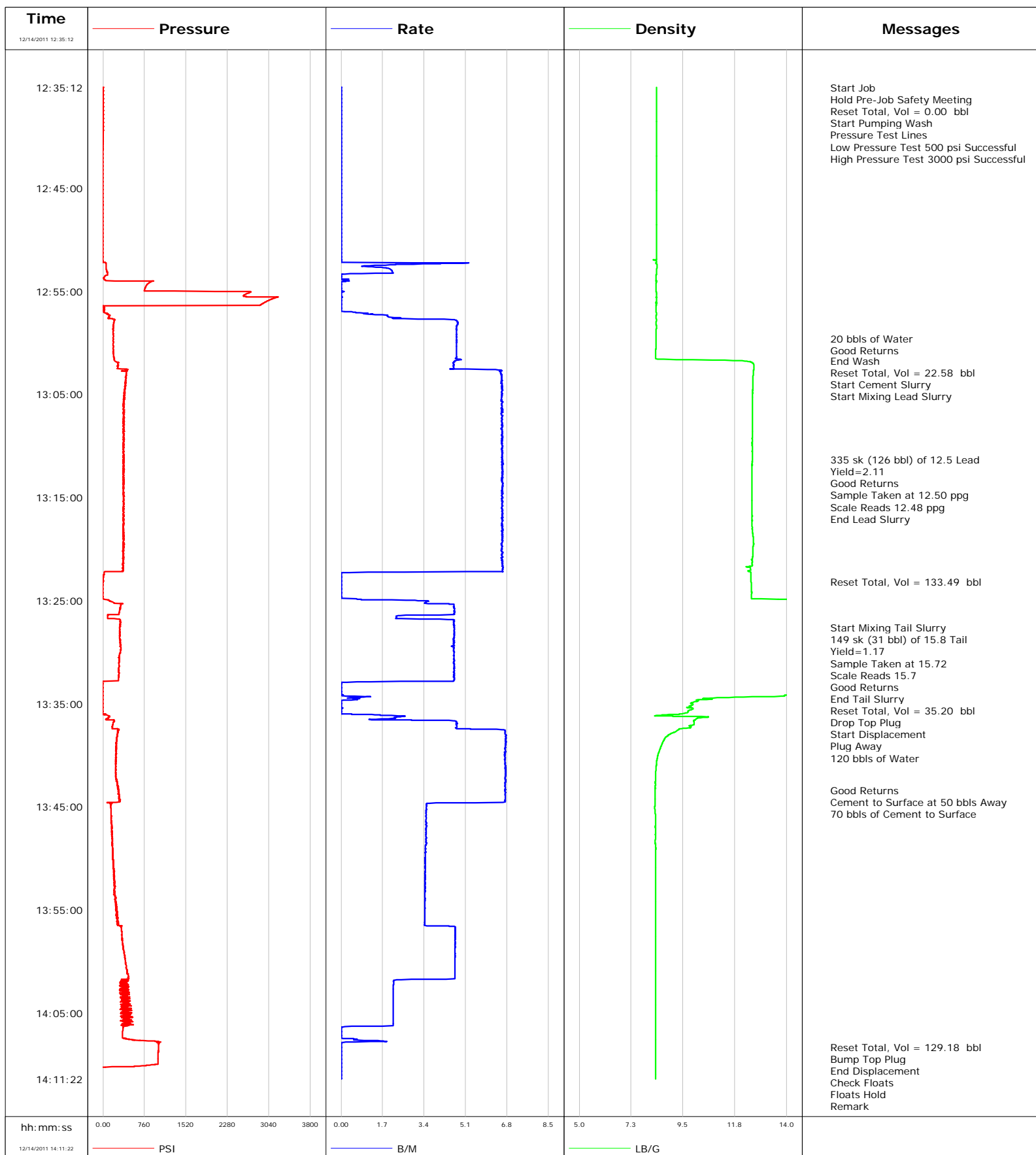


Well HMU Federal 16-16C2 J1
Field Mamm Creek
Engineer Jeff Eulberg
Country United States

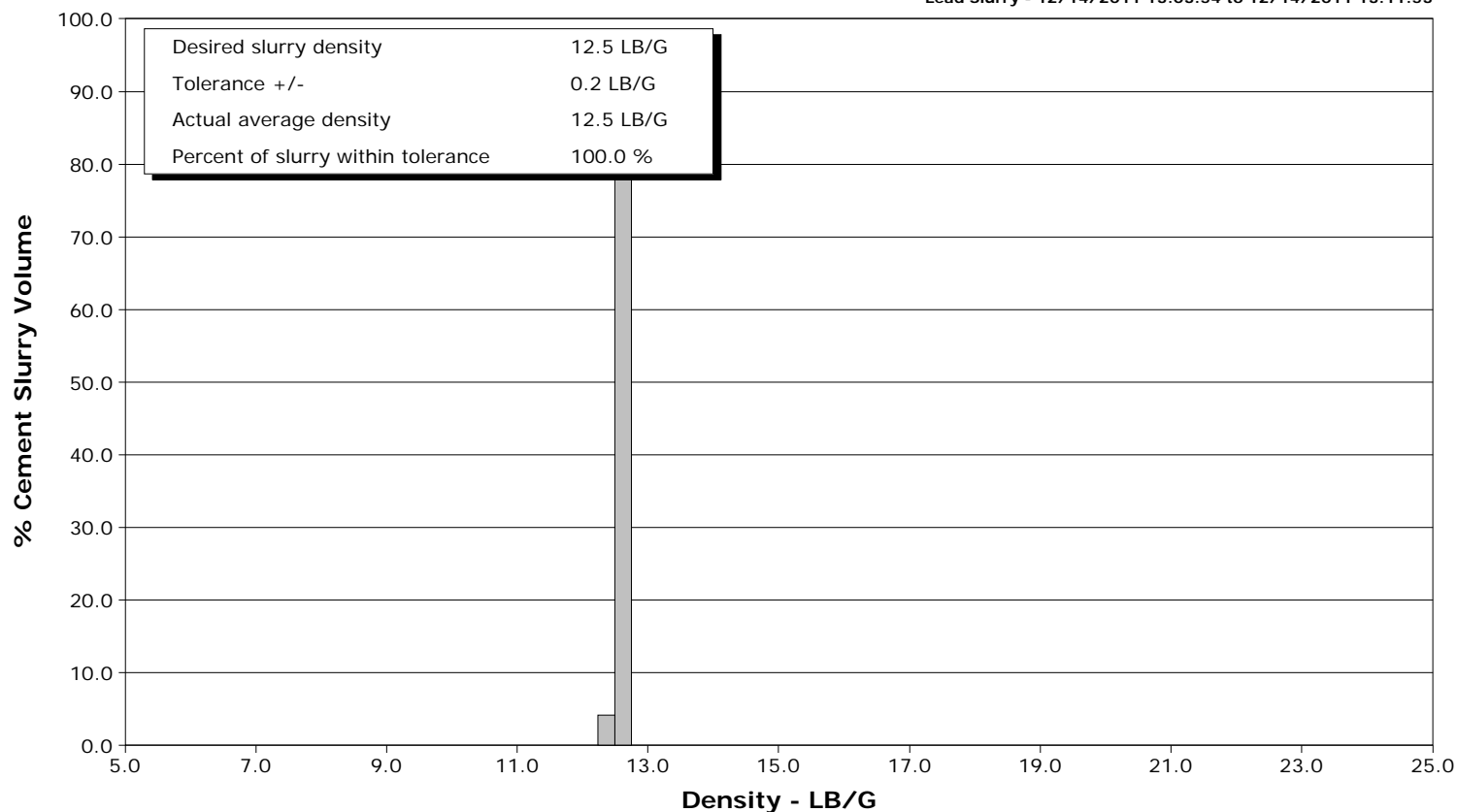
Client Encana
SIR No. 682775
Job Type 9 5/8" Surface
Job Date 12-14-2011



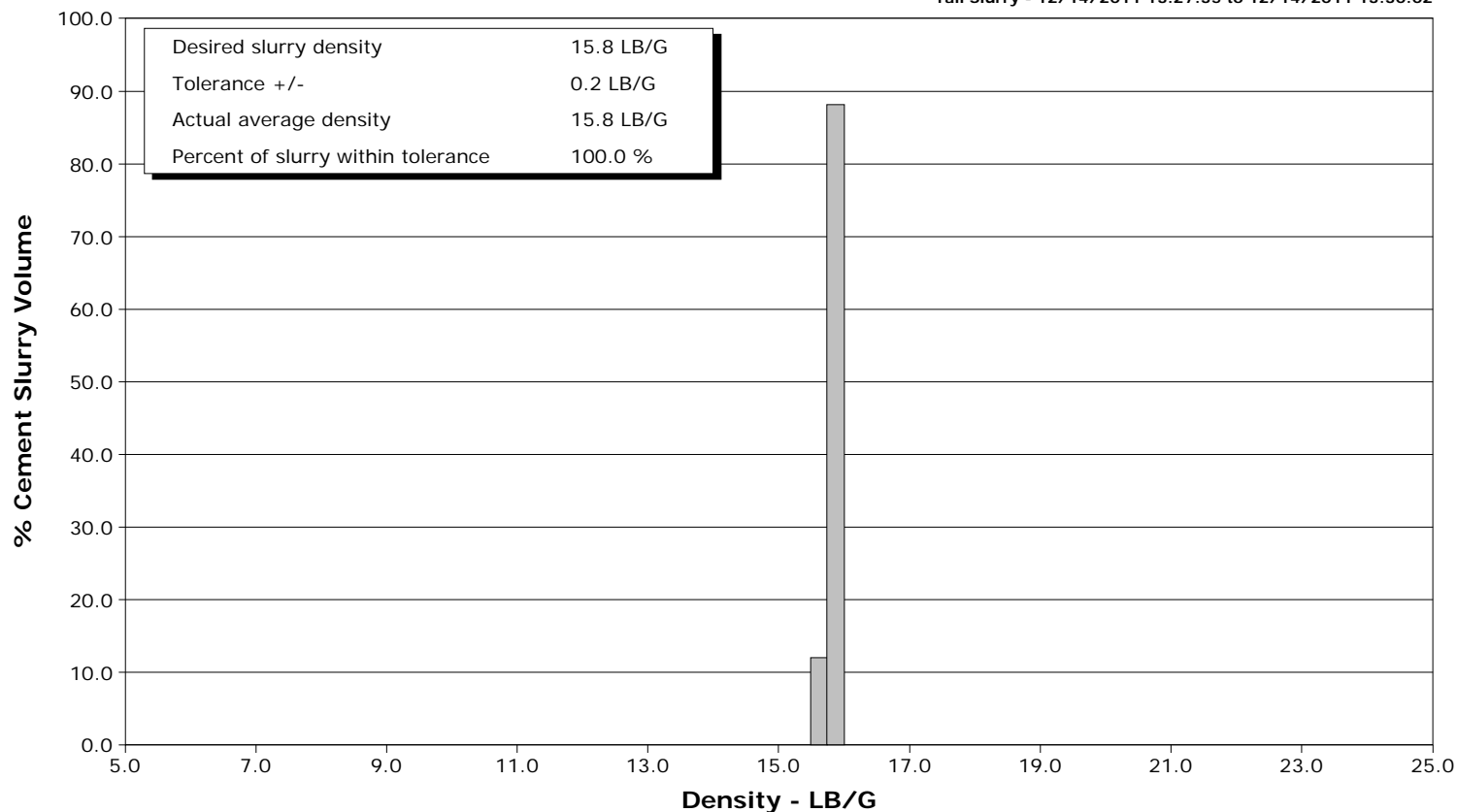
Well HMU Federal 16-16C2 J1
Field Mamm Creek
Engineer Jeff Eulberg
Country United States

Client Encana
SIR No. 682775
Job Type 9 5/8" Surface
Job Date 12-14-2011

Lead Slurry - 12/14/2011 13:03:54 to 12/14/2011 13:11:53



Tail Slurry - 12/14/2011 13:27:35 to 12/14/2011 13:30:02



Cementing Service Report

					Customer Encana			Job Number 682775	
Well HMU Federal 16-16C2 J1			Location (legal)			Schlumberger Location Grand Junction		Job Start Dec/14/2011	
Field Mamm Creek		Formation Name/Type		Deviation deg		Bit Size in		Well MD 1610.0 ft	
County Garfield		State/Province Colorado		BHP psi		BHST 100 degF		BHCT 86 degF	
Well Master 0631254657		API/UWI						Pore Press. Gradient lb/gal	
Rig Name Nabors M11		Drilled For Gas		Service Via Land		Casing/Liner			
						Depth, ft		Size, in	
						Weight, lb/ft		Grade	
Offshore Zone		Well Class New		Well Type Development		1610.0		9.6	
						0.0		0.0	
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe			
						T/D		Depth, ft	
						Size, in		Weight, lb/ft	
Service Line Cementing		Job Type 9 5/8" Surface							
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection		Perforations/Open Hole			
						Top, ft		Bottom, ft	
