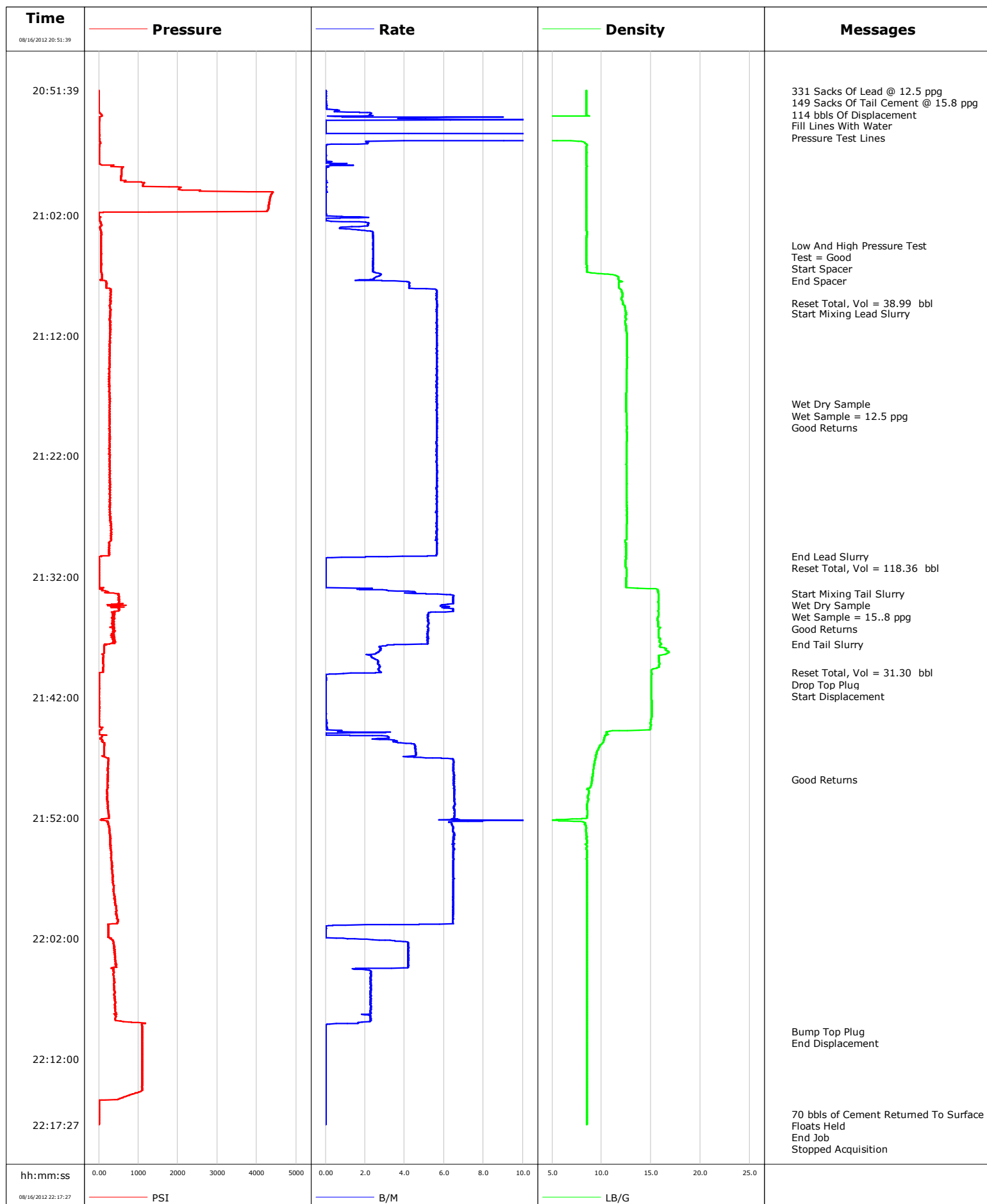


<b>Well</b>	Fee 31-5CC	<b>Client</b>	Encana
<b>Field</b>	Mann Creek	<b>SIR No.</b>	CAET-00003
<b>Engineer</b>	Rogers / Morrow	<b>Job Type</b>	9 5/8 Surface
<b>Country</b>	United States	<b>Job Date</b>	08-16-2012

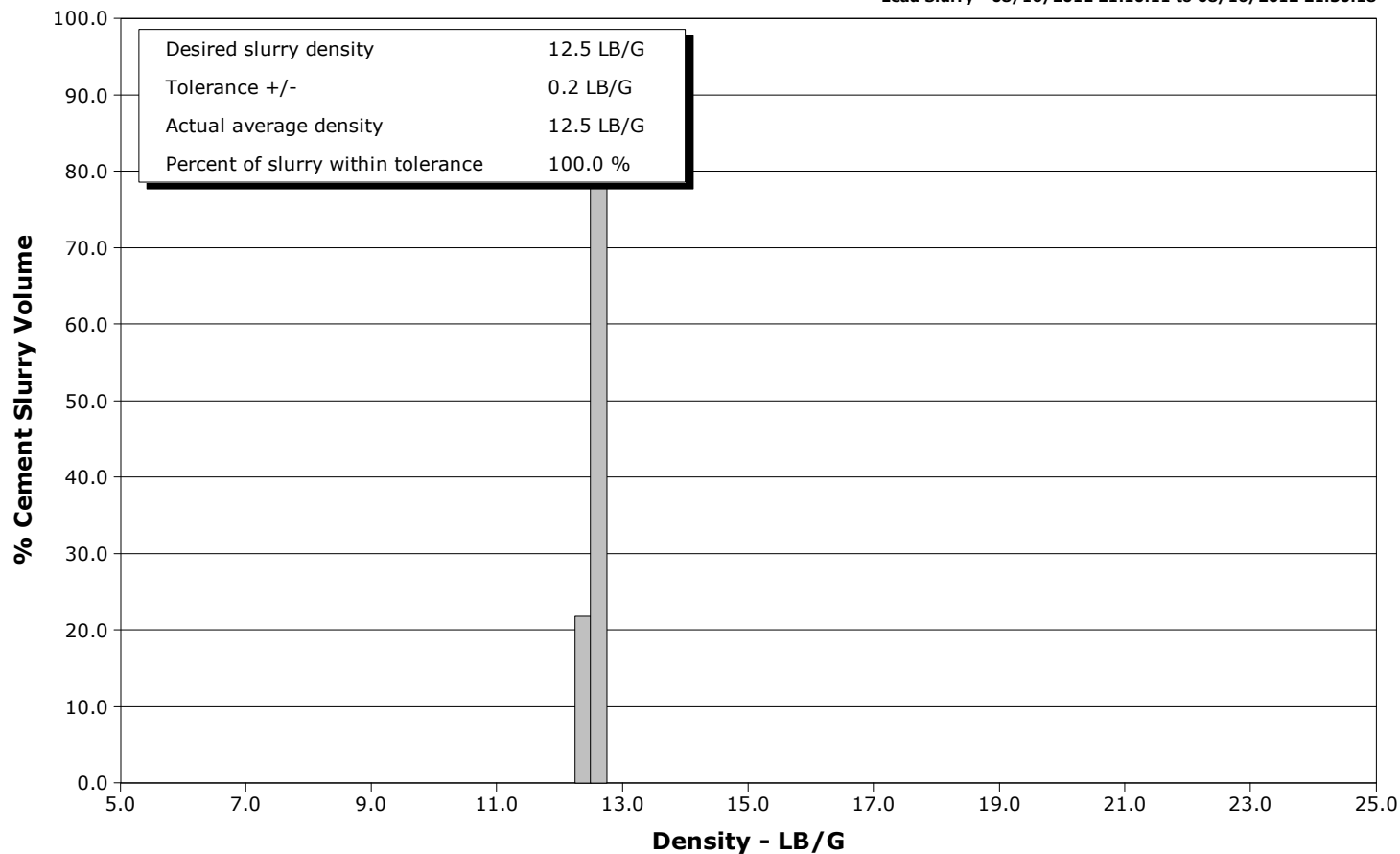


# Schlumberger Cementing Qa/Qc Density Report

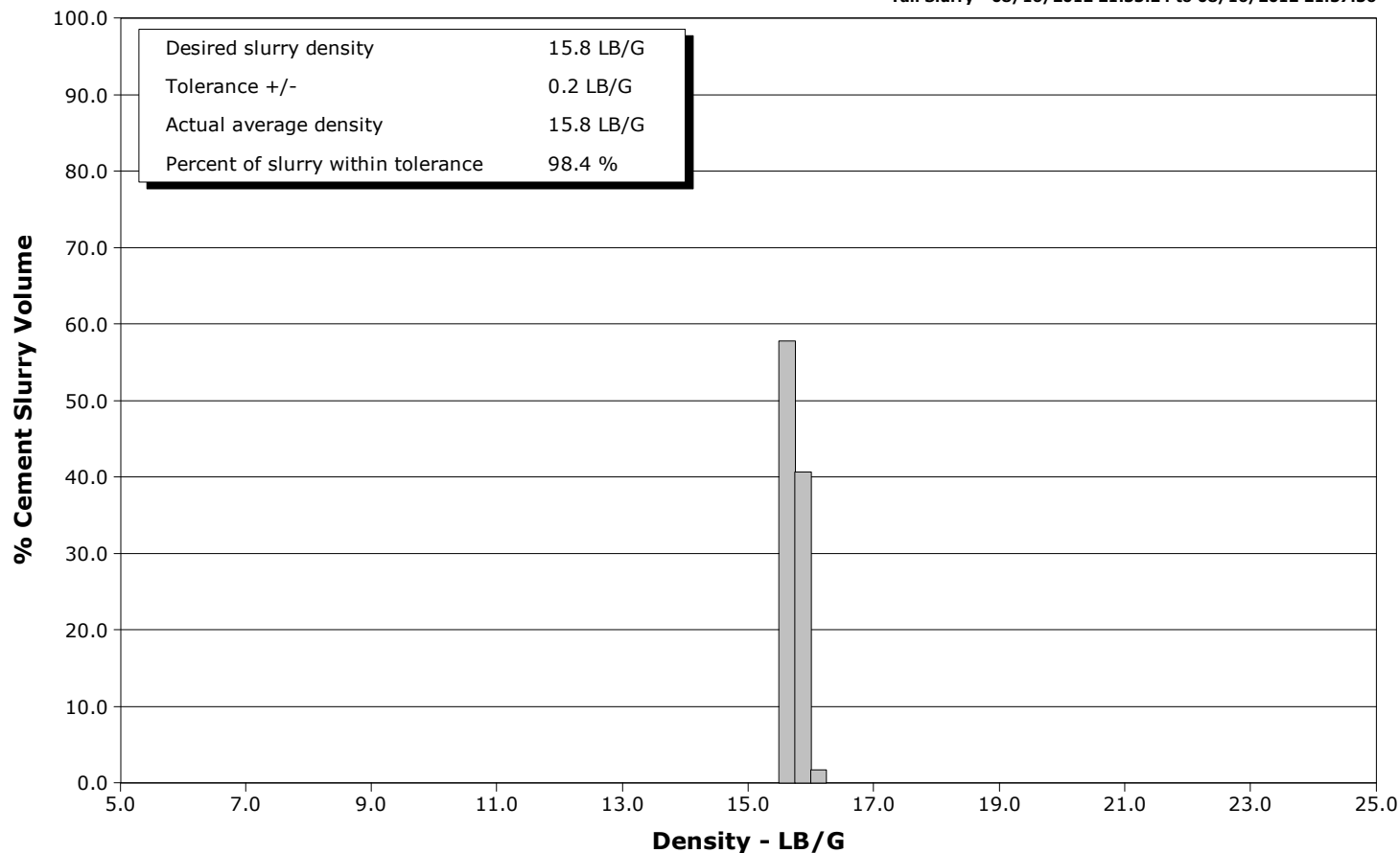
**Well** Fee 31-5CC  
**Field** Mann Creek  
**Engineer** Rogers / Morrow  
**Country** United States

