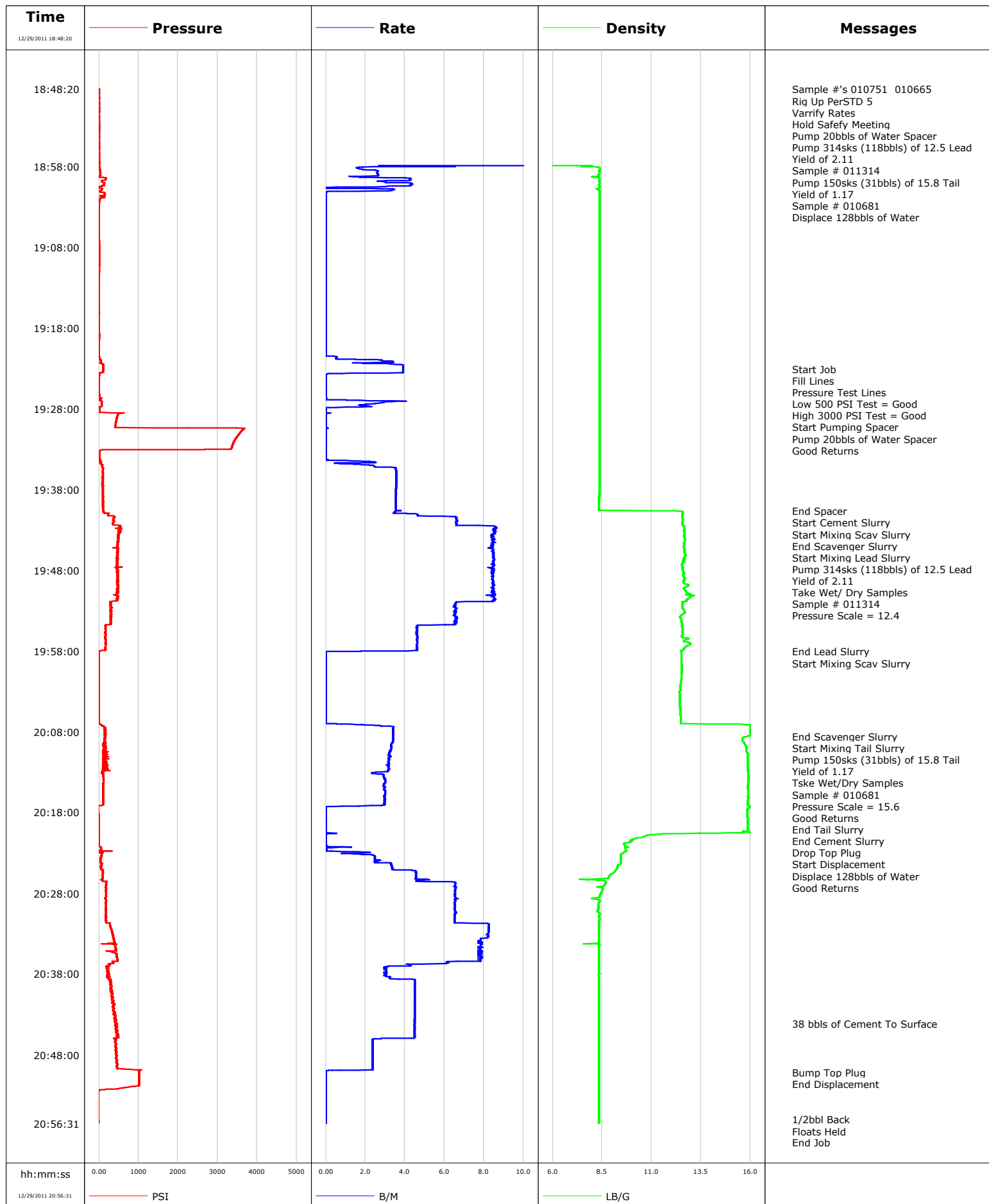


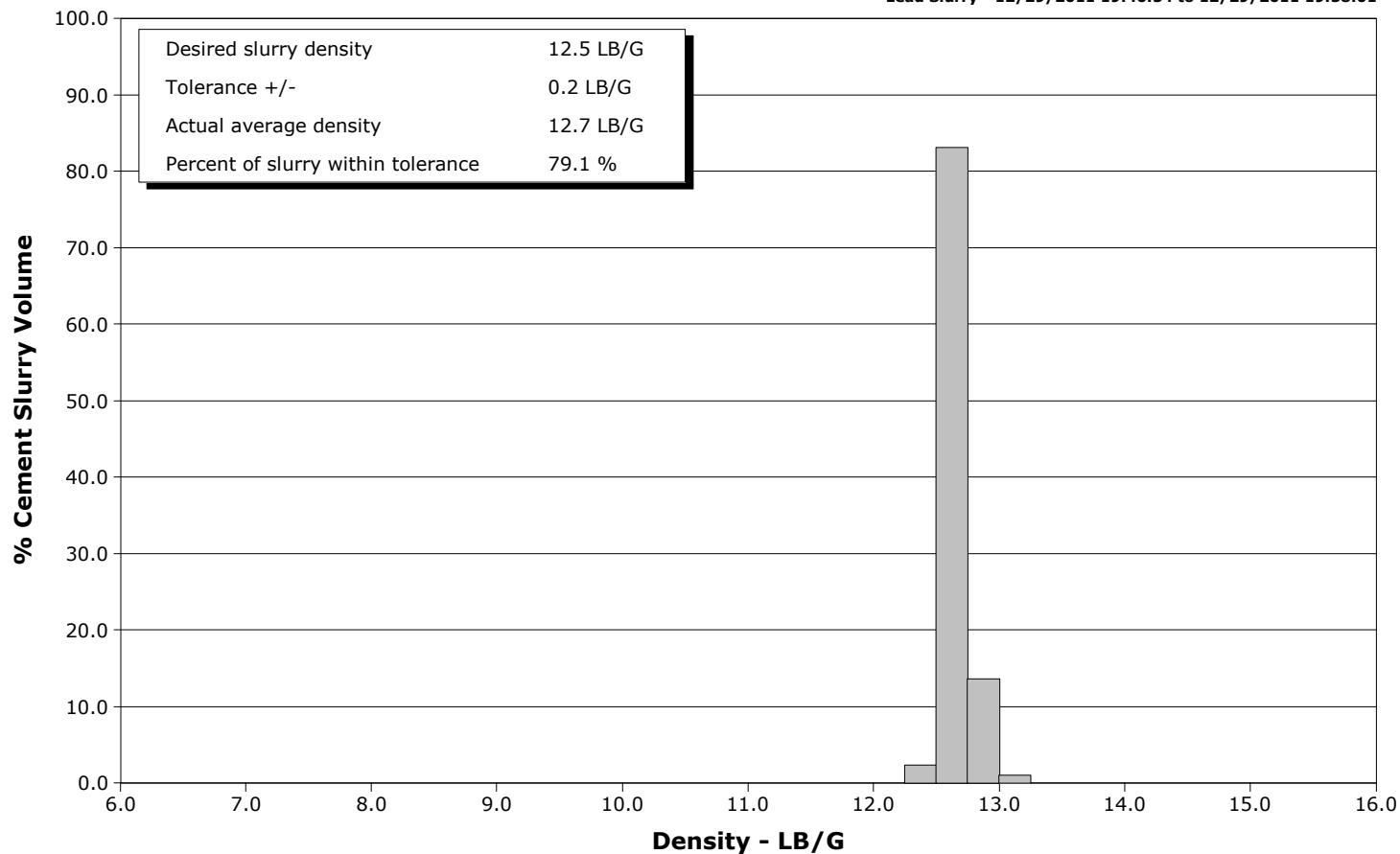
Well	HMU FEDERAL 16-14D	Client	EnCana
Field	Mamm Creek	SIR No.	682780
Engineer	Dant Ryan/Ted Hansen	Job Type	9 5/8 Surface
Country	United States	Job Date	12-29-2011



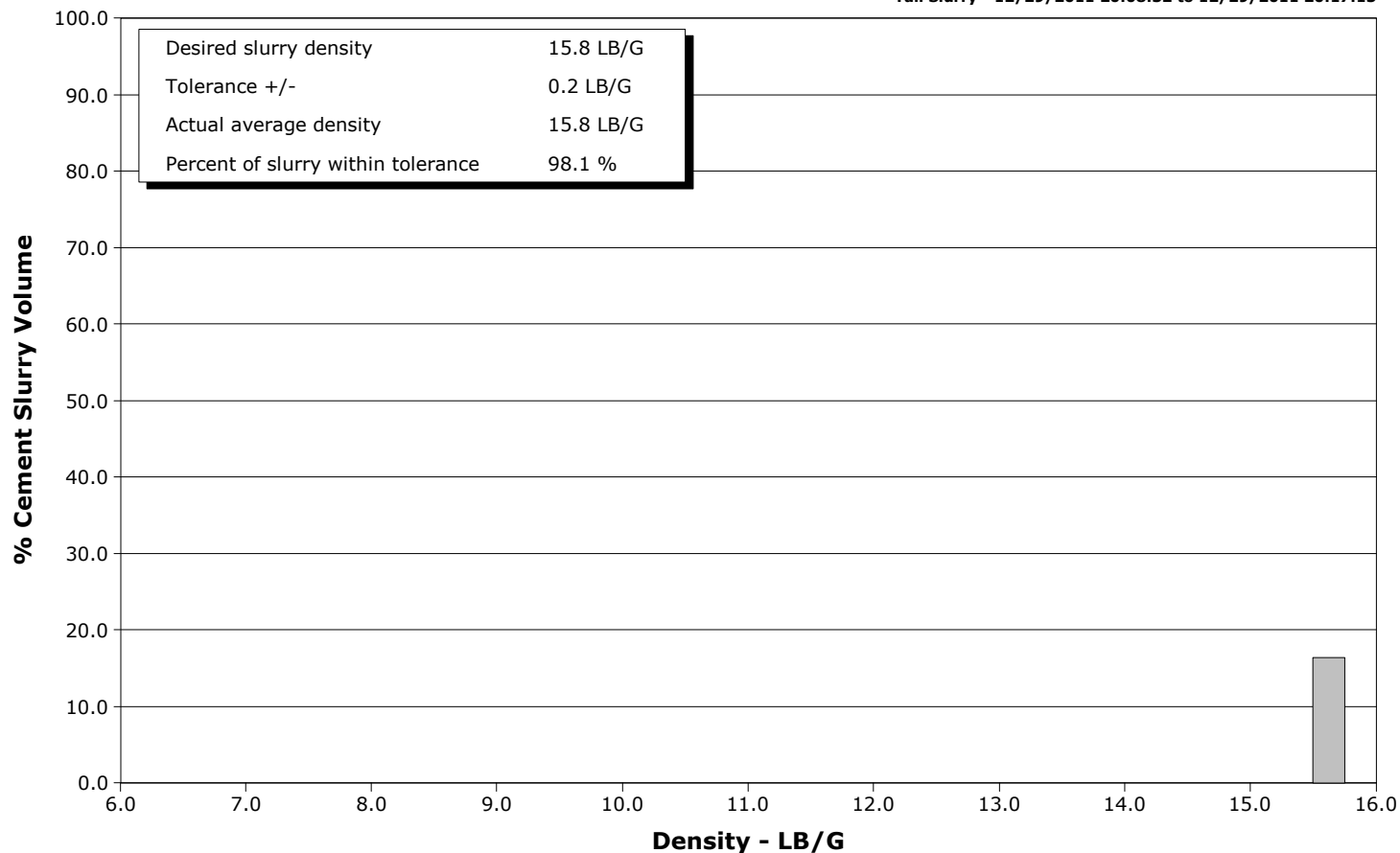
Well HMU FEDERAL 16-14D
Field Mamm Creek
Engineer Dant Ryan/Ted Hansen
Country United States

Client EnCana
SIR No. 682780
Job Type 9 5/8 Surface
Job Date 12-29-2011

Lead Slurry - 12/29/2011 19:40:54 to 12/29/2011 19:58:01



Tail Slurry - 12/29/2011 20:08:32 to 12/29/2011 20:17:13



				Customer EnCana			Job Number 682780			
Well HMU FEDERAL 16-14D HMU FEDERAL 16-14D				Location (legal) J 16 W			Schlumberger Location			
							Job Start Dec/29/2011			
Field Mamm Creek		Formation Name/Type Shale		Deviation deg		Bit Size 12.3 in		Well MD 1705.0 ft		
County Garfield		State/Province Colorado		BHP psi		BHST 100 degF		BHCT 86 degF		
Well Master 0631254655		API/UWI 050452040600						Pore Press. Gradient lb/gal		
Rig Name Nabors M-11		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		N/A		
						1705.0		9.6		
						36.0		K55		
						8RD				
Drilling Fluid Type Bentonite		Max. Density 9.45 lb/gal		Plastic Viscosity 8.000 cP		Tubing/Drill Pipe				
						T/D		Depth, ft		
						Size, in		Weight, lb/ft		
						Grade		Thread		
Service Line Cementing		Job Type 9 5/8 Surface						0.0		
								0.0		
Max. Allowed Tub. Press 300 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		
						ft		ft		
						Treat Down Casing		Displacement 128.0 bbl		
						Packer Type		Packer Depth ft		
						Tubing Vol. bbl		Casing Vol. 132.0 bbl		
						Annular Vol. 98.0 bbl		Openhole Vol. 233.0 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 844 psi				Shoe Type Float		Squeeze Type				
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1705.0 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 Dec/29/2011 15:00		Arrived on Location Dec/29/2011 15:00		Leave Location Dec/29/2011		Collar Type Float				
						Collar Depth 1654.0 ft				
						Sqz. Total Vol. bbl				
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
12/29/2011	18:48:20	0	25.0	-0.03	2966.9	Started Acquisition				
12/29/2011	18:48:22	0	25.0	-0.03	2967.7	Rig Up PerSTD 5				
12/29/2011	18:48:23	0	25.0	-0.03	2968.1	Pump 20bbls of Water Spacer				
12/29/2011	18:50:00	0	25.0	-0.03	3008.6					
12/29/2011	18:51:40	0	25.0	-0.03	3050.2					
12/29/2011	18:53:20	1	25.0	-0.03	3091.9					
12/29/2011	18:55:00	-0	25.0	-0.03	3133.6					
12/29/2011	18:56:40	0	25.0	-0.03	3175.2					
12/29/2011	18:58:20	29	1.8	8.38	3205.7					
12/29/2011	19:00:00	134	4.3	8.36	3210.6					
12/29/2011	19:01:40	44	0.0	8.37	3213.7					
12/29/2011	19:03:20	-8	0.0	8.36	3213.7					
12/29/2011	19:05:00	-7	0.0	8.36	3213.7					
12/29/2011	19:06:40	-0	0.0	8.36	3213.7					
12/29/2011	19:08:20	1	0.0	8.36	3213.7					
12/29/2011	19:10:00	1	0.0	8.36	3213.7					
12/29/2011	19:11:40	-3	0.0	8.36	3213.7					
12/29/2011	19:13:20	-3	0.0	8.36	3213.7					
12/29/2011	19:15:00	-5	0.0	8.36	3213.7					
12/29/2011	19:16:40	-4	0.0	8.36	3213.7					
12/29/2011	19:18:20	-4	0.0	8.36	3213.7					

Well			Field		Job Start		Customer		Job Number	
HMU FEDERAL 16-14D HMU FEDERAL 16-14D			Mamm Creek		Dec/29/2011		EnCana		682780	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
12/29/2011	19:21:40	1	0.5	8.38	3213.8					
12/29/2011	19:23:03	102	3.9	8.36	3218.0	Start Job				
12/29/2011	19:23:06	104	3.9	8.36	3218.2	Fill Lines				
12/29/2011	19:23:14	101	3.9	8.36	3218.7	Pressure Test Lines				
12/29/2011	19:23:15	98	3.9	8.36	3218.8	Low 500 PSI Test = Good				
12/29/2011	19:23:17	100	3.9	8.36	3218.9	Start Pumping Spacer				
12/29/2011	19:23:19	98	3.9	8.36	3219.1	Pump 20bbls of Water Spacer				
12/29/2011	19:23:20	100	3.9	8.36	3219.1					
12/29/2011	19:25:00	-7	0.0	8.36	0.0					
12/29/2011	19:26:40	58	0.0	8.36	0.0					
12/29/2011	19:28:20	7	0.0	8.36	2.2					
12/29/2011	19:30:00	417	0.0	8.36	2.2					
12/29/2011	19:31:40	3459	0.0	8.36	2.2					
12/29/2011	19:33:20	17	0.0	8.36	2.2					
12/29/2011	19:35:00	85	2.4	8.36	3.3					
12/29/2011	19:36:40	106	3.6	8.36	9.0					
12/29/2011	19:38:20	101	3.5	8.35	14.9					
12/29/2011	19:40:00	105	3.5	8.35	20.8					
12/29/2011	19:40:38	101	3.6	12.12	23.1	End Spacer				
