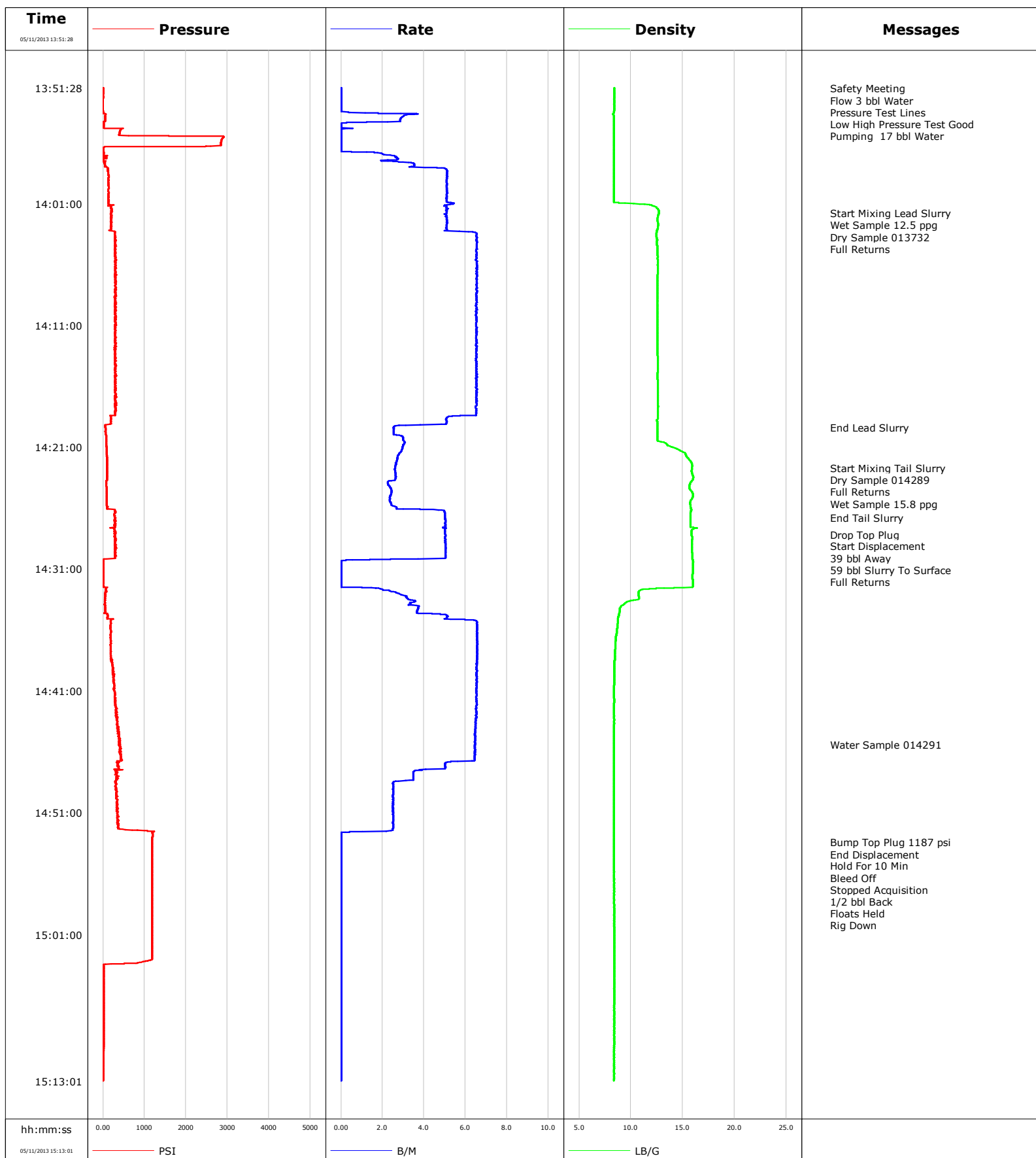


Well Alp Fee 24-12A
Field Mamm Creek
Engineer Travis Willardson
Country United States

