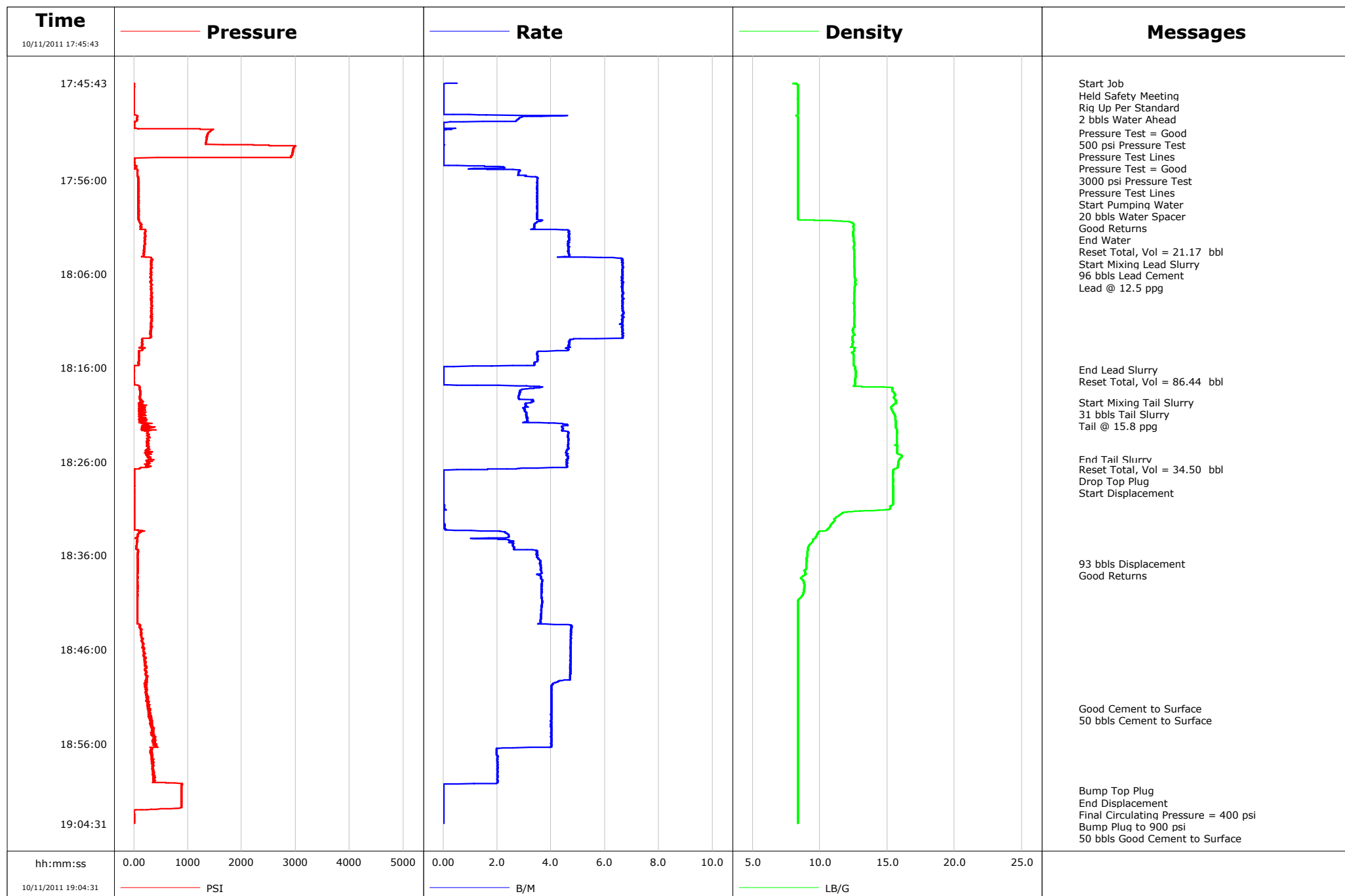


Well Federal 28-12BB
Field Parachute
Engineer Ryan Bowditch
Country United States

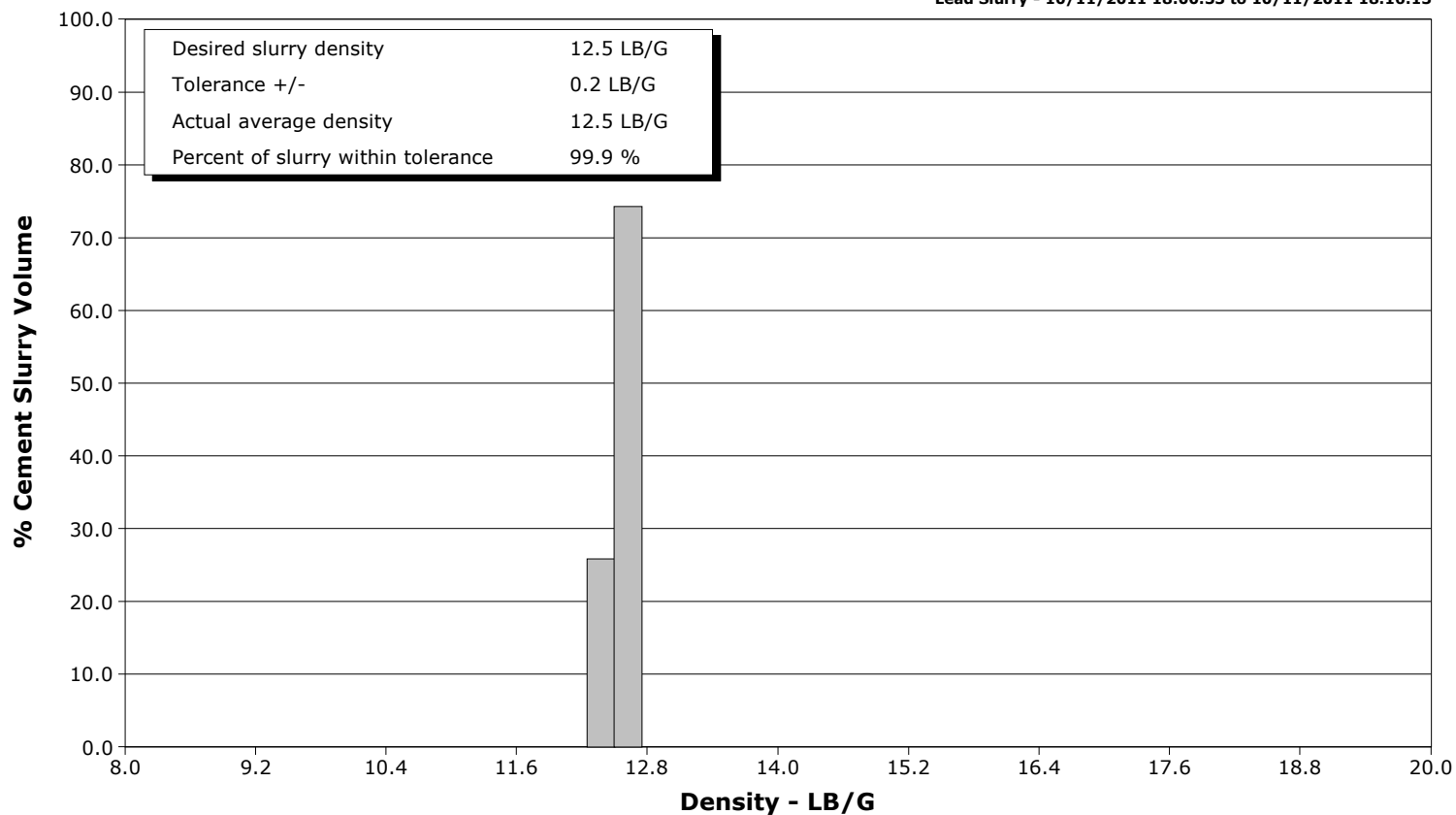
Client EnCana
SIR No. BC74-00101
Job Type 9 5/8" Surface Casing
Job Date 10-11-2011