**Client** Encana  
**SIR No.** CAET-00003  
**Job Type** 9 5/8 Surface  
**Job Date** 08-16-2012

**Lead Slurry - 08/16/2012 21:10:11 to 08/16/2012 21:30:18**



**Tail Slurry - 08/16/2012 21:33:24 to 08/16/2012 21:37:36**





# Cementing Service Report

				Customer Encana			Job Number CAET-00003								
Well Fee 31-5CC			Location (legal) K31			Schlumberger Location Grand Junction			Job Start Aug/16/2012						
Field Mann Creek		Formation Name/Type			Deviation		Bit Size		Well MD		Well TVD				
County Garfield		State/Province Colorado			BHP		BHST 99 degF		BHCT 86 degF		Pore Press. Gradient				
Well Master 0631395616		API/UWI 05045216170000													
Rig Name Patterson 303		Drilled For Gas		Service Via Land		Casing/Liner									
Offshore Zone		Well Class New		Well Type Development		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
						1516.0		9.630		36.0		J55		8RD	
Drilling Fluid Type		Max. Density		Plastic Viscosity		0.0		0.000		0.0					
						Tubing/Drill Pipe									
Service Line Cementing		Job Type 9 5/8 Surface				Depth,		Size,		Weight,		Grade		Thread	
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection		Perforations/Open Hole									
						Top,		Bottom,				No. of Shots		Total Interval	
Service Instructions														Diameter	
						Treat Down		Displacement		Packer Type		Packer Depth			
Tubing Vol.		Casing Vol.		Annular Vol.		Openhole Vol.									
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>		Casing Tools				Squeeze Job							
Lift Pressure				Shoe Type Float				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1516.0 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 Aug/16/2012		Arrived on Location Aug/16/2012		Leave Location Aug/16/2012		Collar Type Float				Tail Pipe Depth					
						Collar Depth 1471.0 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
08/16/2012	20:51:38					Start Job									
08/16/2012	20:51:39	-9	0.0	8.48	2.4										
08/16/2012	20:51:43					331 Sacks Of Lead @ 12.5 ppg									
08/16/2012	20:51:43	-10	0.0	8.47	2.4										
08/16/2012	20:51:44					149 Sacks Of Tail Cement @ 15.8 ppg									
08/16/2012	20:51:44					114 bbls Of Displacement									
08/16/2012	20:51:44	-10	0.0	8.47	2.4										
08/16/2012	20:51:45					Fill Lines With Water									
08/16/2012	20:51:45	-10	0.0	8.47	2.4										
08/16/2012	20:51:55					Pressure Test Lines									
08/16/2012	20:51:55	-10	0.0	8.47	2.4										
08/16/2012	20:56:38	9	0.0	8.48	17.6										
08/16/2012	21:01:38	4264	0.0	8.48	0.3										
08/16/2012	21:04:30					Low And High Pressure Test									
08/16/2012	21:04:30	60	2.4	8.48	4.6										
08/16/2012	21:04:31					Test = Good									
08/16/2012	21:04:31	60	2.4	8.48	4.6										
08/16/2012	21:05:13					Start Spacer									
08/16/2012	21:05:13	62	2.4	8.48	6.3										
08/16/2012	21:06:38	60	2.4	8.48	9.7										
08/16/2012	21:07:28					End Spacer									

Well			Field		Job Start		Customer		Job Number	
Fee 31-5CC			Mann Creek		Aug/16/2012		Encana		CAET-00003	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
08/16/2012	21:09:19					Reset Total, Vol = 38.99 bbl				
08/16/2012	21:09:19	294	5.6	12.16	21.2					
08/16/2012	21:10:11					Start Mixing Lead Slurry				
08/16/2012	21:10:11	283	5.6	12.46	26.1					
08/16/2012	21:11:38	293	5.6	12.49	34.3					
08/16/2012	21:16:38	257	5.6	12.50	62.4					
08/16/2012	21:17:40					Wet Dry Sample				
08/16/2012	21:17:40	285	5.6	12.48	68.2					
08/16/2012	21:17:41					Wet Sample = 12.5 ppg				
08/16/2012	21:17:41					Good Returns				
08/16/2012	21:17:41	273	5.6	12.48	68.3					
08/16/2012	21:21:38	266	5.6	12.52	90.6					
08/16/2012	21:26:38	289	5.6	12.55	118.7					
08/16/2012	21:30:18					End Lead Slurry				
08/16/2012	21:30:18	67	5.2	12.49	139.3					
08/16/2012	21:30:29					Reset Total, Vol = 118.36 bbl				
08/16/2012	21:30:29	-1	0.0	12.47	139.6					
08/16/2012	21:31:38	3	0.0	12.54	139.6					
08/16/2012	21:33:24					Start Mixing Tail Slurry				
08/16/2012	21:33:24	421	4.6	15.75	141.1					
08/16/2012	21:34:08					Wet Dry Sample				
08/16/2012	21:34:08					Wet Sample = 15..8 ppg				
08/16/2012	21:34:08	511	6.5	15.74	145.8					
08/16/2012	21:34:09					Good Returns				
08/16/2012	21:34:09	511	6.5	15.73	145.9					
08/16/2012	21:36:38	361	5.2	15.75	159.6					
08/16/2012	21:37:36					End Tail Slurry				
08/16/2012	21:37:36	156	4.9	16.01	164.6					
08/16/2012	21:39:57					Reset Total, Vol = 31.30 bbl				
08/16/2012	21:39:57	46	2.8	15.02	170.9					
08/16/2012	21:40:10					Drop Top Plug				
08/16/2012	21:40:10	3	0.0	15.04	171.1					
08/16/2012	21:40:13					Start Displacement				
08/16/2012	21:40:13	3	0.0	15.02	171.1					
08/16/2012	21:41:38	6	0.0	15.03	171.1					
08/16/2012	21:46:38	127	4.6	9.48	177.3					
08/16/2012	21:48:47					Good Returns				
08/16/2012	21:48:47	221	6.5	9.05	190.4					
08/16/2012	21:51:38	247	6.5	8.53	209.0					
08/16/2012	21:56:38	339	6.5	8.48	241.5					
08/16/2012	22:01:38	239	0.0	8.48	268.8					
08/16/2012	22:06:38	389	2.3	8.48	283.6					
08/16/2012	22:09:43					Bump Top Plug				
08/16/2012	22:09:43	1096	0.0	8.48	289.1					
08/16/2012	22:09:47					End Displacement				
08/16/2012	22:09:47	1093	0.0	8.48	289.1					
08/16/2012	22:11:38	1095	0.0	8.48	289.1					
08/16/2012	22:16:32					70 bbls of Cement Returned To Surface				
08/16/2012	22:16:32	5	0.0	8.49	289.2					
08/16/2012	22:16:35					Floats Held				
08/16/2012	22:16:35	5	0.0	8.49	289.2					
08/16/2012	22:16:38	6	0.0	8.48	289.2					
08/16/2012	22:17:20					End Job				
08/16/2012	22:17:20	6	0.0	8.48	289.2					

<b>Well</b> Fee 31-5CC	<b>Field</b> Mann Creek	<b>Job Start</b> Aug/16/2012	<b>Customer</b> Encana	<b>Job Number</b> CAET-00003
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 3.8	N2	Mud 0.0	Maximum Rate 25.0	Total Slurry 306.9	Mud 0.0	Spacer 22.2	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4414	Final 5	Average 387	Bump Plug to	Breakdown	Type	Volume	Density	
Avg. N2 Percent		Designed Slurry Volume	Displacement 118.0 bbl	Mix Water Temp	Cement Circulated to Surface? <input type="checkbox"/>	Volume		
					Washed Thru Perfs <input type="checkbox"/>	To		
Customer or Authorized Representative Mike Olsen			Schlumberger Supervisor Rogers / Willardson			Circulation Lost <input type="checkbox"/>	Job Completed <input type="checkbox"/>	
						-	-	