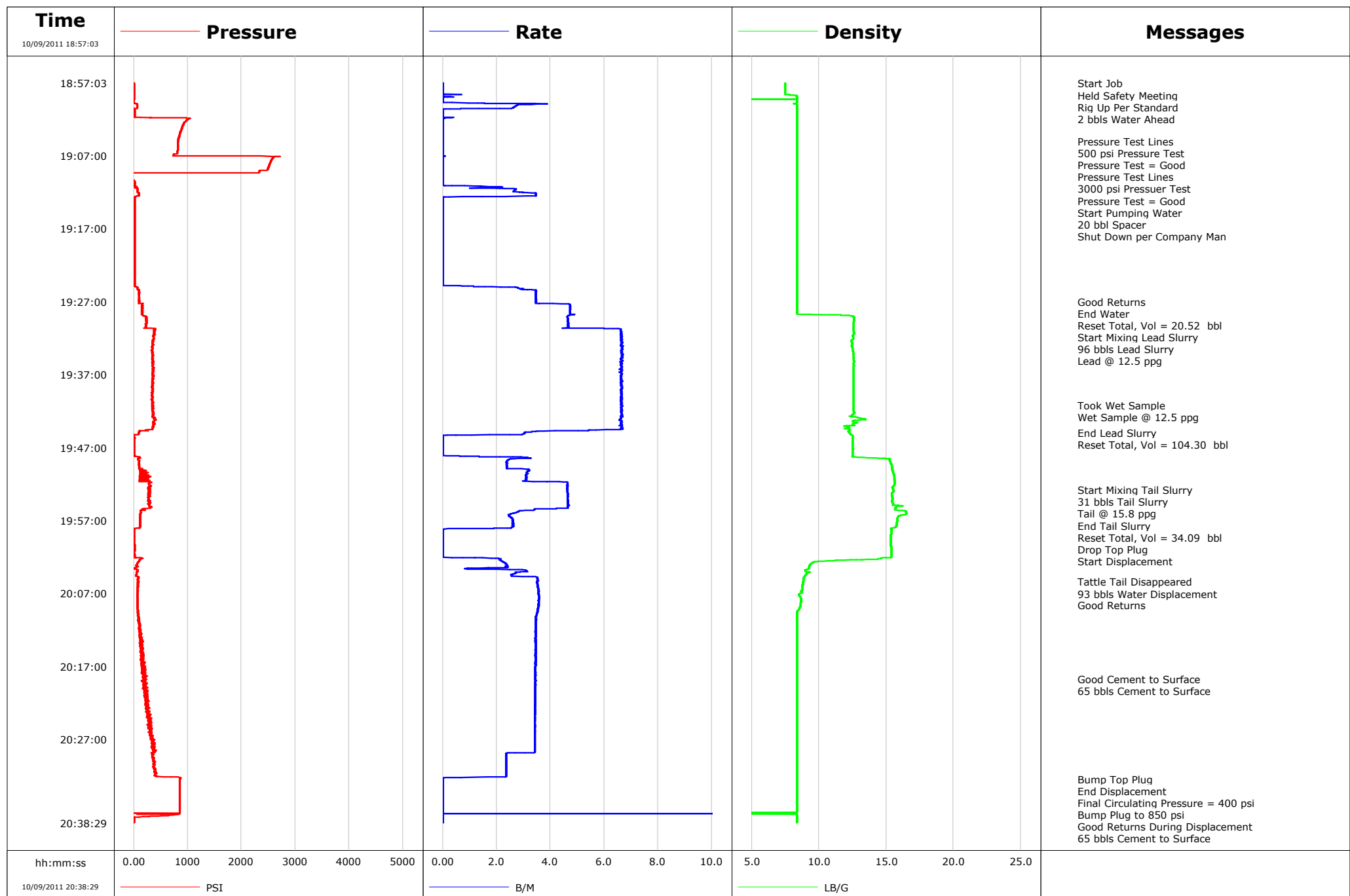


Well Federal 28-11BB
Field Parachute
Engineer Ryan Bowditch
Country United States

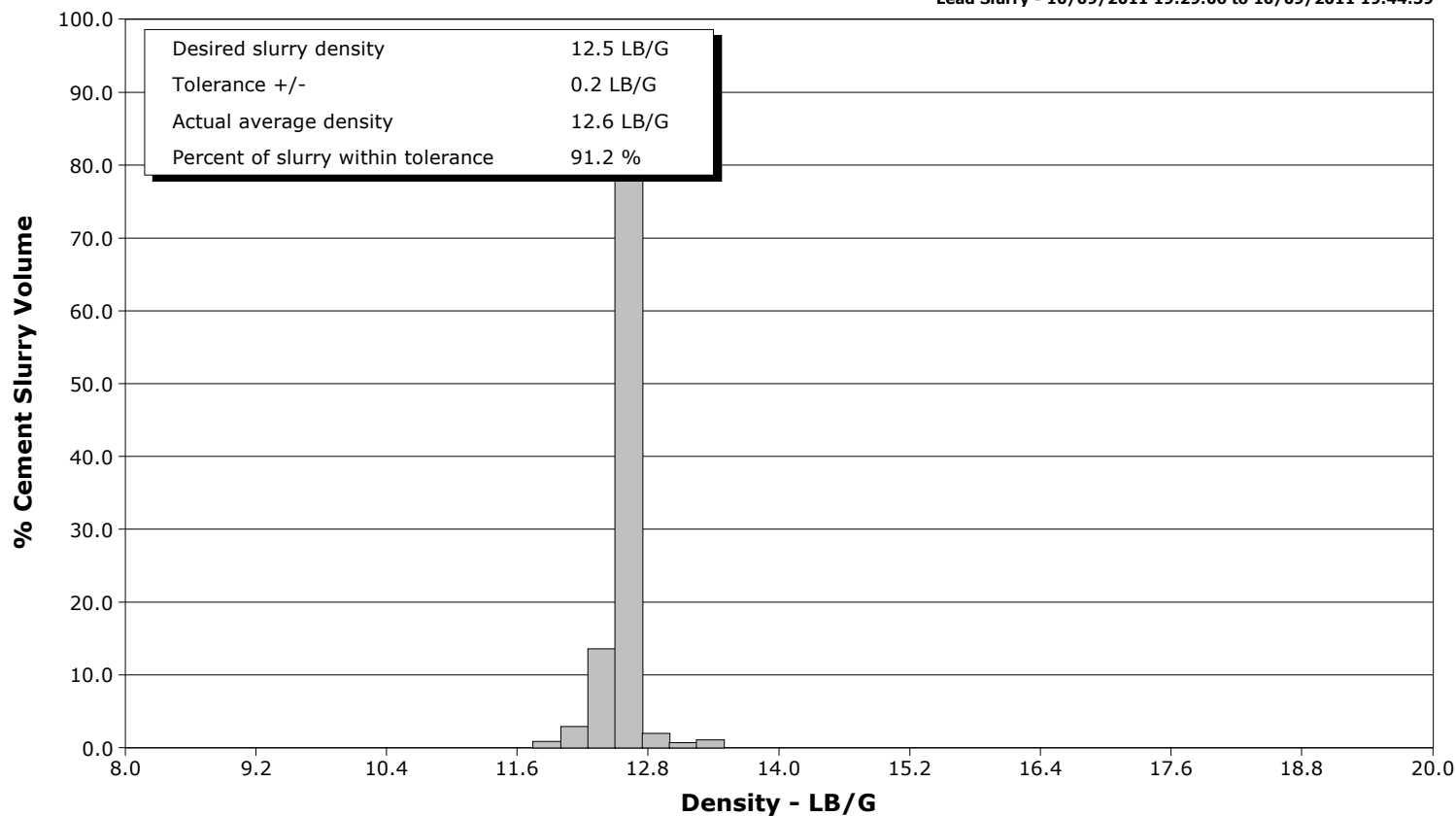
Client EnCana
SIR No. BC74-00100
Job Type 9 5/8" Surface Casing
Job Date 10-09-2011