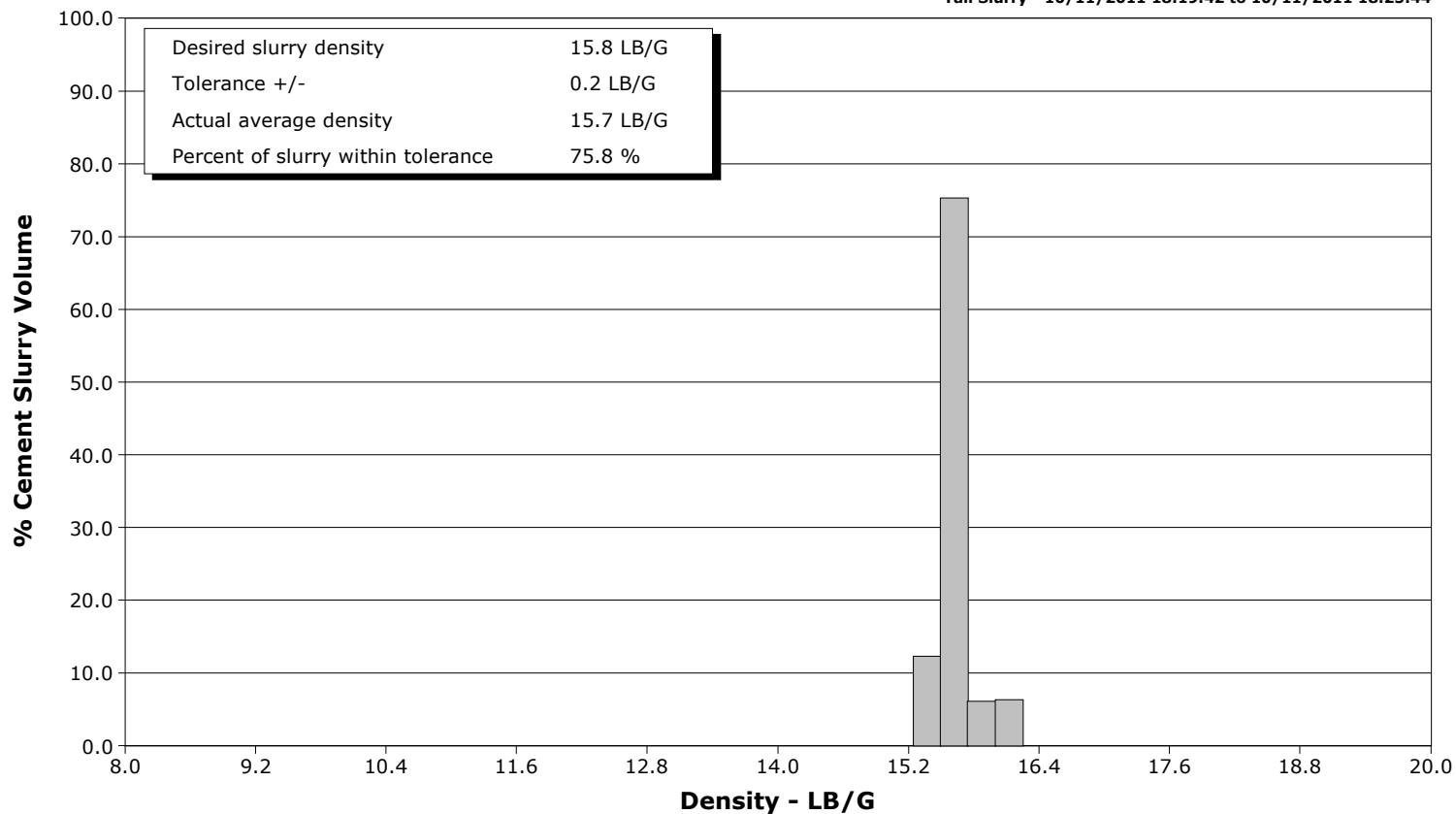
Well Federal 28-12BB
Field Parachute
Engineer Ryan Bowditch
Country United States

Client EnCana
SIR No. BC74-00101
Job Type 9 5/8" Surface Casing
Job Date 10-11-2011

