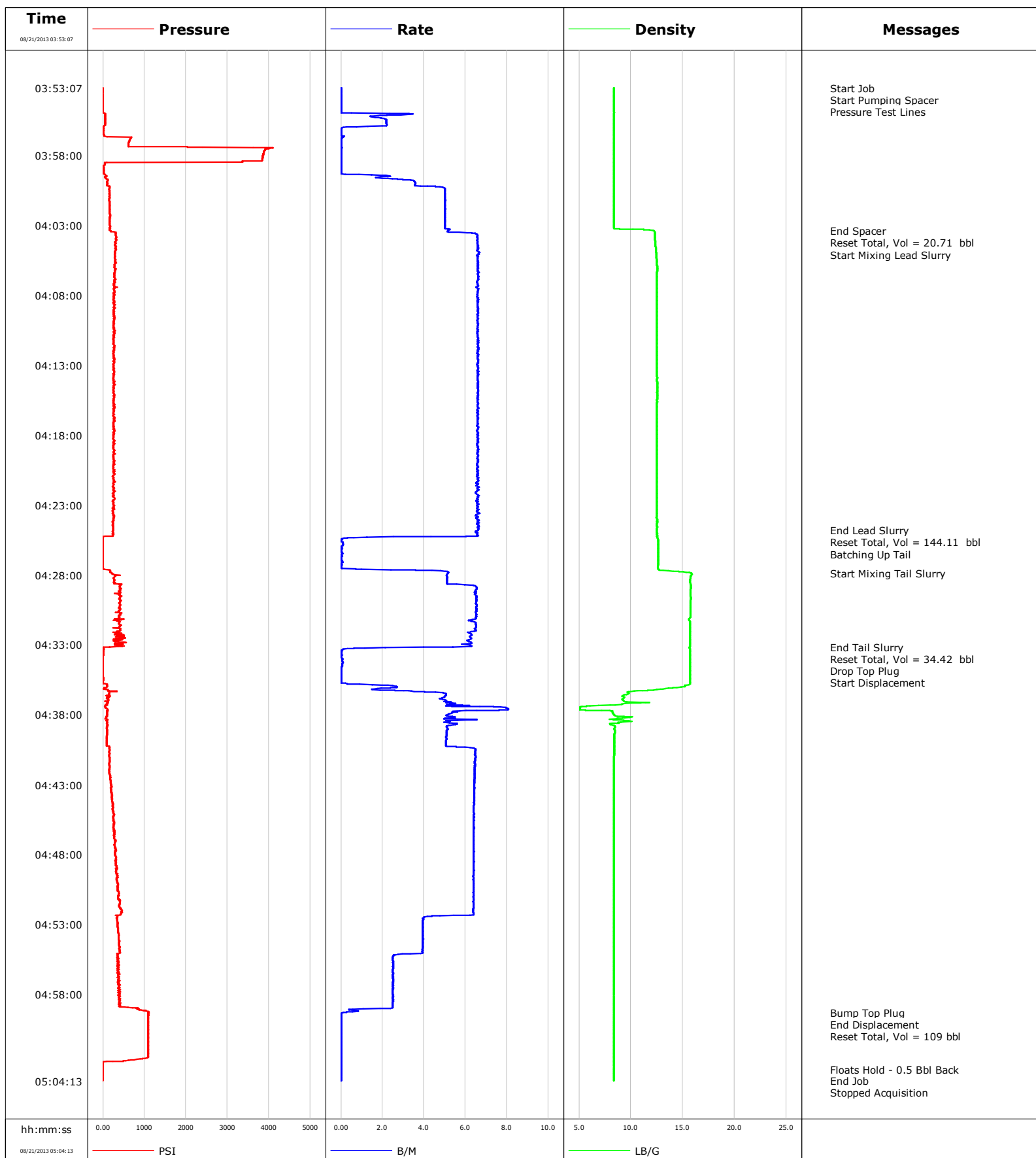


Well Hagen Federal 22-1AA
Field Parachute
Engineer Michael Simon/ TJ Morrow
Country United States