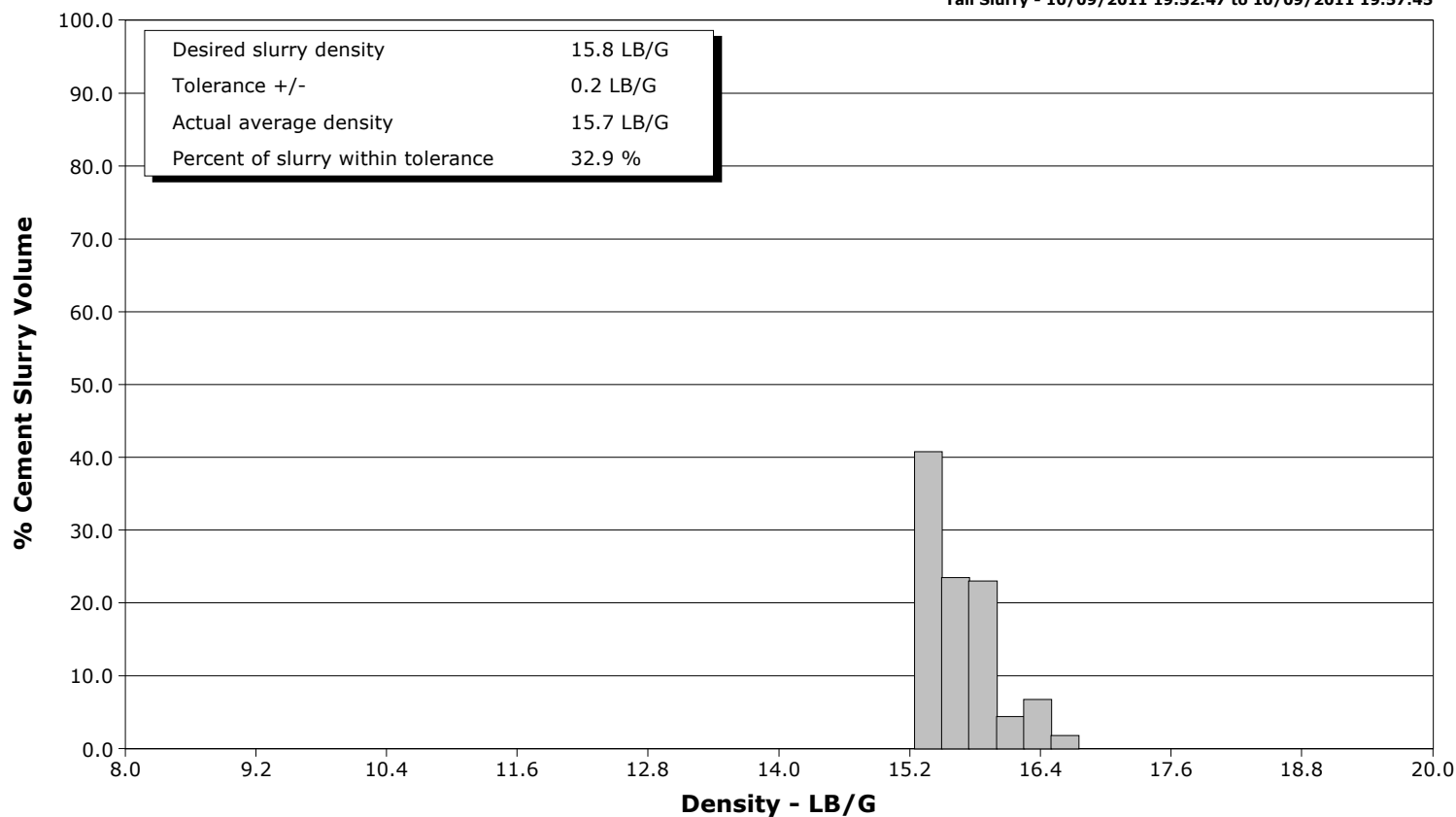
Well Federal 28-11BB
Field Parachute
Engineer Ryan Bowditch
Country United States

Client EnCana
SIR No. BC74-00100
Job Type 9 5/8" Surface Casing
Job Date 10-09-2011

Lead Slurry - 10/09/2011 19:29:06 to 10/09/2011 19:44:59



Tail Slurry - 10/09/2011 19:52:47 to 10/09/2011 19:57:45



Cementing Service Report

					Customer EnCana			Job Number BC74-00100	
Well Federal 28-11BB			Location (legal) PL-28		Schlumberger Location Grand Junction, CO			Job Start Oct/09/2011	
Field Parachute		Formation Name/Type Shale		Deviation 0 deg	Bit Size 12.3 in		Well MD 1244.0 ft		Well TVD 1244.0 ft
County Garfield		State/Province Colorado		BHP psi	BHST 95 degF		BHCT 82 degF		Pore Press. Gradient lb/gal
Well Master		API/UWI							
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			
				1244.0	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	
Service Line Cementing	Job Type 9 5/8" Surface Casing								
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	
				ft	ft				
				ft	ft			Diameter in	
				ft	ft				
				Treat Down Casing		Displacement 92.6 bbl		Packer Type	
								Packer Depth ft	
				Tubing Vol. bbl		Casing Vol. 96.2 bbl		Annular Vol. 73.0 bbl	
								Openhole Vol. 172.0 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 1244.0 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/09/2011		Arrived on Location Oct/09/2011		Leave Location Oct/09/2011		Collar Type Float		Tail Pipe Depth ft	
						Collar Depth 1198.0 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		
10/09/2011	18:57:03	3	0.0	7.48	0.0	0	Started Acquisition		
10/09/2011	18:57:05	3	0.0	7.48	0.0	0	Held Safety Meeting		
10/09/2011	18:58:43	3	0.0	8.03	0.0	0			
10/09/2011	19:00:23	63	2.6	8.36	1.7	0			
10/09/2011	19:02:03	1002	0.0	8.37	2.2	0			
10/09/2011	19:03:43	868	0.0	8.37	2.2	0			
10/09/2011	19:05:00	820	0.0	8.37	2.2	0	Pressure Test Lines		
10/09/2011	19:05:23	817	0.0	8.37	2.2	0			
10/09/2011	19:07:03	733	0.1	8.37	2.2	0			
10/09/2011	19:08:30	2505	0.0	8.37	2.2	0	Pressure Test Lines		
10/09/2011	19:08:43	2493	0.0	8.37	2.2	0			
10/09/2011	19:10:23	-3	0.0	8.37	2.2	0			
10/09/2011	19:10:57	18	0.0	8.37	2.2	0	Start Pumping Water		
10/09/2011	19:10:59	16	0.0	8.37	2.2	0	20 bbl Spacer		
10/09/2011	19:12:03	75	3.0	8.36	4.2	0			
10/09/2011	19:13:00	19	0.0	8.37	6.2	0	Shut Down per Company Man		
10/09/2011	19:13:43	18	0.0	8.36	6.2	0			
10/09/2011	19:15:23	13	0.0	8.37	6.2	0			
10/09/2011	19:17:03	13	0.0	8.37	6.2	0			
10/09/2011	19:18:43	13	0.0	8.37	6.2	0			
10/09/2011	19:20:23	13	0.0	8.37	6.2	0			