Lead Slurry - 10/11/2011 18:00:33 to 10/11/2011 18:16:13



Tail Slurry - 10/11/2011 18:19:42 to 10/11/2011 18:25:44



Cementing Service Report

					Customer EnCana			Job Number BC74-00101				
Well Federal 28-12BB				Location (legal) PL-28			Schlumberger Location Grand Junction, CO			Job Start Oct/11/2011		
Field Parachute			Formation Name/Type Shale			Deviation 0 deg		Bit Size 12.3 in		Well MD 1250.0 ft		
County Garfield			State/Province Colorado			BHP psi		BHST 95 degF		BHCT 82 degF		
Well Master 0631236245			API/UWI 05045202250000							Pore Press. Gradient lb/gal		
Rig Name Nabors M15		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		40.0		16.0		65.0		
						1250.0		9.6		36.0		
										K55		
										8RD		
Drilling Fluid Type			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 9 5/8" Surface Casing							0.0		0.0	
									0.0		0.0	
Max. Allowed Tub. Press 1500 psi		Max. Allowed Ann. Press 500 psi		WH Connection Single Cement head		Perforations/Open Hole						
						Top, ft		Bottom, ft		shot/ft		
										No. of Shots		
										Total Interval ft		
										Diameter in		
						Treat Down Casing		Displacement 93.1 bbl		Packer Type		
										Packer Depth ft		
						Tubing Vol. bbl		Casing Vol. 96.7 bbl		Annular Vol. 73.0 bbl		
										Openhole Vol. 173.0 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 400 psi						Shoe Type Float			Squeeze Type			
Pipe Rotated <input type="checkbox"/>			Pipe Reciprocated <input type="checkbox"/>			Shoe Depth 1250.0 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 Oct/11/2011		Arrived on Location Oct/11/2011		Leave Location Oct/11/2011		Collar Type Float			Tail Pipe Depth ft			
						Collar Depth 1204.0 ft			Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message					
10/11/2011	17:45:43	-4	0.6	8.37	19.5	0	Started Acquisition					
10/11/2011	17:45:44	-4	0.5	8.28	19.5	0	Held Safety Meeting					
10/11/2011	17:47:23	-8	0.0	8.36	19.5	0						
10/11/2011	17:49:03	-5	0.0	8.36	0.0	0						
10/11/2011	17:50:43	1452	0.0	8.37	2.2	0						
10/11/2011	17:51:00	1383	0.0	8.37	2.2	0	Pressure Test = Good					
10/11/2011	17:52:23	2543	0.0	8.37	2.2	0						
10/11/2011	17:52:30	2972	0.0	8.37	2.2	0	Pressure Test = Good					
10/11/2011	17:54:03	9	0.0	8.37	2.2	0						
10/11/2011	17:54:51	12	0.9	8.37	2.8	0	Start Pumping Water					
10/11/2011	17:54:52	28	1.1	8.37	2.8	0	20 bbls Water Spacer					
10/11/2011	17:55:43	77	3.4	8.36	5.2	0						
10/11/2011	17:57:23	82	3.5	8.37	11.0	0						
10/11/2011	17:59:03	81	3.5	8.37	16.8	0						
10/11/2011	17:59:20	83	3.5	8.36	17.8	0	Good Returns					
10/11/2011	18:00:05	81	3.5	8.37	20.4	0	End Water					
10/11/2011	18:00:17	86	3.6	8.61	21.1	3	Reset Total, Vol = 21.17 bbl					
10/11/2011	18:00:33	106	3.5	12.37	22.0	5	Start Mixing Lead Slurry					
10/11/2011	18:00:35	123	3.5	12.40	22.2	5	96 bbls Lead Cement					
10/11/2011	18:00:43	125	3.4	12.49	22.6	6						
10/11/2011	18:02:23	209	4.7	12.51	29.6	13						

