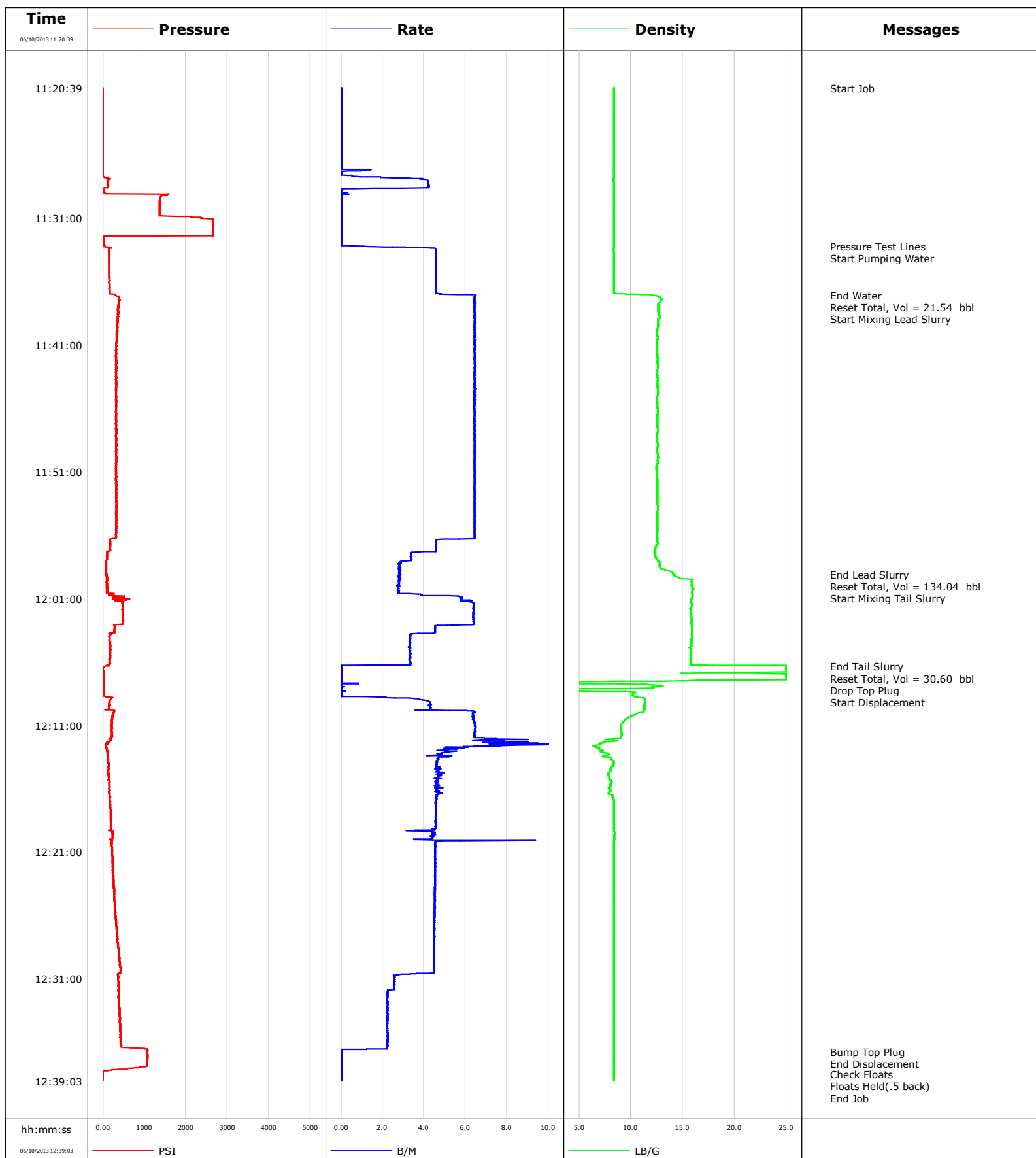


Well Hagen Fed 15-16b
Field Parachute
Engineer
Country United States

Client Encana
SIR No. C459-01491
Job Type Surface
Job Date 06-10-2013



Cementing Service Report

					Customer Encana		Job Number C459-01491	
Well Hagen Fed 15-16b			Location (legal)		Schlumberger Location			Job Start Jun/10/2013
Field Parachute		Formation Name/Type		Deviation	Bit Size		Well MD	Well TVD
County Garfield		State/Province Colorado		BHP	BHST	BHCT	Pore Press. Gradient	
Well Master		API/UWI						
Rig Name		Drilled For Gas		Service Via Land		Casing/Liner		
				Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone		Well Class New		Well Type Exploration		1501.4	9.630	36.0
						0.0	0.000	0.0
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe		
						Depth,	Size,	Weight,
Service Line Cementing		Job Type Surface						
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection		Perforations/Open Hole		
						Top,	Bottom,	No. of Shots
								Total Interval
								Diameter
						Treat Down Casing	Displacement 112.4 bbl	Packer Type
						Tubing Vol.	Casing Vol.	Annular Vol.
								Packer Depth
								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 400 psi				Shoe Type Guide		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1501.4 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 Jun/10/2013		Arrived on Location Jun/10/2013		Leave Location Jun/10/2013		Collar Type Float		Tail Pipe Depth
						Collar Depth 1454.4 ft		Sqz. Total Vol.
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message	
06/10/2013	11:20:39	-5	0.0	8.34	0.0	0.0		
06/10/2013	11:20:40						Start Job	
06/10/2013	11:20:40	-4	0.0	8.34	0.0	0.0		
06/10/2013	11:23:09	-8	0.0	8.34	0.0	0.0		
06/10/2013	11:25:39	-8	0.0	8.34	0.0	0.0		
06/10/2013	11:28:09	123	4.2	8.34	1.9	1.9		
06/10/2013	11:30:39	1364	0.0	8.34	3.8	3.8		
06/10/2013	11:33:09	52	0.1	8.34	3.8	3.8		
06/10/2013	11:33:11						Pressure Test Lines	
06/10/2013	11:33:11	33	1.1	8.34	3.9	3.9		
06/10/2013	11:33:12						Start Pumping Water	
06/10/2013	11:33:12	33	1.3	8.34	3.9	3.9		
06/10/2013	11:35:39	156	4.6	8.34	14.9	14.9		
06/10/2013	11:37:02						End Water	
06/10/2013	11:37:02	291	6.5	11.90	21.3	21.3		
06/10/2013	11:37:04						Reset Total, Vol = 21.54 bbl	
06/10/2013	11:37:04	312	6.5	12.38	21.5	21.5		
06/10/2013	11:37:06						Start Mixing Lead Slurry	
06/10/2013	11:37:06	336	6.5	12.60	21.8	0.2		
06/10/2013	11:38:09	356	6.5	12.63	28.5	7.0		
06/10/2013	11:40:39	326	6.4	12.52	44.6	23.1		

Well			Field		Job Start	Customer	Job Number
Hagen Fed 15-16b			Parachute		Jun/10/2013	Encana	C459-01491
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
06/10/2013	11:45:39	312	6.4	12.54	76.9	55.4	
06/10/2013	11:48:09	307	6.4	12.51	93.0	71.4	
06/10/2013	11:50:39	312	6.4	12.45	109.1	87.6	
06/10/2013	11:53:09	319	6.4	12.53	125.2	103.7	
06/10/2013	11:55:39	327	6.4	12.56	141.3	119.8	
06/10/2013	11:58:09	66	2.9	12.74	152.8	131.3	
06/10/2013	11:59:04						End Lead Slurry
06/10/2013	11:59:04	79	2.9	14.09	155.4	133.9	
06/10/2013	11:59:07						Reset Total, Vol = 134.04 bbl
06/10/2013	11:59:07	82	2.9	14.16	155.6	134.0	
06/10/2013	11:59:09						Start Mixing Tail Slurry
06/10/2013	11:59:09	107	2.8	14.18	155.7	0.1	
06/10/2013	12:00:39	269	3.8	15.93	159.9	4.3	
06/10/2013	12:03:09	272	4.5	15.87	175.2	19.6	
06/10/2013	12:05:39	175	3.4	15.73	184.2	28.7	
06/10/2013	12:06:21						End Tail Slurry
06/10/2013	12:06:21	25	0.0	25.00	186.2	30.6	
06/10/2013	12:06:22						Reset Total, Vol = 30.60 bbl
06/10/2013	12:06:22	19	0.0	25.00	186.2	30.6	
06/10/2013	12:06:25						Drop Top Plug
06/10/2013	12:06:25	1	0.0	25.00	186.2	0.0	
06/10/2013	12:06:26						Start Displacement
06/10/2013	12:06:26	1	0.0	25.00	186.2	0.0	
06/10/2013	12:08:09	4	0.0	0.80	186.2	0.0	
06/10/2013	12:10:39	223	6.4	9.34	195.9	9.7	
06/10/2013	12:13:09	107	4.9	7.43	212.4	26.2	
06/10/2013	12:15:39	154	4.6	8.03	224.1	37.9	
06/10/2013	12:18:09	184	4.6	8.34	235.6	49.4	
06/10/2013	12:20:39	220	4.5	8.34	246.9	60.7	
06/10/2013	12:23:09	253	4.5	8.34	258.2	72.1	
06/10/2013	12:25:39	295	4.5	8.34	269.6	83.4	
06/10/2013	12:28:09	358	4.5	8.35	280.8	94.6	
06/10/2013	12:30:39	348	2.9	8.34	291.9	105.8	
06/10/2013	12:33:09	381	2.2	8.34	297.9	111.8	
06/10/2013	12:35:39	428	2.2	8.34	303.5	117.3	
06/10/2013	12:36:47						Bump Top Plug
06/10/2013	12:36:47	1066	0.0	8.34	305.5	119.4	
06/10/2013	12:36:48						End Displacement
06/10/2013	12:36:48	1071	0.0	8.34	305.5	119.4	
06/10/2013	12:38:09	376	0.0	8.35	305.5	119.4	
06/10/2013	12:38:31						Check Floats
06/10/2013	12:38:31	-8	0.0	8.35	305.5	119.4	
06/10/2013	12:38:32						Floats Held(.5 back)
06/10/2013	12:38:32	-8	0.0	8.35	305.5	119.4	
06/10/2013	12:39:00						End Job

Well Hagen Fed 15-16b	Field Parachute	Job Start Jun/10/2013	Customer Encana	Job Number C459-01491
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.9	N2	Mud 0.0	Maximum Rate 10.6	Total Slurry 164.0	Mud 0.0	Spacer 21.7	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2651	Final -7	Average 353	Bump Plug to 1000	Breakdown	Type	Volume	Density	
Avg. N2 Percent	Designed Slurry Volume 171.0 bbl		Displacement 112.0 bbl	Mix Water Temp 70 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 80.0 bbl		
Customer or Authorized Representative Charlie Brown			Schlumberger Supervisor		Washed Thru Perfs <input type="checkbox"/>	To		
					Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
					-	-		