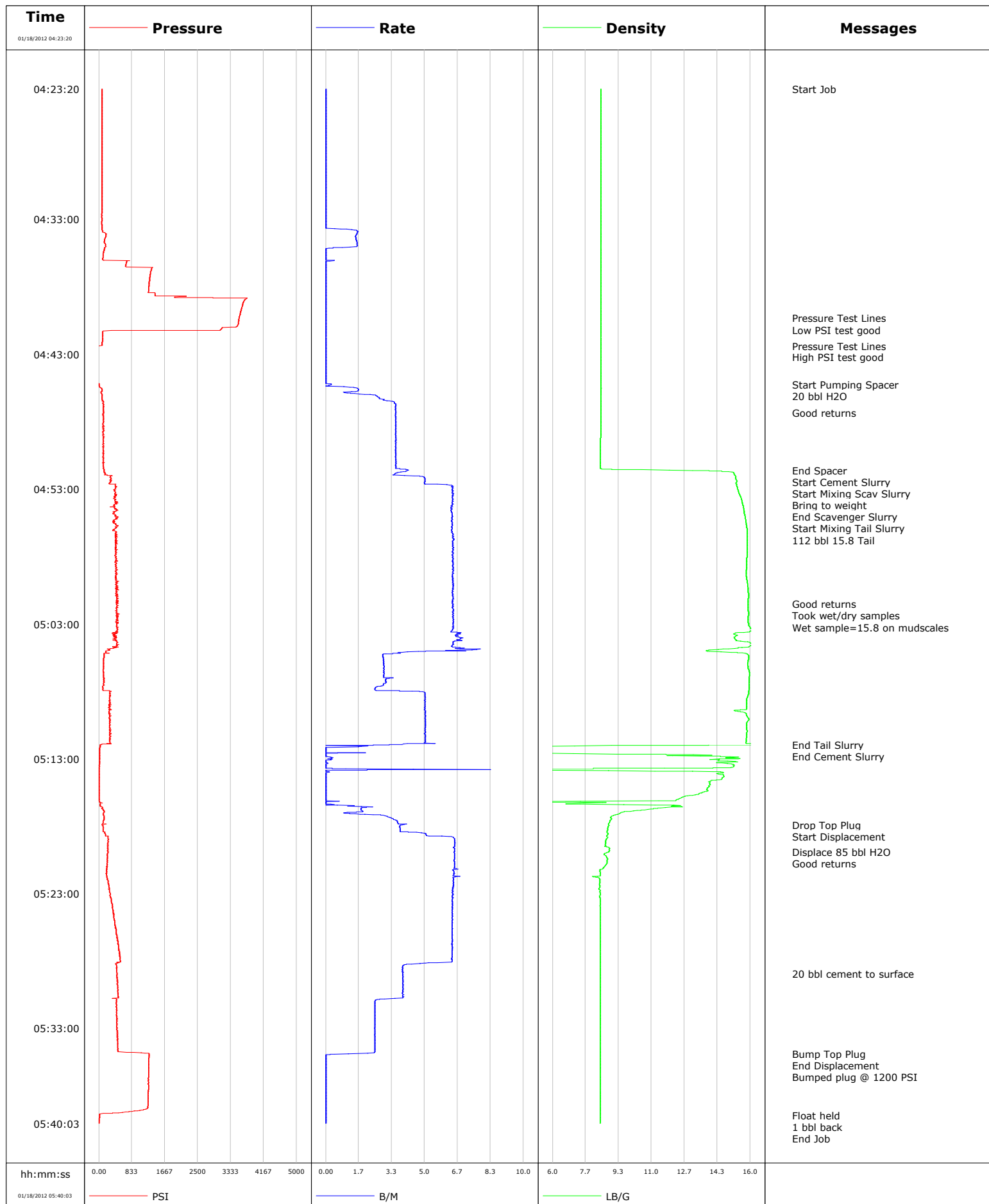


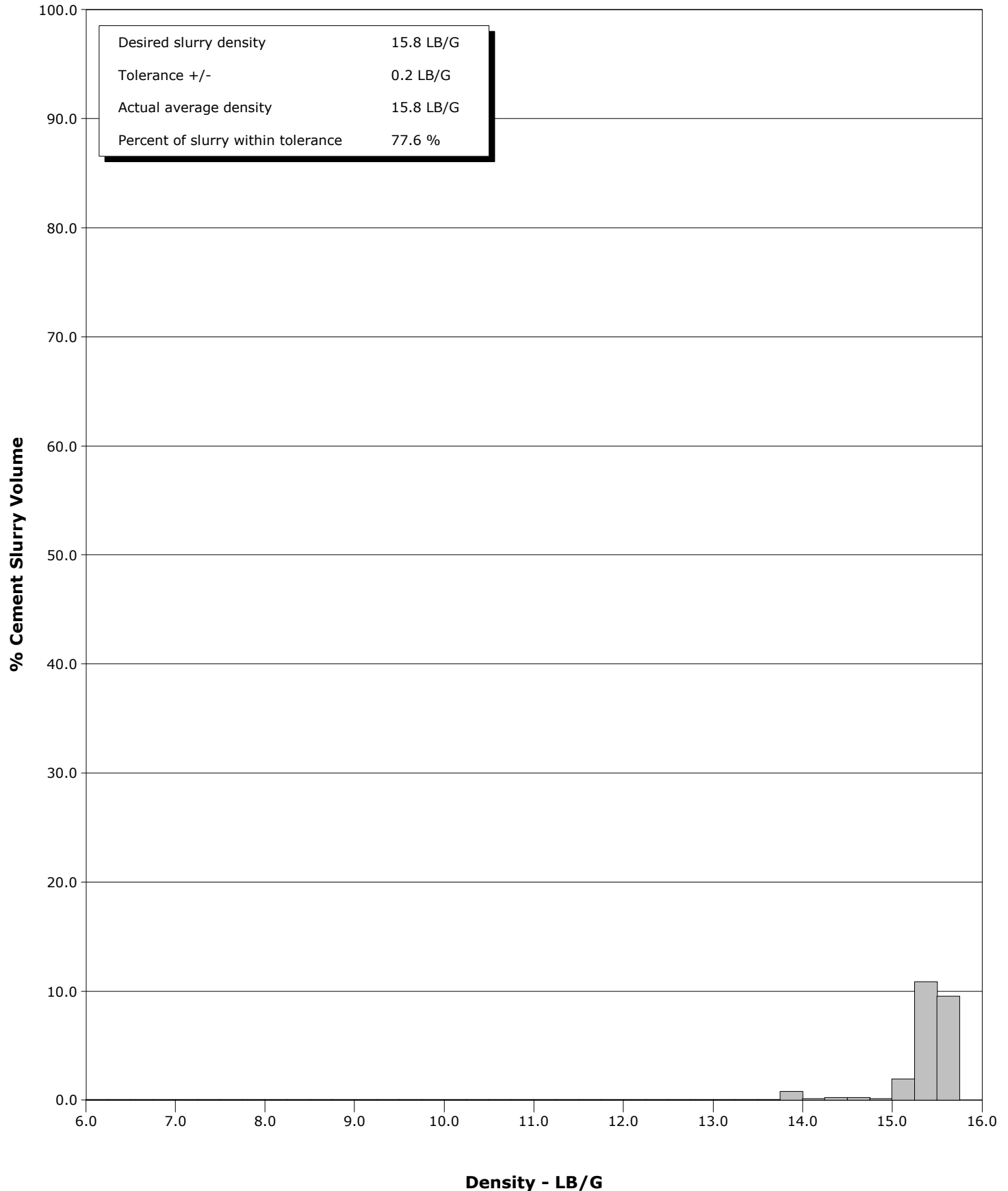
<b>Well</b>	12-6D1	<b>Client</b>	Encana
<b>Field</b>	Mamm Creek	<b>SIR No.</b>	C0BA-00068
<b>Engineer</b>	Matt Fair/T. Willardson	<b>Job Type</b>	9 5/8 Surface
<b>Country</b>	United States	<b>Job Date</b>	01-17-2012