						shot/ft		No. of Shots	
Service Instructions						ft		ft	
						ft		ft	
						ft		ft	
		Treat Down Casing		Displacement 121.0 bbl		Packer Type		Packer Depth ft	
		Tubing Vol. bbl		Casing Vol. bbl		Annular Vol. bbl		Openhole Vol. bbl	
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>				Casing Tools		Squeeze Job	
Lift Pressure psi				Shoe Type Guide		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1610.0 ft		Tool Type			
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type		Tool Depth ft	
Cement Head Type				Stage Tool Depth ft		Tail Pipe Size in			
Job Scheduled For Dec/14/2011		Arrived on Location Dec/14/2011		Leave Location Dec/14/2011		Collar Type Float		Tail Pipe Depth ft	
						Collar Depth 1563.0 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		
12/14/2011	12:35:12	-0	0.0	8.35	0.0	0	Started Acquisition		
12/14/2011	12:35:14	0	0.0	8.35	0.0	0	Start Job		
12/14/2011	12:35:15	0	0.0	8.35	0.0	0	Hold Pre-Job Safety Meeting		
12/14/2011	12:35:17	0	0.0	8.35	0.0	0	Reset Total, Vol = 0.00 bbl		
12/14/2011	12:35:19	0	0.0	8.35	0.0	0	Start Pumping Wash		
12/14/2011	12:35:24	0	0.0	8.35	0.0	0	Pressure Test Lines		
12/14/2011	12:35:26	1	0.0	8.35	0.0	0	Low Pressure Test 500 psi Successful		
12/14/2011	12:36:02	0	0.0	8.35	0.0	0			
12/14/2011	12:36:52	1	0.0	8.35	0.0	0			
12/14/2011	12:37:42	1	0.0	8.35	0.0	0			
12/14/2011	12:38:32	1	0.0	8.35	0.0	0			
12/14/2011	12:39:22	1	0.0	8.35	0.0	0			
12/14/2011	12:40:12	-0	0.0	8.35	0.0	0			
12/14/2011	12:41:52	-1	0.0	8.35	0.0	0			