Well Federal 28-11BB			Field Parachute		Job Start Oct/09/2011		Customer EnCana		Job Number BC74-00100
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message		
10/09/2011	19:23:43	11	0.0	8.37	6.2	0			
10/09/2011	19:25:23	93	3.1	8.36	7.4	0			
10/09/2011	19:27:00	97	3.5	8.37	13.0	0	Good Returns		
10/09/2011	19:27:03	94	3.5	8.37	13.2	0			
10/09/2011	19:28:38	153	4.7	8.37	20.3	0	End Water		
10/09/2011	19:28:39	152	4.7	8.37	20.4	1	Reset Total, Vol = 20.52 bbl		
10/09/2011	19:28:43	151	4.7	8.37	20.7	2			
10/09/2011	19:29:06	235	4.6	12.56	22.5	5	Start Mixing Lead Slurry		
10/09/2011	19:29:07	236	4.6	12.60	22.6	5	96 bbls Lead Slurry		
10/09/2011	19:29:08	227	4.6	12.60	22.7	5	Lead @ 12.5 ppg		
10/09/2011	19:30:23	225	4.6	12.57	28.5	14			
10/09/2011	19:32:03	381	6.6	12.55	38.9	20			
10/09/2011	19:33:43	339	6.6	12.51	49.9	22			
10/09/2011	19:35:23	347	6.6	12.59	61.0	24			
10/09/2011	19:37:03	357	6.6	12.58	72.1	24			
10/09/2011	19:38:43	337	6.7	12.57	83.1	24			
10/09/2011	19:40:23	334	6.6	12.56	94.2	24			
10/09/2011	19:41:13	336	6.6	12.56	99.7	24	Took Wet Sample		
10/09/2011	19:41:19	362	6.6	12.56	100.4	24	Wet Sample @ 12.5 ppg		
10/09/2011	19:42:03	346	6.6	12.56	105.3	24			
10/09/2011	19:43:43	369	6.6	12.63	116.3	20			
10/09/2011	19:44:59	91	3.0	12.24	123.8	13	End Lead Slurry		
10/09/2011	19:45:22	4	0.0	12.48	124.8	0	Reset Total, Vol = 104.30 bbl		
10/09/2011	19:45:23	4	0.0	12.49	124.8	0			
10/09/2011	19:47:03	5	0.0	12.51	124.8	0			
10/09/2011	19:48:43	83	2.4	15.23	126.0	26			
10/09/2011	19:50:23	187	3.1	15.49	130.3	33			
10/09/2011	19:52:03	298	4.6	15.62	136.0	35			
10/09/2011	19:52:47	286	4.6	15.50	139.4	35	Start Mixing Tail Slurry		
10/09/2011	19:52:48	284	4.6	15.50	139.5	35	31 bbls Tail Slurry		
10/09/2011	19:53:03	282	4.6	15.54	140.6	35	Tail @ 15.8 ppg		
10/09/2011	19:53:43	286	4.6	15.43	143.7	36			
10/09/2011	19:55:23	286	4.2	15.69	151.4	23			
10/09/2011	19:57:03	113	2.6	15.86	156.1	43			
10/09/2011	19:57:45	113	2.6	15.76	157.9	66	End Tail Slurry		
10/09/2011	19:58:07	12	1.9	15.36	158.8	74	Reset Total, Vol = 34.09 bbl		
10/09/2011	19:58:08	2	1.2	15.35	158.9	75	Drop Top Plug		
10/09/2011	19:58:09	6	0.6	15.35	158.9	75	Start Displacement		
10/09/2011	19:58:43	9	0.0	15.35	158.9	0			
10/09/2011	20:00:23	10	0.0	15.35	158.9	0			
10/09/2011	20:02:03	9	0.0	15.37	158.9	38			
10/09/2011	20:03:43	39	1.5	9.16	162.2	13			
10/09/2011	20:05:23	79	3.5	8.84	167.2	12	Tattle Tail Disappeared		
10/09/2011	20:07:03	67	3.5	8.63	173.1	16			
10/09/2011	20:08:43	70	3.6	8.62	179.1	41			
10/09/2011	20:10:23	89	3.5	8.37	184.9	0			
10/09/2011	20:12:03	103	3.4	8.37	190.7	0			
10/09/2011	20:13:43	137	3.4	8.37	196.4	0			
10/09/2011	20:15:23	144	3.4	8.37	202.2	0			
10/09/2011	20:17:03	214	3.4	8.37	207.9	0			
10/09/2011	20:18:43	181	3.4	8.37	213.6	0			
10/09/2011	20:18:47	223	3.4	8.37	213.9	0	Good Cement to Surface		
10/09/2011	20:20:23	260	3.4	8.37	219.4	0			
10/09/2011	20:22:03	258	3.4	8.37	225.1	0			

Well Federal 28-11BB			Field Parachute		Job Start Oct/09/2011	Customer EnCana	Job Number BC74-00100
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message
10/09/2011	20:25:23	319	3.4	8.37	236.5	0	
10/09/2011	20:27:03	359	3.4	8.37	242.2	0	
10/09/2011	20:28:43	398	3.4	8.37	247.9	0	
10/09/2011	20:30:23	376	2.3	8.37	252.0	0	
10/09/2011	20:32:03	388	2.3	8.37	255.9	0	
10/09/2011	20:32:30	854	0.0	8.37	256.4	0	Bump Top Plug
10/09/2011	20:32:32	857	0.0	8.37	256.4	0	End Displacement
10/09/2011	20:32:33	859	0.0	8.37	256.4	0	Final Circulating Pressure = 400 psi
10/09/2011	20:33:03	854	0.0	8.37	256.4	0	Good Returns During Displacement
10/09/2011	20:33:43	854	0.0	8.37	256.4	0	
10/09/2011	20:35:23	855	0.0	8.37	256.4	0	
10/09/2011	20:37:03	856	0.0	8.37	256.4	0	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry 4.3	N2	Mud	Maximum Rate 6.5	Total Slurry 127.0	Mud 0.0	Spacer 20.0	N2					
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 2715	Final 5	Average 287	Bump Plug to 850	Breakdown	Type	Volume bbl	Density lb/gal					
Avg. N2 Percent %	Designed Slurry Volume 127.0 bbl	Displacement 93.0 bbl	Mix Water Temp 49 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 65.0 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 type="checkbox"/>					
						-	-					