Client EnCana
SIR No. CFAO-00430
Job Type 9 5/8
Job Date 05-11-2013



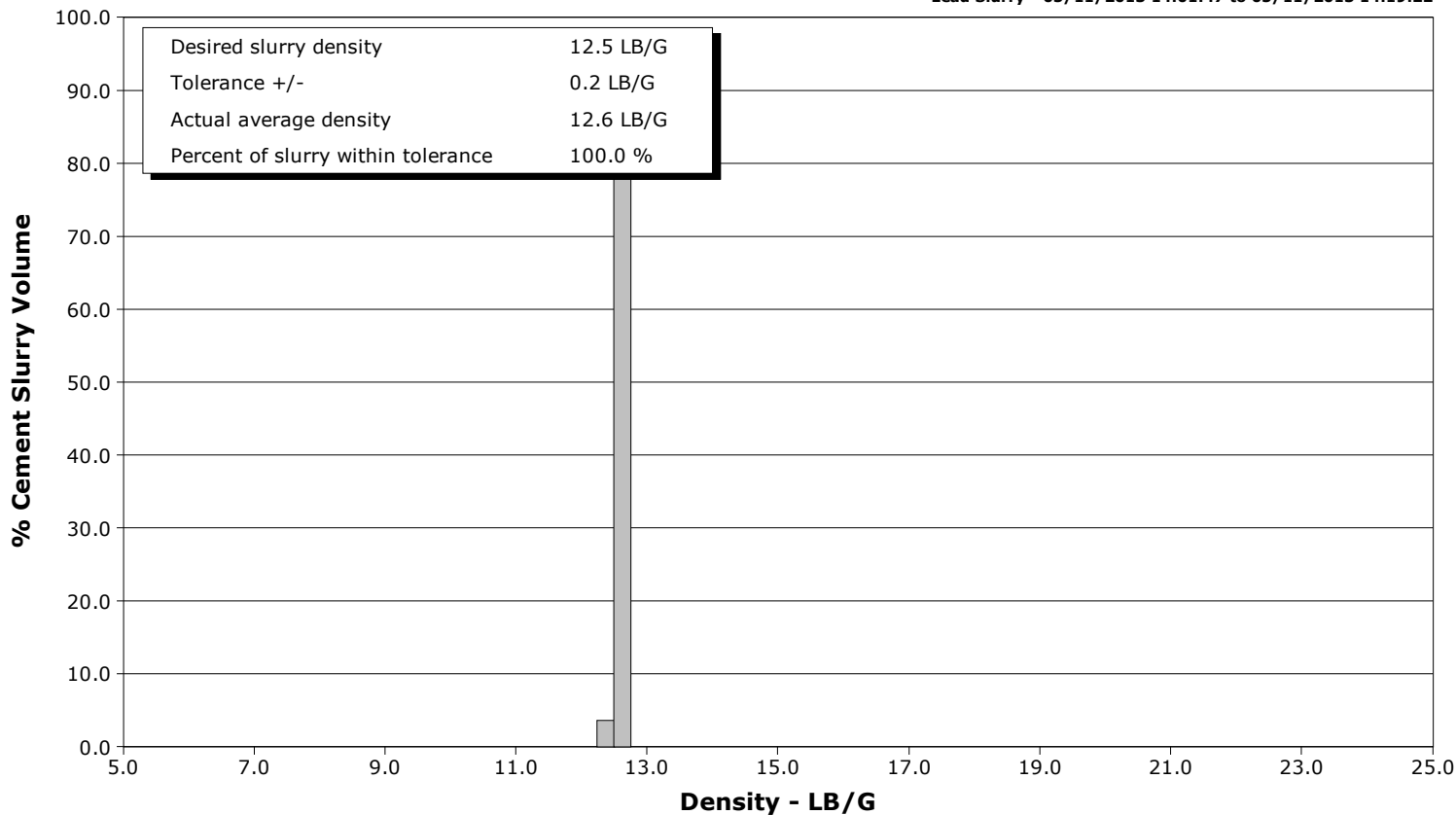
Schlumberger

Cementing Qa/Qc Density Report