12/14/2011	12:42:42	-1	0.0	8.35	0.0	0			
12/14/2011	12:43:32	-1	0.0	8.35	0.0	0			
12/14/2011	12:44:22	-1	0.0	8.35	0.0	0			
12/14/2011	12:45:12	-1	0.0	8.35	0.0	0			
12/14/2011	12:46:02	-1	0.0	8.35	0.0	0			
12/14/2011	12:46:52	-2	0.0	8.35	0.0	0			
12/14/2011	12:47:42	-2	0.0	8.35	0.0	0			

Well			Field		Job Start	Customer		Job Number
HMU Federal 16-16C2 J1			Mamm Creek		Dec/14/2011	Encana		682775
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message	
12/14/2011	12:49:22	-2	0.0	8.35	0.0	0		
12/14/2011	12:50:12	-1	0.0	8.35	0.0	0		
12/14/2011	12:51:02	-4	0.0	8.35	0.0	0		
12/14/2011	12:51:52	-4	0.0	8.35	0.0	0		
12/14/2011	12:52:42	61	1.7	8.37	1.1	0		
12/14/2011	12:53:32	35	0.0	8.34	2.3	0		
12/14/2011	12:54:22	803	0.0	8.34	2.4	0		
12/14/2011	12:55:12	2642	0.0	8.34	2.4	0		
12/14/2011	12:56:02	2975	0.0	8.34	2.4	0		
12/14/2011	12:56:52	19	0.0	8.34	2.4	0		
12/14/2011	12:57:42	190	3.7	8.34	3.5	0		
12/14/2011	12:58:32	191	4.7	8.35	7.4	0		
12/14/2011	12:59:22	192	4.7	8.33	11.4	0		
12/14/2011	12:59:35	190	4.7	8.33	12.4	0	20 bbls of Water	
12/14/2011	13:00:02	190	4.7	8.33	14.5	0	Good Returns	
12/14/2011	13:00:12	185	4.7	8.34	15.3	0		
12/14/2011	13:01:02	190	4.7	8.31	19.3	0		
12/14/2011	13:01:42	208	4.7	11.67	22.4	20	End Wash	
12/14/2011	13:01:43	209	4.7	11.90	22.5	20	Reset Total, Vol = 22.58 bbl	
12/14/2011	13:01:46	222	4.6	12.20	22.8	20	Start Cement Slurry	
12/14/2011	13:01:52	251	4.6	12.47	23.2	21		
12/14/2011	13:02:42	443	6.6	12.56	27.3	23		