Client Encana
SIR No. C567-00016
Job Type 9 5/8 Surface
Job Date 08-21-2013





Cementing Service Report

					Customer Encana			Job Number C567-00016							
Well Hagen Federal 22-1AA 22-1AA				Location (legal) Grand Junction			Schlumberger Location Rock Springs			Job Start Aug/21/2013					
Field Parachute		Formation Name/Type Shale			Deviation		Bit Size 12.3 in		Well MD 1452.0 ft		Well TVD 1452.0 ft				
County Garfield		State/Province Colorado			BHP		BHST 94 degF		BHCT 85 degF		Pore Press. Gradient				
Well Master 0631457667		API/UWI 05045219450000													
Rig Name Patterson 303		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	
						1450.5		9.630		36.0		J55		8RD	
Drilling Fluid Type		Max. Density 9.20 lb/gal		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type 9 5/8 Surface													
Max. Allowed Tub. Press 3500 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 109.0 bbl		Packer Type		Packer Depth							
		Tubing Vol.		Casing Vol. 112.1 bbl		Annular Vol. 84.0 bbl		Openhole Vol. 199.0 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 718 psi				Shoe Type Float		Squeeze Type									
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 1450.5 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/21/2013		Arrived on Location Aug/21/2013		Leave Location Aug/21/2013		Collar Type Float				Tail Pipe Depth					
						Collar Depth 1405.3 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message								
08/21/2013	02:57:57						Started Acquisition								
08/21/2013	03:53:07						Start Job								
08/21/2013	03:53:07	-1	0.0	8.38	0.0	0.0									
08/21/2013	03:53:08						Start Pumping Spacer								
08/21/2013	03:53:08	-1	0.0	8.38	0.0	0.0									
08/21/2013	03:53:13						Pressure Test Lines								
08/21/2013	03:53:13	-2	0.0	8.38	0.0	0.0									
08/21/2013	03:54:57	14	0.5	8.38	0.0	0.0									
08/21/2013	03:57:57	3858	0.0	8.37	2.1	2.1									
08/21/2013	04:00:57	156	5.0	8.37	8.4	8.4									
08/21/2013	04:03:22						End Spacer								
08/21/2013	04:03:22	182	5.2	12.18	20.5	20.5									
08/21/2013	04:03:24						Reset Total, Vol = 20.71 bbl								
08/21/2013	04:03:24	188	5.1	12.26	20.7	20.7									
08/21/2013	04:03:57	310	6.6	12.32	3.5	3.5									
08/21/2013	04:04:41						Start Mixing Lead Slurry								
08/21/2013	04:04:41	309	6.6	12.40	8.3	8.3									
08/21/2013	04:06:57	272	6.6	12.48	23.3	23.3									
08/21/2013	04:09:57	251	6.6	12.51	43.0	43.0									
08/21/2013	04:12:57	243	6.5	12.52	62.8	62.8									
08/21/2013	04:15:57	251	6.6	12.52	82.6	82.6									

Well Hagen Federal 22-1AA 22-1AA			Field Parachute		Job Start Aug/21/2013	Customer Encana	Job Number C567-00016
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
08/21/2013	04:21:57	258	6.6	12.51	122.2	122.2	
08/21/2013	04:24:49						End Lead Slurry
08/21/2013	04:24:49	245	6.6	12.52	141.0	141.0	
08/21/2013	04:24:50						Reset Total, Vol = 144.11 bbl
08/21/2013	04:24:50	247	6.6	12.52	141.2	141.2	
08/21/2013	04:24:57	240	6.5	12.50	141.9	141.9	
08/21/2013	04:25:58						Batching Up Tail
08/21/2013	04:25:58	-7	0.0	12.63	0.0	0.0	
08/21/2013	04:27:53						Start Mixing Tail Slurry
08/21/2013	04:27:53	217	5.2	15.81	1.3	1.3	
08/21/2013	04:27:57	243	5.1	15.86	1.7	1.7	
08/21/2013	04:30:57	383	6.5	15.72	20.2	20.2	
08/21/2013	04:33:11						End Tail Slurry
08/21/2013	04:33:11						Reset Total, Vol = 34.42 bbl
08/21/2013	04:33:11	18	4.0	15.66	34.3	34.3	
08/21/2013	04:33:12						Drop Top Plug
08/21/2013	04:33:12	7	2.1	15.66	34.3	34.3	
08/21/2013	04:33:15						Start Displacement
08/21/2013	04:33:15	16	0.6	15.67	34.4	34.4	
08/21/2013	04:33:57	-1	0.1	15.68	0.0	0.0	
08/21/2013	04:36:57	133	5.0	9.23	4.2	4.2	
08/21/2013	04:39:57	93	5.1	8.39	20.7	20.7	
08/21/2013	04:42:57	188	6.4	8.38	39.6	39.6	
08/21/2013	04:45:57	260	6.4	8.38	58.8	58.8	
08/21/2013	04:48:57	324	6.4	8.38	78.0	78.0	
08/21/2013	04:51:57	455	6.4	8.38	97.1	97.1	
08/21/2013	04:54:57	404	3.9	8.38	110.1	110.1	
08/21/2013	04:57:57	396	2.5	8.38	117.8	117.8	
08/21/2013	04:59:19						Bump Top Plug
08/21/2013	04:59:19	1099	0.1	8.38	120.7	120.7	
08/21/2013	04:59:21						End Displacement
08/21/2013	04:59:21	1095	0.1	8.38	120.7	120.7	
08/21/2013	04:59:24						Reset Total, Vol = 109 bbl
08/21/2013	04:59:24	1097	0.0	8.38	120.7	120.7	
08/21/2013	05:00:57	1091	0.0	8.38	0.0	0.0	
08/21/2013	05:03:23						Floats Hold - 0.5 Bbl Back
08/21/2013	05:03:23	-9	0.0	8.38	0.0	0.0	
08/21/2013	05:03:57	-9	0.0	8.38	0.0	0.0	
08/21/2013	05:04:11						End Job
08/21/2013	05:04:11	-9	0.0	8.38	0.0	0.0	
08/21/2013	05:04:13	-9	0.0	8.38	0.0	0.0	

Well Hagen Federal 22-1AA 22-1AA	Field Parachute	Job Start Aug/21/2013	Customer Encana	Job Number C567-00016
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.3	N2	Mud 0.0	Maximum Rate 8.1		Total Slurry 178.0	Mud 0.0	Spacer 20.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4096	Final -9	Average 366	Bump Plug to 1000	Breakdown	Type	Volume		Density
Avg. N2 Percent	Designed Slurry Volume 170.0 bbl		Displacement 109.0 bbl		Mix Water Temp 68 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 60.0 bbl	
Customer or Authorized Representative Erasmo Parra			Schlumberger Supervisor Michael Simon/ TJ Morrow			Washed Thru Perfs <input type="checkbox"/>	To	
						Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-		-