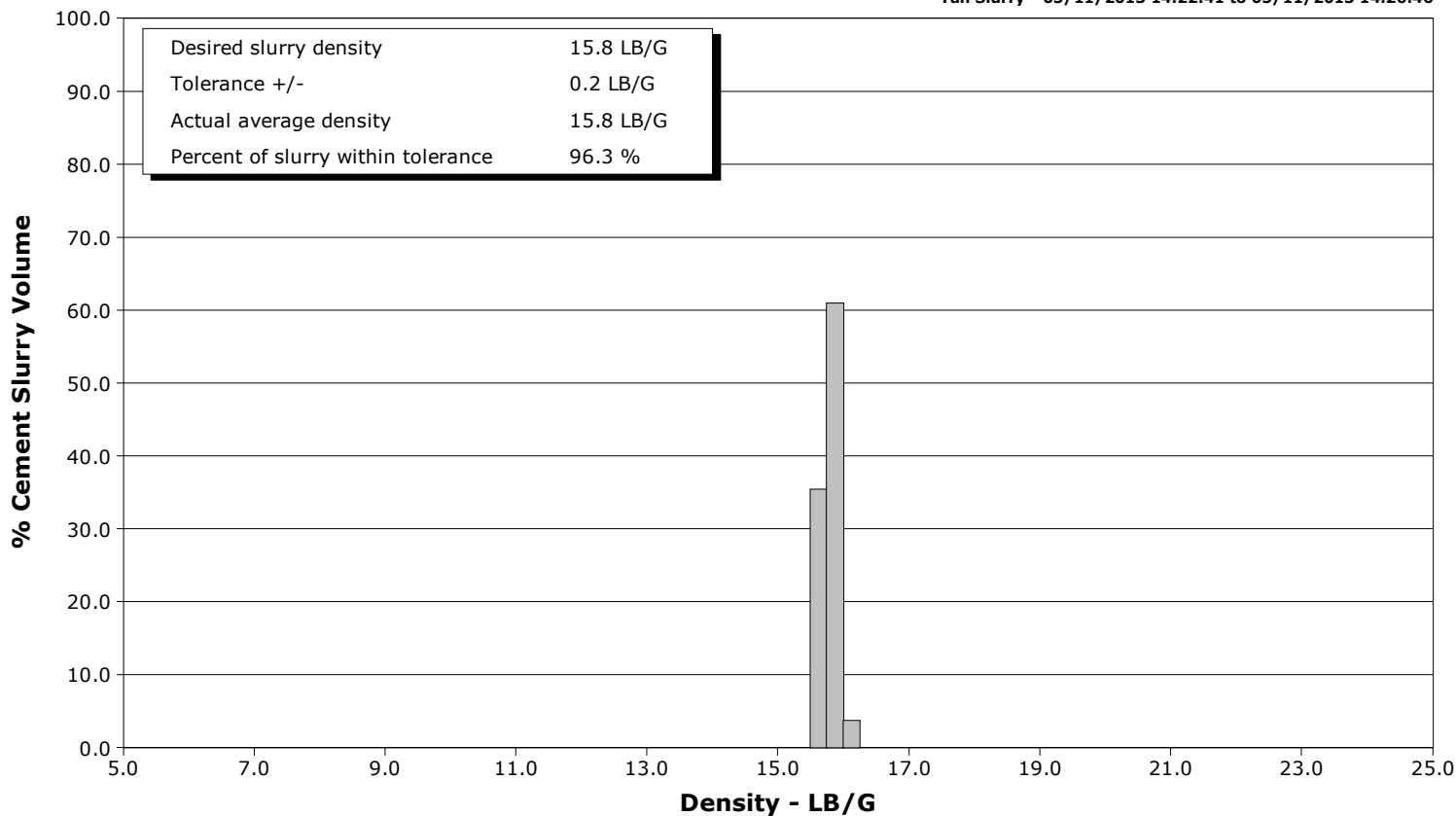
Well Alp Fee 24-12A
Field Mamm Creek
Engineer Travis Willardson
Country United States

Client EnCana
SIR No. CFAO-00430
Job Type 9 5/8
Job Date 05-11-2013

Lead Slurry - 05/11/2013 14:01:47 to 05/11/2013 14:19:22



Tail Slurry - 05/11/2013 14:22:41 to 05/11/2013 14:26:46





Cementing Service Report

				Customer EnCana			Job Number CFAO-00430								
Well Alp Fee 24-12A 24-12A			Location (legal) J24NW			Schlumberger Location Grand Junction			Job Start May/11/2013						
Field Mamm Creek		Formation Name/Type Dirty-Sandstone			Deviation		Bit Size 3.0 in		Well MD 1313.0 ft		Well TVD				
County Garfield		State/Province Colorado			BHP		BHST 97 degF		BHCT 86 degF		Pore Press. Gradient				
Well Master 0631429187		API/UWI 05045218080000													
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		16.000		65.0		N/A		N/A	
						1313.0		9.630		35.0		J55		8RD	
Drilling Fluid Type Bentonite			Max. Density		Plastic Viscosity		Tubing/Drill Pipe								
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type 9 5/8													
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole									
						Top,		Bottom,				No. of Shots		Total Interval	
Service Instructions 20 bbl Water 12.5 # 319 sks 2.11 ft3/sk 15.8 # 150 sks 1.16 ft3/sk														Diameter	
Treat Down Casing				Displacement 98.0 bbl		Packer Type				Packer Depth					
Tubing Vol.				Casing Vol.		Annular Vol. 76.0 bbl		Openhole Vol. 181.0 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 650 psi						Shoe Type Float			Squeeze Type						
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 1313.0 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 May/11/2013		Arrived on Location May/11/2013		Leave Location May/11/2013		Collar Type Float			Tail Pipe Depth						
						Collar Depth 1267.0 ft			Sqz. Total Vol.						
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M		Density LB/G		Volume BBL		Message					
05/11/2013	12:14:22									Started Acquisition					
05/11/2013	13:51:28	4		0.0		8.38		0.0							
05/11/2013	13:51:32									Safety Meeting					
05/11/2013	13:51:32									Flow 3 bbl Water					
05/11/2013	13:51:32	4		0.0		8.38		0.0							
05/11/2013	13:51:35									Pressure Test Lines					
05/11/2013	13:51:35	5		0.0		8.38		0.0							
05/11/2013	13:51:37									Low High Pressure Test Good					
05/11/2013	13:51:37									Pumping 17 bbl Water					
05/11/2013	13:51:37	4		0.0		8.38		0.0							
05/11/2013	13:54:22	19		0.3		8.36		2.3							
05/11/2013	13:57:42	34		3.5		8.37		4.6							
05/11/2013	14:01:02	137		5.3		11.31		21.1							
05/11/2013	14:01:47									Start Mixing Lead Slurry					
05/11/2013	14:01:47	193		5.1		12.69		25.0							
05/11/2013	14:01:58									Wet Sample 12.5 ppg					
05/11/2013	14:01:58	207		5.1		12.63		25.9							
05/11/2013	14:02:18									Dry Sample 013732					
05/11/2013	14:02:18	198		5.1		12.53		27.6							
05/11/2013	14:03:02									Full Returns					
05/11/2013	14:03:02	203		5.1		12.58		31.3							

Well			Field		Job Start	Customer	Job Number
Alp Fee 24-12A 24-12A			Mamm Creek		May/11/2013	EnCana	CFAO-00430
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
05/11/2013	14:07:42	286	6.5	12.56	61.5		
05/11/2013	14:11:02	305	6.5	12.55	83.2		
05/11/2013	14:14:22	298	6.5	12.58	105.0		
05/11/2013	14:17:42	289	6.5	12.62	126.7		
05/11/2013	14:19:22					End Lead Slurry	
05/11/2013	14:19:22	58	2.6	12.56	135.7		
05/11/2013	14:21:02	86	3.0	14.15	140.4		
05/11/2013	14:22:41					Start Mixing Tail Slurry	
05/11/2013	14:22:41	102	2.6	15.90	145.0		
05/11/2013	14:22:44					Dry Sample 014289	
05/11/2013	14:22:44	100	2.6	15.89	145.1		
05/11/2013	14:22:45					Full Returns	
05/11/2013	14:22:45	100	2.6	15.89	145.2		
05/11/2013	14:23:21					Wet Sample 15.8 ppg	
05/11/2013	14:23:21	104	2.6	15.99	146.7		
05/11/2013	14:24:22	86	2.4	15.65	149.2		
05/11/2013	14:26:46					End Tail Slurry	
05/11/2013	14:26:46	282	5.0	15.74	156.8		
05/11/2013	14:27:42	276	5.0	16.04	161.5		
05/11/2013	14:28:08					Drop Top Plug	
05/11/2013	14:28:08	292	5.0	15.81	163.6		
05/11/2013	14:28:09					Start Displacement	
05/11/2013	14:28:09	292	5.0	15.81	163.7		
05/11/2013	14:28:10					39 bbl Away	
05/11/2013	14:28:10	295	5.0	15.81	163.8		
05/11/2013	14:28:11					59 bbl Slurry To Surface	
05/11/2013	14:28:11	295	5.0	15.81	163.9		
05/11/2013	14:28:12					Full Returns	
05/11/2013	14:28:12	282	5.0	15.82	164.0		
05/11/2013	14:31:02	7	0.0	15.96	174.0		
05/11/2013	14:34:22	59	3.7	8.93	179.7		
05/11/2013	14:37:42	179	6.6	8.47	200.0		
05/11/2013	14:41:02	287	6.5	8.38	221.8		
05/11/2013	14:44:22	356	6.5	8.37	243.5		
05/11/2013	14:45:25					Water Sample 014291	
05/11/2013	14:45:25	411	6.5	8.38	250.3		
05/11/2013	14:47:42	305	3.5	8.38	263.4		
05/11/2013	14:51:02	344	2.5	8.38	272.4		
05/11/2013	14:53:25					Bump Top Plug 1187 psi	
05/11/2013	14:53:25	1188	0.0	8.38	276.2		
05/11/2013	14:53:26					End Displacement	
05/11/2013	14:53:26	1188	0.0	8.38	276.2		
05/11/2013	14:53:29					Hold For 10 Min	
05/11/2013	14:53:29					Bleed Off	
05/11/2013	14:53:29	1188	0.0	8.38	276.2		
05/11/2013	14:54:22	1186	0.0	8.38	276.2		
05/11/2013	14:57:42	1183	0.0	8.38	276.2		
05/11/2013	15:01:02	1184	0.0	8.38	276.2		
05/11/2013	15:04:22	14	0.0	8.38	276.2		
05/11/2013	15:07:42	13	0.0	8.38	276.2		
05/11/2013	15:11:02	11	0.0	8.38	276.2		
05/11/2013	15:13:03					Stopped Acquisition	
05/11/2013	15:13:03					1/2 bbl Back	
05/11/2013	15:13:03					Floats Held	

Well Alp Fee 24-12A 24-12A	Field Mamm Creek	Job Start May/11/2013	Customer EnCana	Job Number CFAO-00430
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.0	N2	Mud 0.0	Maximum Rate 6.6	Total Slurry 153.0	Mud 0.0	Spacer 0.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2910	Final 11	Average 357	Bump Plug to 1130	Breakdown	Type	Volume 250.0 bbl	Density	
Avg. N2 Percent	Designed Slurry Volume 151.0 bbl		Displacement 100.0 bbl	Mix Water Temp 58 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume		
					Washed Thru Perfs <input type="checkbox"/>	To		
Customer or Authorized Representative Tony Ketterling			Schlumberger Supervisor Travis Willardson			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
					-	-		