12/14/2011	13:03:32	417	6.6	12.54	32.8	23		
12/14/2011	13:03:54	418	6.6	12.53	35.2	23	Start Mixing Lead Slurry	
12/14/2011	13:04:22	401	6.6	12.52	38.2	23		
12/14/2011	13:05:12	393	6.6	12.51	43.7	23		
12/14/2011	13:06:02	377	6.6	12.51	49.2	23		
12/14/2011	13:06:52	367	6.5	12.51	54.7	23		
12/14/2011	13:07:42	381	6.6	12.50	60.2	23		
12/14/2011	13:08:32	380	6.6	12.50	65.7	23		
12/14/2011	13:09:22	387	6.6	12.50	71.2	23		
12/14/2011	13:10:12	381	6.6	12.50	76.7	23		
12/14/2011	13:11:02	381	6.6	12.50	82.2	23		
12/14/2011	13:11:18	368	6.6	12.50	83.9	23	335 sk (126 bbl) of 12.5 Lead	
12/14/2011	13:11:19	384	6.6	12.50	84.0	23	Yield=2.11	
12/14/2011	13:11:50	385	6.6	12.50	87.4	23	Sample Taken at 12.50 ppg	
12/14/2011	13:11:51	371	6.6	12.50	87.6	23	Scale Reads 12.48 ppg	
12/14/2011	13:11:52	371	6.6	12.50	87.7	23		
12/14/2011	13:11:53	388	6.6	12.50	87.8	23	End Lead Slurry	
12/14/2011	13:12:42	375	6.6	12.49	93.2	23		
12/14/2011	13:13:32	378	6.6	12.49	98.7	23		
12/14/2011	13:14:22	379	6.6	12.49	104.2	23		
12/14/2011	13:15:12	377	6.6	12.49	109.7	23		
12/14/2011	13:16:02	383	6.6	12.50	115.2	23		
12/14/2011	13:16:52	373	6.6	12.50	120.7	24		
12/14/2011	13:17:42	372	6.6	12.50	126.2	24		
12/14/2011	13:18:32	373	6.6	12.53	131.7	24		
12/14/2011	13:19:22	384	6.6	12.56	137.2	24		
12/14/2011	13:20:12	360	6.6	12.54	142.7	24		
12/14/2011	13:21:02	372	6.6	12.48	148.1	24		
12/14/2011	13:21:52	369	6.6	12.43	153.7	14		
12/14/2011	13:22:42	5	0.0	12.45	156.1	0		
12/14/2011	13:23:07	1	0.0	12.46	156.1	0	Reset Total, Vol = 133.49 bbl	
12/14/2011	13:23:32	-4	0.0	12.47	156.1	0		

Well HMU Federal 16-16C2 J1			Field Mamm Creek		Job Start Dec/14/2011		Customer Encana	Job Number 682775
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message	
12/14/2011	13:25:12	195	3.4	15.49	157.0	24		
12/14/2011	13:26:02	304	4.6	15.38	160.8	26		
12/14/2011	13:26:52	314	4.6	15.67	163.7	29		
12/14/2011	13:27:35	309	4.6	15.67	167.0	30	Start Mixing Tail Slurry	
12/14/2011	13:27:38	307	4.6	15.69	167.2	30	149 sk (31 bbl) of 15.8 Tail	
12/14/2011	13:27:42	302	4.6	15.72	167.6	30		
12/14/2011	13:28:32	305	4.6	15.89	171.4	31		
12/14/2011	13:29:22	324	4.6	15.87	175.3	33		
12/14/2011	13:30:01	320	4.6	15.76	178.3	34	Scale Reads 15.7	
12/14/2011	13:30:02	314	4.6	15.76	178.3	34	End Tail Slurry	
12/14/2011	13:30:12	302	4.6	15.66	179.1	34		
12/14/2011	13:31:02	289	4.6	15.55	183.0	31		
12/14/2011	13:31:52	289	4.6	15.69	186.8	34		
12/14/2011	13:32:42	285	4.6	15.21	190.7	61		
12/14/2011	13:32:49	19	3.8	14.54	191.2	66	Reset Total, Vol = 35.20 bbl	
12/14/2011	13:32:53	-1	0.7	14.24	191.4	0	Drop Top Plug	
12/14/2011	13:32:54	-1	0.2	14.22	191.4	0	Start Displacement	
12/14/2011	13:32:55	-1	0.1	14.21	191.4	0	Plug Away	
12/14/2011	13:33:32	-6	0.0	14.21	191.4	0		
12/14/2011	13:34:22	-6	0.9	11.79	191.5	0		
12/14/2011	13:35:12	-5	0.0	9.80	191.7	0		
12/14/2011	13:36:02	20	0.9	9.10	191.7	42		
12/14/2011	13:36:52	185	4.7	9.99	194.0	67		
12/14/2011	13:37:42	270	6.7	9.18	198.4	39		
12/14/2011	13:38:32	250	6.7	8.67	204.0	20		