**Well** 12-6D1  
**Field** Mamm Creek  
**Engineer** Matt Fair/T. Willardson  
**Country** United States

**Client** Encana  
**SIR No.** C0BA-00068  
**Job Type** 9 5/8 Surface  
**Job Date** 01-17-2012

**Cement Slurry - 01/18/2012 04:51:46 to 01/18/2012 05:12:06**



				Customer Encana			Job Number COBA-00068				
Well 12-6D1			Location (legal)			Schlumberger Location			Job Start Jan/17/2012		
Field Mamm Creek		Formation Name/Type Shale		Deviation deg		Bit Size 12.3 in		Well MD 1148.0 ft		Well TVD 1168.0 ft	
County Garfield		State/Province Colorado		BHP psi		BHST 100 degF		BHCT 81 degF		Pore Press. Gradient lb/gal	
Well Master 0631250970		API/UWI									
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		16.0		65.0	
						1148.0		9.6		36.0	
										N/A	
										K55	
										8RD	
Drilling Fluid Type Bentonite		Max. Density 8.90 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type 9 5/8 Surface									
Max. Allowed Tub. Press 3520 psi		Max. Allowed Ann. Press 2030 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		Diameter in	
						ft		ft			
						Treat Down Casing		Displacement 85.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 89.0 bbl		Annular Vol. 67.0 bbl	
										Openhole Vol. 159.0 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 568 psi						Shoe Type Float				Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 1146.0 ft				Tool Type	
No. Centralizers 13		Top Plugs 1		Bottom Plugs 0		Stage Tool Type				Tool Depth ft	
Cement Head Type Single						Stage Tool Depth ft				Tail Pipe Size in	
Job Scheduled For Jan/17/2012 21:00		Arrived on Location Jan/17/2012 21:00		Leave Location Jan/18/2012 07:00		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 1101.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	Message						
01/18/2012	04:23:20	8.44	79	0.0	Started Acquisition						
01/18/2012	04:23:22	8.44	79	0.0	Start Job						
01/18/2012	04:25:00	8.44	78	0.0							
01/18/2012	04:26:40	8.44	78	0.0							
01/18/2012	04:28:20	8.44	75	0.0							
01/18/2012	04:30:00	8.44	74	0.0							
01/18/2012	04:31:40	8.44	75	0.0							
01/18/2012	04:33:20	8.44	72	0.0							
01/18/2012	04:35:00	8.44	173	1.6							
01/18/2012	04:36:40	8.44	1334	0.0							
01/18/2012	04:38:20	8.44	1252	0.0							
01/18/2012	04:40:00	8.44	3574	0.0							
01/18/2012	04:40:20	8.44	3545	0.0	Pressure Test Lines						
01/18/2012	04:40:21	8.44	3544	0.0	Low PSI test good						
01/18/2012	04:41:40	8.44	93	0.0							
01/18/2012	04:42:22	8.44	81	0.0	Pressure Test Lines						
01/18/2012	04:42:23	8.44	81	0.0	High PSI test good						
01/18/2012	04:43:20	8.44	-0	0.0							
01/18/2012	04:45:00	8.44	-7	0.0							
01/18/2012	04:45:15	8.44	1	0.3	Start Pumping Spacer						
01/18/2012	04:45:18	8.44	3	0.2	20 bbl H2O						

Well			Field	Job Start	Customer	Job Number
12-6D1			Mamm Creek	Jan/17/2012	Encana	COBA-00068
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	Message	
01/18/2012	04:47:21	8.43	123	3.5	Good returns	
01/18/2012	04:48:20	8.43	113	3.5		
01/18/2012	04:50:00	8.42	120	3.5		
01/18/2012	04:51:36	11.90	128	4.2	End Spacer	
01/18/2012	04:51:40	13.94	129	4.1		
01/18/2012	04:51:46	15.07	133	3.8	Start Cement Slurry	
01/18/2012	04:51:47	15.15	133	3.7	Start Mixing Scav Slurry	
01/18/2012	04:51:48	15.16	164	3.6	Bring to weight	
01/18/2012	04:53:20	15.43	418	6.5		
01/18/2012	04:54:14	15.63	402	6.4	End Scavenger Slurry	
01/18/2012	04:54:18	15.64	399	6.4	Start Mixing Tail Slurry	
01/18/2012	04:54:20	15.65	289	6.4	112 bbl 15.8 Tail	
01/18/2012	04:55:00	15.73	401	6.4		
01/18/2012	04:56:40	15.85	442	6.5		
01/18/2012	04:58:20	15.82	472	6.4		
01/18/2012	05:00:00	15.85	437	6.4		
01/18/2012	05:01:32	15.90	454	6.4	Good returns	
01/18/2012	05:01:33	15.90	454	6.4	Took wet/dry samples	
01/18/2012	05:01:40	15.89	457	6.4		
01/18/2012	05:03:20	16.01	456	6.5		
01/18/2012	05:05:00	13.79	174	7.1		
01/18/2012	05:06:40	15.96	118	2.9		
01/18/2012	05:08:20	15.88	267	5.0		
01/18/2012	05:10:00	15.90	268	5.0		
01/18/2012	05:11:40	15.80	272	5.0		
01/18/2012	05:11:58	17.96	36	3.2	End Tail Slurry	
01/18/2012	05:12:06	5.11	28	1.8	End Cement Slurry	
01/18/2012	05:13:20	14.60	12	0.1		
01/18/2012	05:15:00	13.92	8	0.0		
01/18/2012	05:16:40	11.34	82	1.8		
01/18/2012	05:17:53	8.83	100	4.0	Drop Top Plug	
01/18/2012	05:17:54	8.83	85	4.0	Start Displacement	
01/18/2012	05:18:20	8.78	101	3.8		
01/18/2012	05:19:55	8.85	224	6.5	Displace 85 bbl H2O	
01/18/2012	05:20:00	8.73	230	6.5		
01/18/2012	05:20:23	8.75	211	6.5	Good returns	
01/18/2012	05:21:40	8.42	201	6.4		
01/18/2012	05:23:20	8.40	291	6.5		
01/18/2012	05:25:00	8.41	390	6.4		
01/18/2012	05:26:40	8.41	481	6.4		
01/18/2012	05:28:20	8.41	447	3.9		
01/18/2012	05:28:56	8.41	457	3.9	20 bbl cement to surface	
01/18/2012	05:30:00	8.41	482	3.9		
01/18/2012	05:31:40	8.41	454	2.5		
01/18/2012	05:33:20	8.41	457	2.5		
01/18/2012	05:34:53	8.41	1263	1.2	Bump Top Plug	
01/18/2012	05:34:54	8.41	1266	1.2	End Displacement	
01/18/2012	05:34:55	8.41	1266	0.5	Bumped plug @ 1200 PSI	
01/18/2012	05:35:00	8.41	1269	0.0		
01/18/2012	05:36:40	8.42	1251	0.0		
01/18/2012	05:38:20	8.42	1242	0.0		
01/18/2012	05:39:27	8.42	16	0.0	Float held	
01/18/2012	05:39:41	8.42	12	0.0	1 bbl back	
01/18/2012	05:40:00	8.42	10	0.0		

Well	Field	Job Start	Customer	Job Number
12-6D1	Mamm Creek	Jan/17/2012	Encana	C0BA-00068

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.7	N2	Mud	Maximum Rate 8.4		Total Slurry 112.0	Mud 0.0	Spacer 20.5	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3760	Final 10	Average 446	Bump Plug to 1000	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %		Designed Slurry Volume 112.0 bbl	Displacement 84.0 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 20.0 bbl	
					Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
Erasmus Parras			Matt Fair/T. Willardson			-		-



# Service Quality Evaluation

Client:	Encana
Field:	Mamm Creek
Rig:	Nabors M15
Well:	12-6D1
Service Line:	Cementing
Job Type:	9 5/8 Surface

Service Order #:	
Date:	Jan/17/2012
Operating Time (hh:mm):	00:00
Client Rep:	Erasmo Parras
Schlumberger Engineer:	Matt Fair/T. Willardson
Schlumberger FSM:	

Main Objective:

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

		Score	Yes / No		Result
1	HSE				
1a	Free of lost time injury and compliance with SLB and loc. spec. HSE practice	5	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	5
1b	Free of environmental spill or non-compliant discharge	5	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	5
1c	Wellsite left clean	4	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	4
Sub-total					100%

2	Design / Preparation				
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
2b	Equipment maintenance schedule completed / Green tagged	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
2c	All materials and equipment required for job/contingency checked & on location	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
2d	Safety / pre-job meeting conducted with all involved present	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
Sub-total					100%

3	Execution				
3a	Lost time < 30 mins	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3b	Equipment pressure tested succesfully	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3d	Plugs / darts released and tested succesfully	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3e	Density variation met expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3f	Personnel performed as per expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3g	Equipment performed as per expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3h	Job pumped as per design	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3i	Did job start on time	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
Sub-total					100%

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%

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: