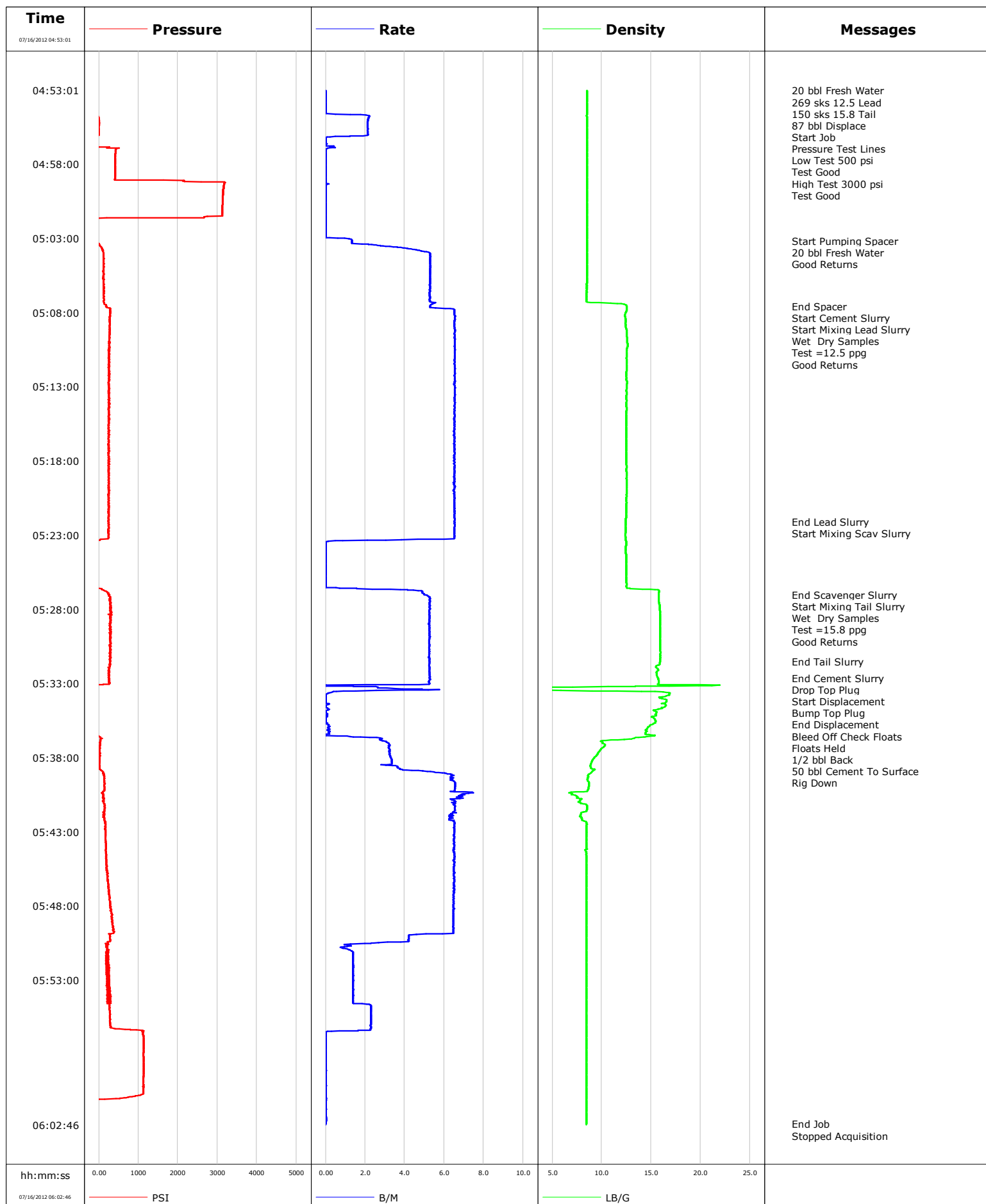


Well MCU FEE 17-9B2
Field Mamm Creek
Engineer Jordan Moreland
Country United States

Client Encana
SIR No.
Job Type 9 5/8 Surface
Job Date 07-16-2012

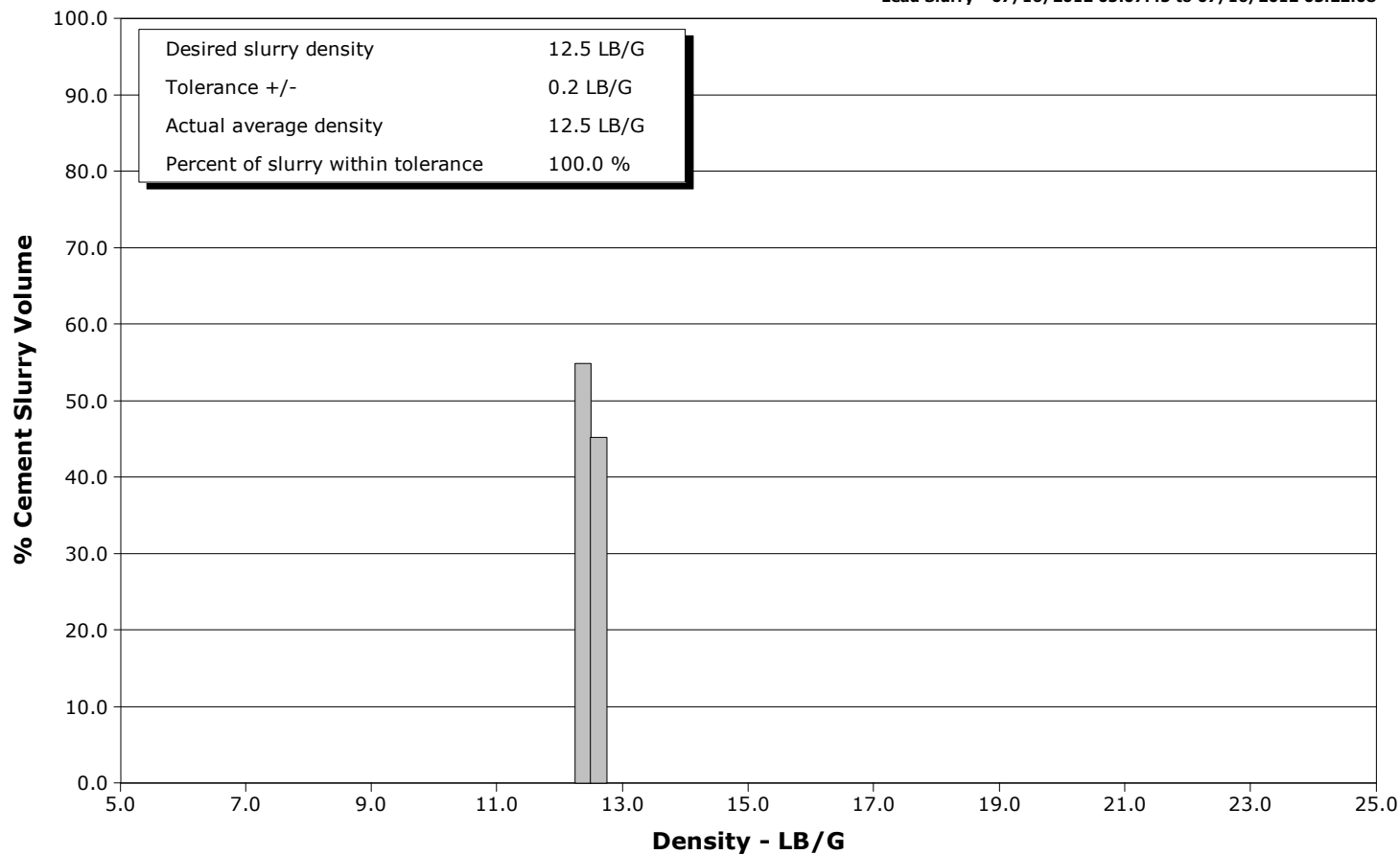


Schlumberger Cementing Qa/Qc Density Report

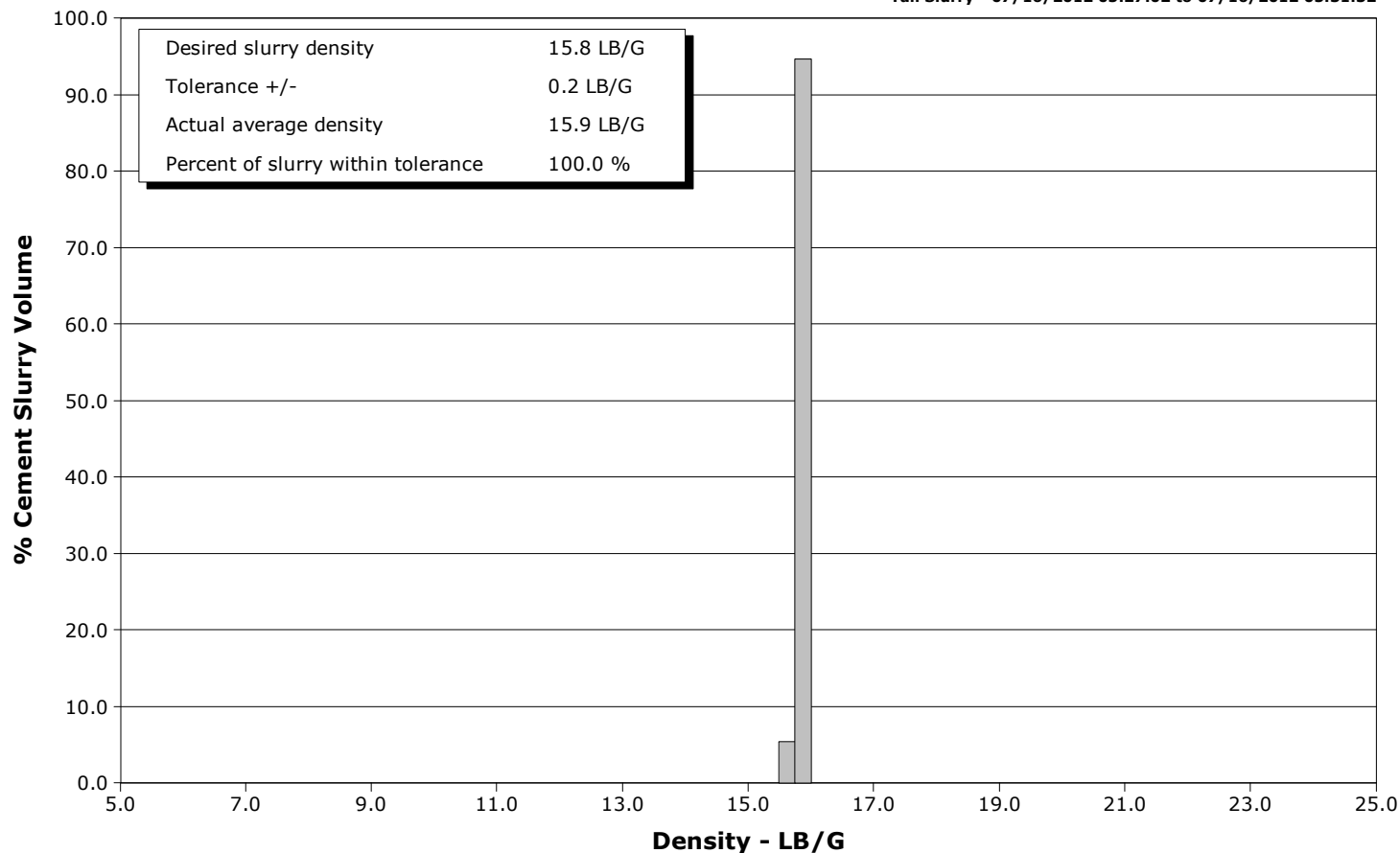
Well MCU FEE 17-9B2
Field Mamm Creek
Engineer Jordan Moreland
Country United States