12/14/2011	13:39:22	245	6.7	8.51	209.6	13		
12/14/2011	13:40:12	235	6.7	8.39	215.2	8		
12/14/2011	13:41:02	236	6.7	8.34	220.8	6		
12/14/2011	13:41:52	243	6.7	8.31	226.4	6		
12/14/2011	13:42:42	265	6.7	8.30	232.1	5		
12/14/2011	13:43:22	290	6.7	8.29	236.5	5	Good Returns	
12/14/2011	13:43:32	297	6.7	8.29	237.7	4		
12/14/2011	13:44:22	298	6.7	8.29	243.3	4		
12/14/2011	13:45:12	148	3.5	8.28	247.0	3		
12/14/2011	13:45:19	146	3.5	8.29	247.4	3	70 bbls of Cement to Surface	
12/14/2011	13:46:02	152	3.5	8.31	249.9	3		
12/14/2011	13:46:52	163	3.5	8.30	252.8	3		
12/14/2011	13:47:42	170	3.5	8.30	255.7	3		
12/14/2011	13:48:32	178	3.5	8.30	258.6	3		
12/14/2011	13:49:22	184	3.5	8.32	261.5	3		
12/14/2011	13:50:12	187	3.4	8.32	264.3	6		
12/14/2011	13:51:02	203	3.4	8.31	267.2	0		
12/14/2011	13:51:52	206	3.4	8.32	270.1	0		
12/14/2011	13:52:42	216	3.4	8.32	272.9	0		
12/14/2011	13:53:32	203	3.4	8.32	275.8	0		
12/14/2011	13:54:22	237	3.4	8.32	278.7	0		
12/14/2011	13:55:12	246	3.4	8.32	281.5	0		
12/14/2011	13:56:02	272	3.4	8.32	284.4	0		
12/14/2011	13:56:52	342	4.7	8.32	287.6	0		
12/14/2011	13:57:42	350	4.7	8.32	291.5	0		
12/14/2011	13:58:32	371	4.7	8.32	295.4	0		
12/14/2011	13:59:22	390	4.7	8.32	299.3	0		
12/14/2011	14:00:12	411	4.7	8.32	303.2	0		
12/14/2011	14:01:02	444	4.7	8.32	307.1	0		

Well			Field		Job Start	Customer		Job Number
HMU Federal 16-16C2 J1			Mamm Creek		Dec/14/2011	Encana		682775
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message	