Well Federal 28-12BB			Field Parachute		Job Start Oct/11/2011		Customer EnCana		Job Number BC74-00101
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message		
10/11/2011	18:05:43	314	6.6	12.56	47.9	30			
10/11/2011	18:07:23	310	6.6	12.58	59.0	25			
10/11/2011	18:09:03	322	6.7	12.52	70.1	25			
10/11/2011	18:10:43	319	6.7	12.55	81.2	18			
10/11/2011	18:12:23	306	6.7	12.50	92.2	25			
10/11/2011	18:14:03	163	4.6	12.53	101.1	14			
10/11/2011	18:15:43	84	3.4	12.49	107.1	14			
10/11/2011	18:16:13	-2	0.0	12.62	107.6	0	End Lead Slurry		
10/11/2011	18:16:17	-1	0.0	12.63	107.6	0	Reset Total, Vol = 86.44 bbl		
10/11/2011	18:17:23	-1	0.0	12.61	107.6	0			
10/11/2011	18:19:03	111	2.8	15.53	111.0	29			
10/11/2011	18:19:42	161	3.2	15.63	113.0	31	Start Mixing Tail Slurry		
10/11/2011	18:19:43	161	3.2	15.62	113.0	31	31 bbls Tail Slurry		
10/11/2011	18:20:43	229	3.1	15.43	116.1	27			
10/11/2011	18:22:23	146	4.4	15.64	121.9	19			
10/11/2011	18:24:03	274	4.6	15.71	129.5	41			
10/11/2011	18:25:43	283	4.6	15.92	137.2	65			
10/11/2011	18:25:44	325	4.6	15.91	137.3	65	End Tail Slurry		
10/11/2011	18:26:49	11	1.7	15.51	142.0	83	Reset Total, Vol = 34.50 bbl		
10/11/2011	18:26:50	4	1.7	15.51	142.1	84	Drop Top Plug		
10/11/2011	18:26:51	4	1.0	15.48	142.1	84	Start Displacement		
10/11/2011	18:27:23	3	0.0	15.42	142.1	0			
10/11/2011	18:29:03	5	0.0	15.44	142.1	0			
10/11/2011	18:30:43	7	0.0	15.26	142.2	0			
10/11/2011	18:32:23	7	0.0	11.05	142.2	0			
10/11/2011	18:34:03	67	2.4	9.70	143.8	33			
10/11/2011	18:35:43	78	3.5	9.08	148.2	18			
10/11/2011	18:36:48	67	3.6	9.00	152.0	36	93 bbls Displacement		
10/11/2011	18:37:23	67	3.6	8.98	154.1	44			
10/11/2011	18:39:03	66	3.6	8.83	160.2	56			
10/11/2011	18:40:43	62	3.7	8.40	166.2	0			
10/11/2011	18:42:23	60	3.6	8.37	172.3	0			
10/11/2011	18:44:03	129	4.7	8.37	179.1	0			
10/11/2011	18:45:43	177	4.7	8.37	187.0	0			
10/11/2011	18:47:23	219	4.7	8.37	194.9	0			
10/11/2011	18:49:03	241	4.7	8.37	202.7	0			
10/11/2011	18:50:43	249	4.0	8.37	209.7	0			
10/11/2011	18:52:16	252	4.0	8.37	215.9	0	Good Cement to Surface		
10/11/2011	18:52:23	253	4.0	8.37	216.3	0			
10/11/2011	18:54:03	321	4.0	8.37	223.0	0			
10/11/2011	18:55:43	350	4.0	8.37	229.7	0			
10/11/2011	18:57:23	329	2.0	8.37	234.5	0			
10/11/2011	18:59:03	348	2.0	8.37	237.9	0			
10/11/2011	19:00:43	881	0.0	8.37	240.4	0			
10/11/2011	19:01:01	880	0.0	8.37	240.4	0	Bump Top Plug		
10/11/2011	19:01:02	880	0.0	8.37	240.4	0	End Displacement		
10/11/2011	19:01:06	880	0.0	8.37	240.4	0	Final Circulating Pressure = 400 psi		
10/11/2011	19:01:51	880	0.0	8.37	240.4	0	Good Returns During Displacement		
10/11/2011	19:02:23	880	0.0	8.37	240.4	0			
10/11/2011	19:03:42	0	0.0	8.37	240.4	0	Floats Held		

Well Federal 28-12BB	Field Parachute	Job Start Oct/11/2011	Customer EnCana	Job Number BC74-00101
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 3.9	N2		Mud	Maximum Rate 6.7	Total Slurry 127.0	Mud 0.0		Spacer 20.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 2994	Final 1	Average 271	Bump Plug to 900	Breakdown	Type		Volume bbl		Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 127.0 bbl		Displacement 93.0 bbl		Mix Water Temp 55 degF		Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume 50.0 bbl	
								Washed Thru Perfs		<input type="checkbox"/>	To ft
Customer or Authorized Representative Tony Ketterling				Schlumberger Supervisor Ryan Bowditch				Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
								-		-	