12/29/2011	19:40:39	112	3.6	12.35	23.1	Start Cement Slurry				
12/29/2011	19:40:41	112	3.5	12.52	23.3	Start Mixing Scav Slurry				
12/29/2011	19:40:53	140	3.5	12.57	24.0	End Scavenger Slurry				
12/29/2011	19:40:54	140	3.4	12.58	24.0	Start Mixing Lead Slurry				
12/29/2011	19:41:05	231	4.7	12.57	24.8	Pump 314sks (118bbls) of 12.5 Lead				
12/29/2011	19:41:06	230	4.7	12.57	24.9	Yield of 2.11				
12/29/2011	19:41:40	370	6.6	12.58	28.3					
12/29/2011	19:42:04	349	6.6	12.56	30.9	Sample # 011314				
12/29/2011	19:42:38	538	8.6	12.67	35.0	Pressure Scale = 12.4				
12/29/2011	19:43:20	509	8.5	12.68	41.0					
12/29/2011	19:45:00	475	8.4	12.62	55.1					
12/29/2011	19:46:40	445	8.5	12.67	69.2					
12/29/2011	19:48:20	462	8.5	12.66	83.3					
12/29/2011	19:50:00	486	8.5	12.81	97.4					
12/29/2011	19:51:40	444	8.5	12.78	111.5					
12/29/2011	19:53:20	301	6.5	12.65	122.8					
12/29/2011	19:55:00	165	4.6	12.56	133.3					
12/29/2011	19:56:40	160	4.6	12.69	141.0					
12/29/2011	19:58:01	-5	1.8	12.50	147.1	End Lead Slurry				
12/29/2011	19:58:06	2	0.0	12.50	147.1	Start Mixing Scav Slurry				
12/29/2011	19:58:20	-4	0.0	12.50	147.1					
12/29/2011	20:00:00	-7	0.0	12.52	147.1					
12/29/2011	20:01:40	-6	0.0	12.49	147.1					
12/29/2011	20:03:20	-6	0.0	12.42	147.1					
12/29/2011	20:05:00	-7	0.0	12.45	147.1					
12/29/2011	20:06:40	-7	0.0	12.48	147.1					
12/29/2011	20:08:20	139	3.4	16.01	151.2					
12/29/2011	20:08:32	151	3.4	15.90	151.9	End Scavenger Slurry				
12/29/2011	20:09:34	151	3.3	15.73	155.4	Pump 150sks (31bbls) of 15.8 Tail				
12/29/2011	20:09:35	110	3.3	15.73	155.5	Tske Wet/Dry Samples				
12/29/2011	20:09:36	111	3.3	15.73	155.5	Pressure Scale = 15.6				
12/29/2011	20:09:37	139	3.3	15.74	155.6	Good Returns				
12/29/2011	20:10:00	110	3.3	15.81	156.8					
12/29/2011	20:11:40	220	3.2	15.87	162.2					
12/29/2011	20:13:20	109	2.9	15.88	167.3					

Well			Field		Job Start		Customer		Job Number	
HMU FEDERAL 16-14D HMU FEDERAL 16-14D			Mamm Creek		Dec/29/2011		EnCana		682780	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
12/29/2011	20:16:40	108		3.0	15.89		177.2			
12/29/2011	20:17:13	-23		0.9	16.25		178.8		End Tail Slurry	
12/29/2011	20:17:14	-22		0.4	16.31		178.8		End Cement Slurry	
12/29/2011	20:17:16	-21		0.0	16.34		178.8		Drop Top Plug	
12/29/2011	20:17:18	-20		0.0	16.35		178.8		Displace 128bbls of Water	
12/29/2011	20:18:20	-12		0.0	15.85		178.8			
12/29/2011	20:20:00	-11		0.0	15.87		178.8			
12/29/2011	20:21:40	-12		0.0	9.96		178.8			
12/29/2011	20:23:20	63		2.5	9.45		179.9			
12/29/2011	20:25:00	67		3.4	9.24		184.7			
12/29/2011	20:26:40	180		6.5	8.70		192.4			
12/29/2011	20:28:20	175		6.5	8.38		203.3			
12/29/2011	20:30:00	178		6.5	8.30		214.2			
12/29/2011	20:31:40	262		6.5	8.34		225.1			
12/29/2011	20:33:20	358		8.2	8.35		238.7			
12/29/2011	20:35:00	434		7.8	8.35		251.8			
12/29/2011	20:36:40	364		6.1	8.35		264.5			
12/29/2011	20:38:20	271		3.2	8.33		270.2			
12/29/2011	20:40:00	312		4.5	8.34		277.3			
12/29/2011	20:41:40	351		4.5	8.34		284.8			
12/29/2011	20:43:20	421		4.5	8.35		292.3			
12/29/2011	20:44:09	433		4.5	8.35		296.0		38 bbls of Cement To Surface	
12/29/2011	20:45:00	455		4.5	8.35		299.8			
12/29/2011	20:46:40	433		2.4	8.35		305.8			
12/29/2011	20:48:20	447		2.4	8.35		309.8			
12/29/2011	20:50:00	1002		0.0	8.35		313.5			
12/29/2011	20:50:11	1011		0.0	8.35		313.5		Bump Top Plug	
12/29/2011	20:50:12	1017		0.0	8.35		313.5		End Displacement	
12/29/2011	20:51:40	1009		0.0	8.35		313.5			
12/29/2011	20:53:20	-15		0.0	8.35		313.5			
12/29/2011	20:55:00	-15		0.0	8.35		313.5			
12/29/2011	20:56:01	-16		0.0	8.35		313.5		1/2bbl Back	
12/29/2011	20:56:03	-15		0.0	8.35		313.5		Floats Held	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 6.9	N2	Mud	Maximum Rate 8.5	Total Slurry 290.8	Mud 0.0	Spacer 0.3	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3688	Final -15	Average 326	Bump Plug to 1000	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 149.0 bbl		Displacement 134.8 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 38.0 bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative Jeff Johnson			Schlumberger Supervisor Dant Ryan/Ted Hansen			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	