12/14/2011	14:02:42	476	2.1	8.32	312.5	0		
12/14/2011	14:03:32	474	2.1	8.31	314.2	0		
12/14/2011	14:04:22	440	2.1	8.31	316.0	0		
12/14/2011	14:05:12	389	2.1	8.32	317.8	0		
12/14/2011	14:06:02	349	2.1	8.31	319.6	0		
12/14/2011	14:06:52	359	0.0	8.32	320.1	0		
12/14/2011	14:07:42	891	1.7	8.32	320.3	0		
12/14/2011	14:08:16	1019	0.0	8.32	320.5	0	Reset Total, Vol = 129.18 bbl	
12/14/2011	14:08:27	1015	0.0	8.32	320.5	0	Bump Top Plug	
12/14/2011	14:08:28	1018	0.0	8.32	320.5	0	End Displacement	
12/14/2011	14:08:32	1014	0.0	8.32	320.5	0		
12/14/2011	14:08:41	1015	0.0	8.32	320.5	0	Check Floats	
12/14/2011	14:08:45	1013	0.0	8.32	320.5	0	Floats Hold	
12/14/2011	14:08:47	1014	0.0	8.32	320.5	0	Remark	
12/14/2011	14:09:22	1009	0.0	8.32	320.5	0		
12/14/2011	14:10:12	315	0.0	8.32	320.5	0		
12/14/2011	14:11:02	-23	0.0	8.32	320.5	0		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 4.8	N2	Mud	Maximum Rate 6.8		Total Slurry 157.0	Mud 0.0	Spacer 20.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 3207	Final -25	Average 347	Bump Plug to	Breakdown	Type	Volume bbl		Density lb/gal			
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl		Displacement 121.0 bbl	Mix Water Temp degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl				
					Washed Thru Perfs <input type="checkbox"/>		To ft				
Customer or Authorized Representative David Wall			Schlumberger Supervisor Jeff Eulberg			Circulation Lost <input type="checkbox"/>	Job Completed <input type="checkbox"/>				
						-	-				