Client Encana
SIR No.
Job Type 9 5/8 Surface
Job Date 07-16-2012

Lead Slurry - 07/16/2012 05:07:45 to 07/16/2012 05:22:08



Tail Slurry - 07/16/2012 05:27:02 to 07/16/2012 05:31:32





Cementing Service Report

				Customer Encana		Job Number C459-00067		
Well MCU FEE 17-9B2			Location (legal)		Schlumberger Location GCO		Job Start Jul/16/2012	
Field Mamm Creek		Formation Name/Type		Deviation	Bit Size 12.3 in	Well MD		Well TVD
County Garfield		State/Province Colorado		BHP	BHST 95 degF	BHCT 82 degF		Pore Press. Gradient
Well Master 0631279563		API/UWI						
Rig Name Patterson 308	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	k55	8RD	
			1175.0	9.630	36.0	J55	8RD	
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe				
				Depth,	Size,	Weight,	Grade	Thread
Service Line Cementing	Job Type 9 5/8 Surface							
Max. Allowed Tub. Press 3000 psi		Max. Allowed Ann. Press	WH Connection Single Cement head	Perforations/Open Hole				
				Top,	Bottom,		No. of Shots	Total Interval
								Diameter
				Treat Down Casing	Displacement 87.0 bbl	Packer Type	Packer Depth	
				Tubing Vol.	Casing Vol. 88.0 bbl	Annular Vol. 69.0 bbl	Openhole Vol. 163.0 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 581 psi				Shoe Type Guide		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1175.0 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 Jul/16/2012		Arrived on Location Jul/16/2012	Leave Location Jul/16/2012	Collar Type Float		Tail Pipe Depth		
				Collar Depth 1129.0 ft		Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
07/16/2012	04:20:47					Started Acquisition		
07/16/2012	04:53:01	-54	0.0	8.48	0.0			
07/16/2012	04:53:02					20 bbl Fresh Water		
07/16/2012	04:53:02					269 sks 12.5 Lead		
07/16/2012	04:53:02					150 sks 15.8 Tail		
07/16/2012	04:53:02					87 bbl Displace		
07/16/2012	04:53:02	-54	0.0	8.48	0.0			
07/16/2012	04:53:05					Start Job		
07/16/2012	04:53:05	-54	0.0	8.48	0.0			
07/16/2012	04:53:06					Pressure Test Lines		
07/16/2012	04:53:06	-53	0.0	8.48	0.0			
07/16/2012	04:53:08					Low Test 500 psi		
07/16/2012	04:53:08					Test Good		
07/16/2012	04:53:08					High Test 3000 psi		
07/16/2012	04:53:08	-53	0.0	8.48	0.0			
07/16/2012	04:53:09					Test Good		
07/16/2012	04:53:09	-53	0.0	8.48	0.0			
07/16/2012	04:54:47	-16	2.2	8.48	0.3			
07/16/2012	04:56:47	-22	0.1	8.48	3.2			
07/16/2012	04:58:47	405	0.0	8.48	3.3			
07/16/2012	05:00:47	3125	0.0	8.48	3.3			

Well			Field		Job Start		Customer		Job Number	
MCU FEE 17-9B2			Mamm Creek		Jul/16/2012		Encana		C459-00067	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
07/16/2012	05:03:10					Start Pumping Spacer				
07/16/2012	05:03:10	-17	1.3	8.48	3.5					
07/16/2012	05:03:12					20 bbl Fresh Water				
07/16/2012	05:03:12					Good Returns				
07/16/2012	05:03:12	-15	1.3	8.48	3.6					
07/16/2012	05:04:47	118	5.3	8.48	10.4					
07/16/2012	05:06:47	128	5.3	8.48	20.9					
07/16/2012	05:07:35					End Spacer				
07/16/2012	05:07:35	198	5.3	12.52	25.2					
07/16/2012	05:07:36					Start Cement Slurry				
07/16/2012	05:07:36	181	5.3	12.52	25.3					
07/16/2012	05:07:45					Start Mixing Lead Slurry				
07/16/2012	05:07:45	298	6.3	12.54	26.1					
07/16/2012	05:07:46					Wet Dry Samples				
07/16/2012	05:07:46					Test =12.5 ppg				
07/16/2012	05:07:46					Good Returns				
07/16/2012	05:07:46	290	6.5	12.54	26.2					
07/16/2012	05:08:47	280	6.5	12.41	32.8					
07/16/2012	05:10:47	259	6.5	12.53	45.9					
07/16/2012	05:12:47	245	6.5	12.56	58.9					
07/16/2012	05:14:47	252	6.5	12.49	72.0					
07/16/2012	05:16:47	248	6.5	12.48	85.0					
07/16/2012	05:18:47	247	6.5	12.50	98.0					
07/16/2012	05:20:47	253	6.5	12.50	111.1					
07/16/2012	05:22:08					End Lead Slurry				
07/16/2012	05:22:08	239	6.5	12.42	119.9					
07/16/2012	05:22:09					Start Mixing Scav Slurry				
07/16/2012	05:22:09	253	6.5	12.42	120.0					
07/16/2012	05:22:47	249	6.5	12.41	124.1					
07/16/2012	05:24:47	-50	0.0	12.47	127.7					
07/16/2012	05:26:47	165	4.9	15.82	128.4					
07/16/2012	05:27:01					End Scavenger Slurry				
07/16/2012	05:27:01	261	5.0	15.74	129.5					
07/16/2012	05:27:02					Start Mixing Tail Slurry				
07/16/2012	05:27:02	261	5.0	15.74	129.6					
07/16/2012	05:27:04					Wet Dry Samples				
07/16/2012	05:27:04	270	5.1	15.75	129.8					
07/16/2012	05:27:05					Test =15.8 ppg				
07/16/2012	05:27:05					Good Returns				
07/16/2012	05:27:05	265	5.1	15.75	129.8					
07/16/2012	05:28:47	300	5.3	15.91	138.8					
07/16/2012	05:30:47	310	5.2	15.91	149.3					
07/16/2012	05:31:32					End Tail Slurry				
07/16/2012	05:31:32	272	5.3	15.89	153.2					
07/16/2012	05:32:38					End Cement Slurry				
07/16/2012	05:32:38	268	5.2	15.69	159.0					
07/16/2012	05:32:43					Drop Top Plug				
07/16/2012	05:32:43	264	5.3	15.72	159.4					
07/16/2012	05:32:44					Start Displacement				
07/16/2012	05:32:44					Bump Top Plug				
07/16/2012	05:32:44					End Displacement				
07/16/2012	05:32:44	255	5.3	15.73	159.5					
07/16/2012	05:32:45					Bleed Off Check Floats				
07/16/2012	05:32:45					Floats Held				

