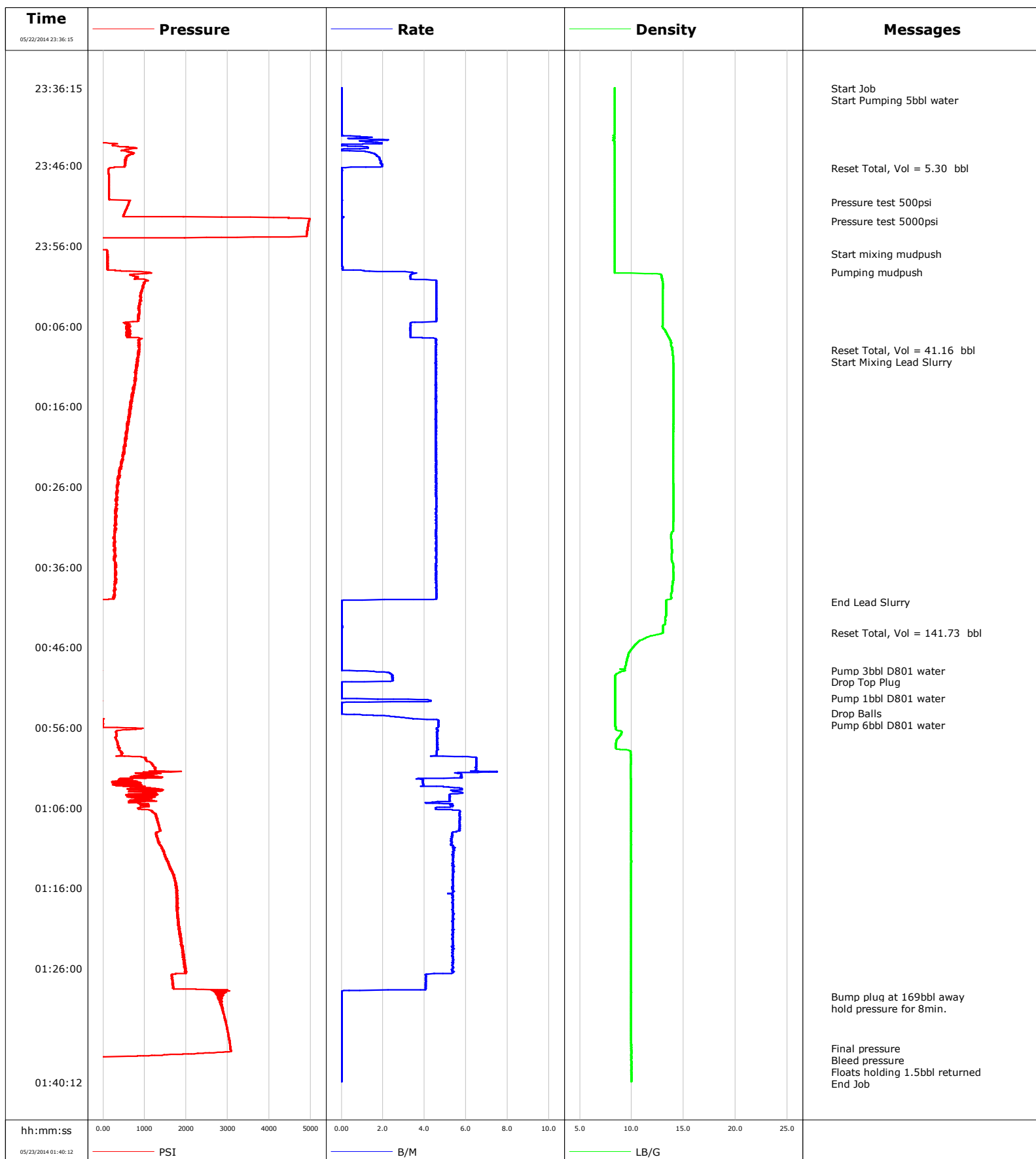


Well Bohrer 2B-19H
Field DJ
Engineer Chris Valerio/Stacy Terry
Country United States

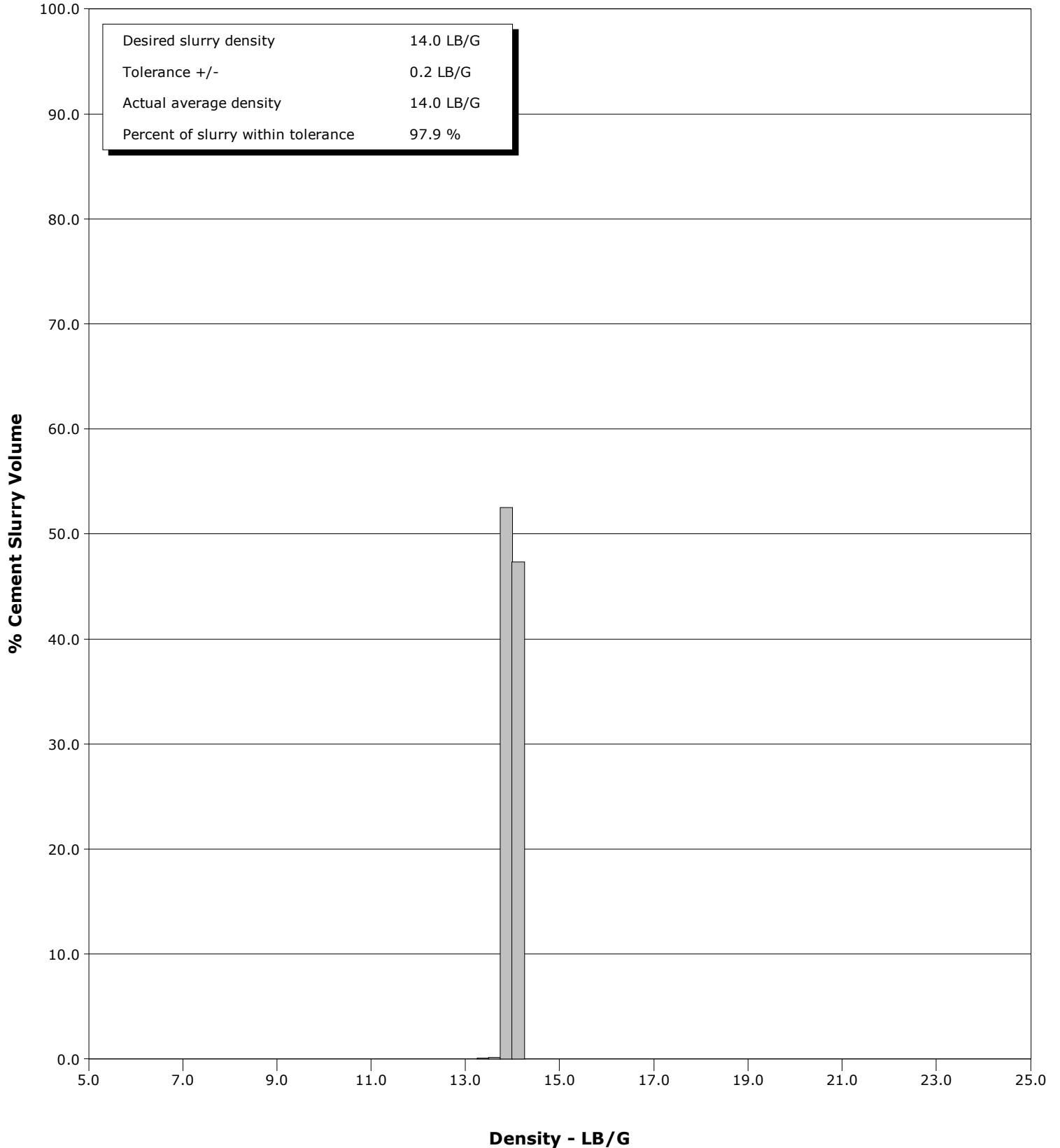
Client Encana
SIR No. C459-02713
Job Type Production
Job Date 05-22-2014



Well Bohrer
Field DJ
Engineer Chris Valerio/Stacy Terry
Country United States

Client Encana
SIR No. C459-02713
Job Type Production
Job Date 05-22-2014

Cement Slurry - 05/23/2014 00:09:01 to 05/23/2014 00:40:12



Cementing Service Report

				Customer Encana			Job Number C459-02713				
Well Bohrer 2B-19H			Location (legal)			Schlumberger Location			Job Start May/22/2014		
Field DJ		Formation Name/Type Shale		Deviation 90 deg		Bit Size 6.1 in		Well MD 11570.0 ft		Well TVD 7110.0 ft	
County Weld		State/Province Colorado		BHP psi		BHST 196 degF		BHCT 195 degF		Pore Press. Gradient lb/gal	
Well Master 0631513494		API/UWI 05123384440000									
Rig Name Patterson #326		Drilled For Oil		Service Via Land		Casing/Liner					
						Depth, ft		Size, in		Weight, lb/ft	
										Grade	
										Thread	
Offshore Zone		Well Class New		Well Type Development		7573.0		7.0		26.0	
						11570.0		4.5		13.5	
										P110	
										P110	
Drilling Fluid Type Other		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type Production									
Max. Allowed Tub. Press 4500 psi		Max. Allowed Ann. Press psi		WH Connection Blackhawk CMT Head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Casing		Displacement 171.5 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 172.3 bbl		Annular Vol. 207.9 bbl	
										Openhole Vol. 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 psi						Shoe Type Float			Squeeze Type		
Pipe Rotated <input checked="" type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 11570.0 ft			Tool Type		
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type			Tool Depth ft		
Cement Head Type Single						Stage Tool Depth ft			Tail Pipe Size in		
Job Scheduled For May/22/2014 21:30		Arrived on Location May/22/2014 20:00		Leave Location May/23/2014 02:30		Collar Type Float			Tail Pipe Depth ft		
						Collar Depth 11515.0 ft			Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
05/22/2014	23:36:15	-168	0.0	8.35	0.0	Started Acquisition					
05/22/2014	23:36:18	-168	0.0	8.35	0.0	Start Job					
05/22/2014	23:36:21	-167	0.0	8.35	0.0	Start Pumping 5bbl water					
05/22/2014	23:41:15	-171	0.0	8.35	0.0						
05/22/2014	23:46:13	245	0.1	8.35	5.3	Reset Total, Vol = 5.30 bbl					
05/22/2014	23:46:15	174	0.0	8.35	5.3						
05/22/2014	23:50:33	623	0.0	8.35	5.3	Pressure test 500psi					
05/22/2014	23:51:15	569	0.0	8.35	5.3						
05/22/2014	23:52:52	4956	0.0	8.35	5.3	Pressure test 5000psi					
05/22/2014	23:56:15	-168	0.0	8.35	5.4						
05/22/2014	23:56:59	103	0.0	8.35	5.4	Start mixing mudpush					
05/22/2014	23:59:17	1109	3.4	8.35	5.9	Pumping mudpush					
05/23/2014	00:01:15	952	4.6	13.01	13.8						
05/23/2014	00:06:15	556	3.3	13.02	35.7						
05/23/2014	00:08:57	857	4.6	13.90	46.5	Reset Total, Vol = 41.16 bbl					
05/23/2014	00:09:01	868	4.5	13.91	46.8	Start Mixing Lead Slurry					
05/23/2014	00:11:15	795	4.5	14.01	56.9						
05/23/2014	00:16:15	638	4.5	14.01	79.6						
05/23/2014	00:21:15	504	4.6	13.99	102.3						
05/23/2014	00:26:15	341	4.6	14.01	125.1						
05/23/2014	00:31:15	283	4.6	13.98	147.9						

Well Bohrer 2B-19H			Field DJ		Job Start May/22/2014	Customer Encana	Job Number C459-02713
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume BBL	Message
05/23/2014	00:40:20	-156		0.0	13.31	188.2	End Lead Slurry
05/23/2014	00:41:15	-154		0.0	13.30	188.2	
05/23/2014	00:44:08	-161		0.0	13.02	188.2	Reset Total, Vol = 141.73 bbl
05/23/2014	00:46:15	-157		0.0	9.99	188.2	
05/23/2014	00:48:53	-160		0.0	9.34	188.2	Pump 3bbl D801 water
05/23/2014	00:50:17	-181		1.9	8.39	191.3	Drop Top Plug
05/23/2014	00:51:15	-167		0.0	8.39	191.3	
05/23/2014	00:52:22	-167		0.0	8.39	191.3	Pump 1bbl D801 water
05/23/2014	00:54:15	-168		0.0	8.39	192.8	Drop Balls
05/23/2014	00:54:45	-104		2.9	8.39	193.5	Pump 6bbl D801 water
05/23/2014	00:56:15	794		4.6	8.46	200.1	
05/23/2014	01:01:15	1257		6.5	9.89	226.1	
05/23/2014	01:06:15	935		4.9	9.95	251.8	
05/23/2014	01:11:15	1442		5.4	9.95	279.4	
05/23/2014	01:16:15	1772		5.4	9.95	306.3	
05/23/2014	01:21:15	1837		5.4	9.95	333.1	
05/23/2014	01:26:15	1972		5.3	9.95	359.9	
05/23/2014	01:29:33	2884		0.0	9.95	370.7	Bump plug at 169bbl away
05/23/2014	01:30:11	2840		0.0	9.95	370.8	hold pressure for 8min.
05/23/2014	01:31:15	2875		0.0	9.95	370.8	
05/23/2014	01:36:00	3067		0.0	9.95	370.8	Final pressure
05/23/2014	01:36:15	3073		0.0	9.95	370.8	
05/23/2014	01:37:07	-50		0.0	9.95	370.8	Bleed pressure
05/23/2014	01:37:38	-175		0.0	9.95	370.8	Floats holding 1.5bbl returned

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.0	N2	Mud	Maximum Rate 7.5	Total Slurry 138.0	Mud 40.0	Spacer 46.7	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4975	Final 3067	Average 1122	Bump Plug to 2400	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 138.0 bbl		Displacement 169.0 bbl	Mix Water Temp 68 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative Ira Cox			Schlumberger Supervisor Chris Valerio/Stacy Terry			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	