Well			Field		Job Start	Customer	Job Number
MCU FEE 17-9B2			Mamm Creek		Jul/16/2012	Encana	C459-00067
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
07/16/2012	05:32:45					50 bbl Cement To Surface	
07/16/2012	05:32:45					Rig Down	
07/16/2012	05:32:45	272	5.3	15.73	159.6		
07/16/2012	05:32:47	256	5.3	15.74	159.8		
07/16/2012	05:34:47	-47	0.2	15.73	162.6		
07/16/2012	05:36:47	41	2.7	12.29	163.2		
07/16/2012	05:38:47	17	3.8	9.07	169.8		
07/16/2012	05:40:47	118	6.8	7.75	182.4		
07/16/2012	05:42:47	157	6.5	8.48	195.4		
07/16/2012	05:44:47	186	6.5	8.45	208.4		
07/16/2012	05:46:47	250	6.5	8.47	221.4		
07/16/2012	05:48:47	329	6.5	8.47	234.3		
07/16/2012	05:50:47	173	1.0	8.47	244.4		
07/16/2012	05:52:47	213	1.4	8.47	247.1		
07/16/2012	05:54:47	265	2.3	8.47	250.1		
07/16/2012	05:56:47	1128	0.0	8.47	253.9		
07/16/2012	05:58:47	1130	0.0	8.47	253.9		
07/16/2012	06:00:47	1047	0.0	8.48	253.9		
07/16/2012	06:02:43					End Job	
07/16/2012	06:02:43	-26	0.0	8.48	254.0		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 3.9	N2	Mud 0.0	Maximum Rate 7.5	Total Slurry 254.0	Mud 0.0	Spacer 25.1	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3187	Final -27	Average 430	Bump Plug to 1000	Breakdown	Type	Volume	Density	
Avg. N2 Percent		Designed Slurry Volume	Displacement 94.6 bbl	Mix Water Temp 70 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume		
					Washed Thru Perfs <input type="checkbox"/>	To		
Customer or Authorized Representative Erasmo Parras			Schlumberger Supervisor Jordan Moreland			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	



Service Order #:	
Date:	Jul/16/2012
Operating Time:	0.0
Client Rep:	Encana
Schlumberger Engineer:	Jordan Moreland
Schlumberger FSM:	

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

4	Evaluation					
4a	Main job objective achieved with no consequential non-productive time	10	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>		10
					Sub-total	100%

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	Schlumberger:
Client Signature:	Schlumberger Signature: