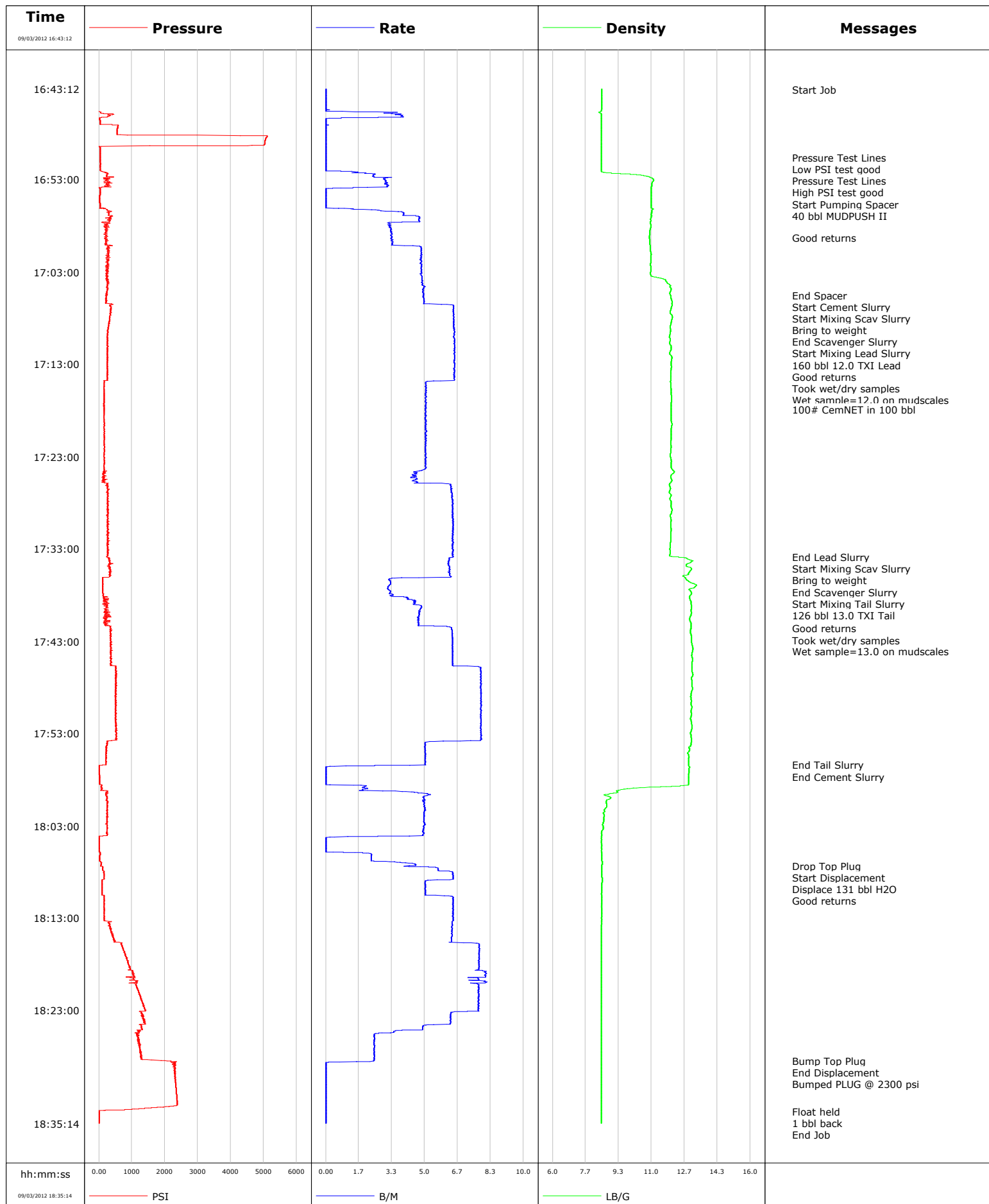


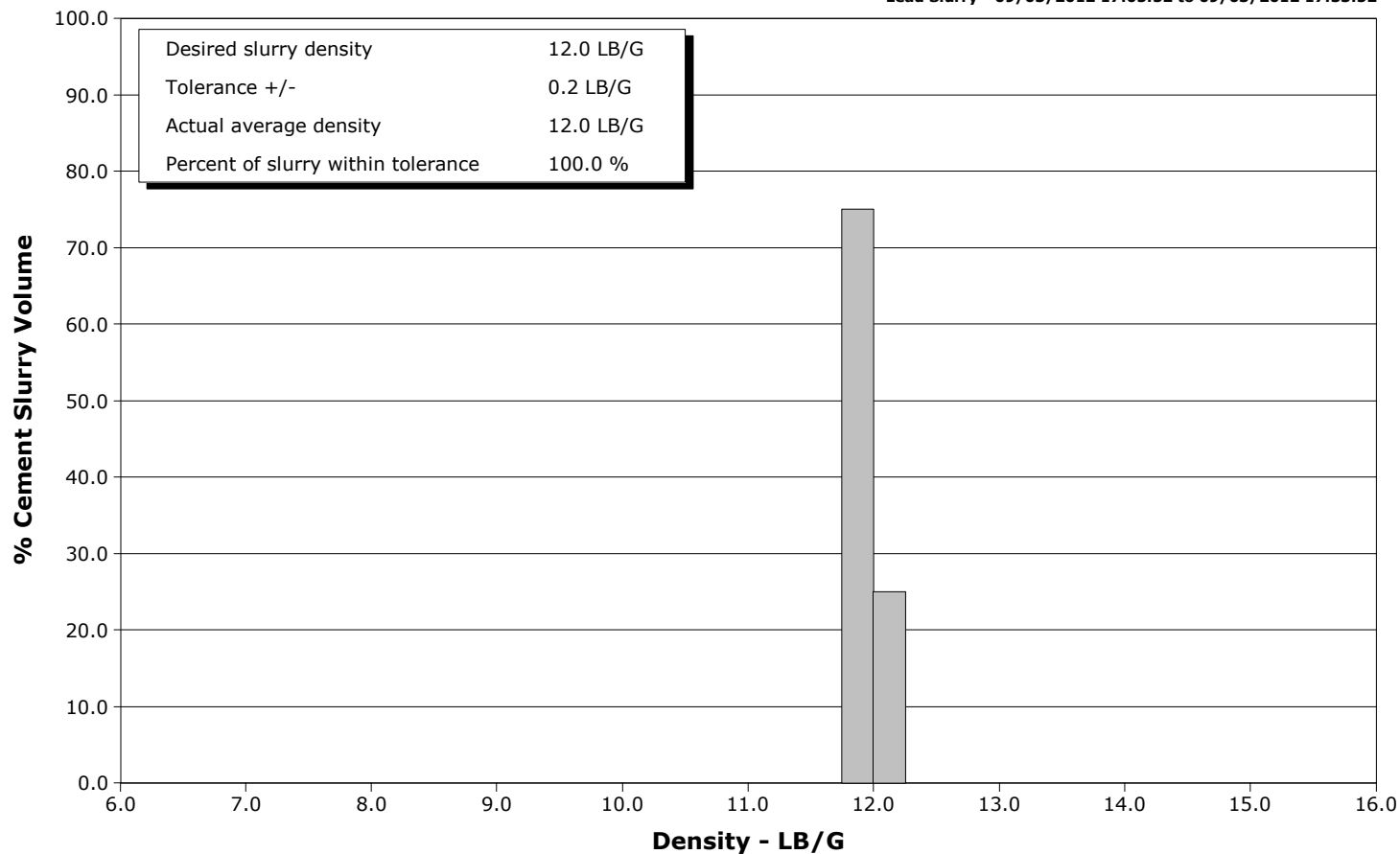
<b>Well</b>	Shideler Fee 31-8B	<b>Client</b>	Encana
<b>Field</b>	Mamm Creek	<b>SIR No.</b>	CAET-00081
<b>Engineer</b>	Matt Fair/Cole Fairbrook	<b>Job Type</b>	4 1/2" Production
<b>Country</b>	United States	<b>Job Date</b>	09-03-2012



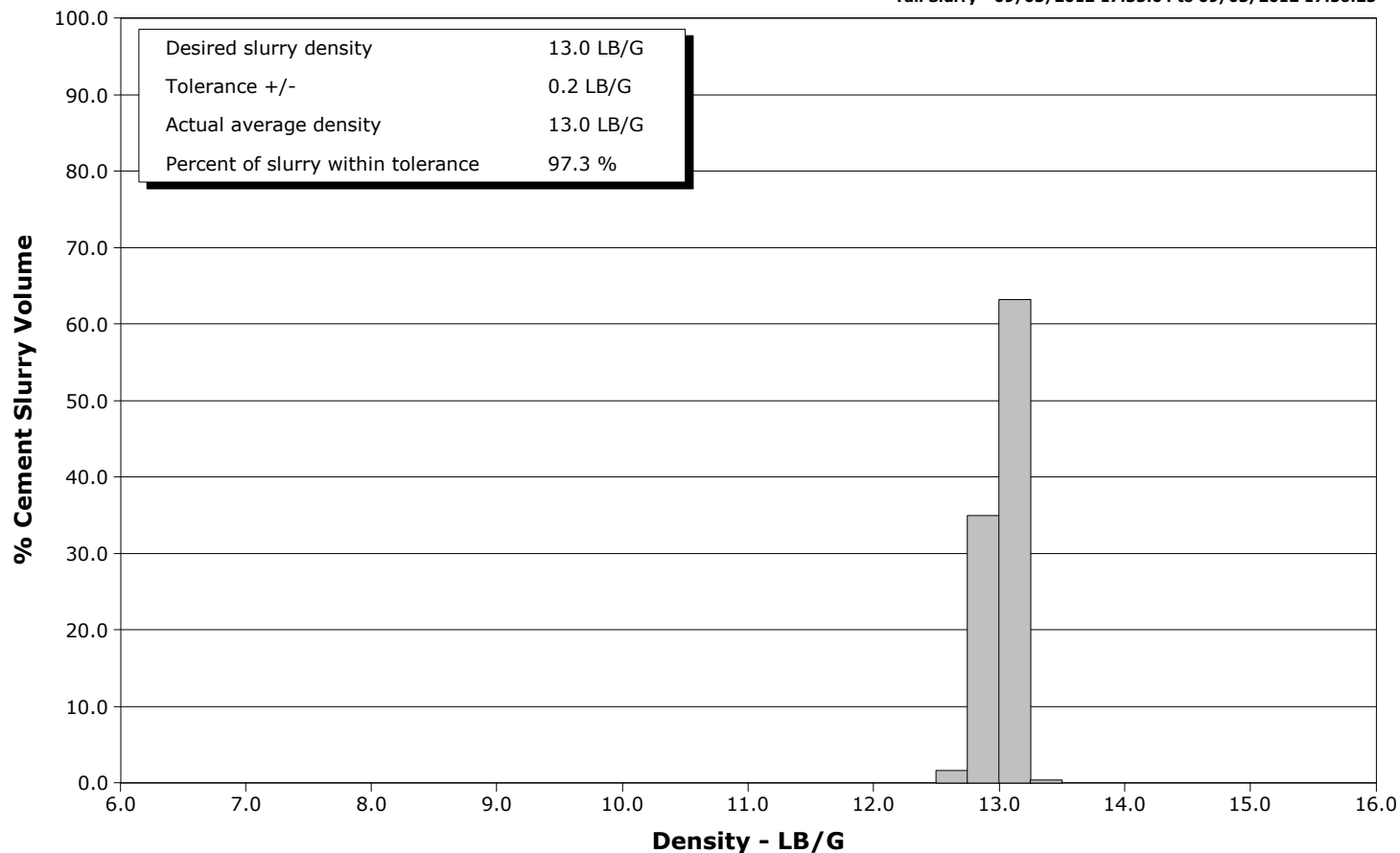
**Well** Shideler Fee 31-8B  
**Field** Mamm Creek  
**Engineer** Matt Fair/Cole Fairbrook  
**Country** United States

**Client** Encana  
**SIR No.** CAET-00081  
**Job Type** 4 1/2" Production  
**Job Date** 09-03-2012

**Lead Slurry - 09/03/2012 17:05:52 to 09/03/2012 17:33:52**



**Tail Slurry - 09/03/2012 17:35:04 to 09/03/2012 17:56:25**



					Customer Encana			Job Number CAET-00081									
Well Shideler Fee 31-8B				Location (legal)			Schlumberger Location			Job Start Sep/03/2012							
Field Mamm Creek		Formation Name/Type Shale			Deviation deg		Bit Size 8.5 in		Well MD 8486.0 ft		Well TVD 8486.0 ft						
County Garfield		State/Province Colorado			BHP psi		BHST 230 degF		BHCT 186 degF		Pore Press. Gradient lb/gal						
Well Master 0631395608		API/UWI															
Rig Name Patterson 303		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		8486.0		4.5		11.6		N80		BUTT			
						0.0		0.0		0.0							
Drilling Fluid Type Bentonite		Max. Density 9.80 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe											
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type 4 1/2" Production															
Max. Allowed Tub. Press 7780 psi		Max. Allowed Ann. Press 6350 psi		WH Connection Single Cement head		Perforations/Open Hole											
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft			
						ft		ft						Diameter in			
						ft		ft									
						Treat Down Casing		Displacement 131.0 bbl		Packer Type		Packer Depth ft					
						Tubing Vol. bbl		Casing Vol. 132.0 bbl		Annular Vol. 224.0 bbl		Openhole Vol. 582.0 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 6189 psi		Shoe Type Float				Squeeze Type											
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 8486.0 ft				Tool Type							
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth ft							
Cement Head Type Single		Stage Tool Depth ft				Tail Pipe Size in											
Job Scheduled For Sep/03/2012 12:00		Arrived on Location Sep/03/2012 12:00		Leave Location Sep/03/2012 18:00		Collar Type Float				Tail Pipe Depth ft							
						Collar Depth 8441.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message										
09/03/2012	16:43:12	8.48	-2	0.0	29.8	29.8	Started Acquisition										
09/03/2012	16:43:16	8.48	-2	0.0	29.8	29.8	Start Job										
09/03/2012	16:45:42	8.41	54	2.6	0.1	0.1											
09/03/2012	16:48:12	8.47	859	0.0	2.3	2.3											
09/03/2012	16:50:37	8.47	43	0.0	2.3	2.3	Pressure Test Lines										
09/03/2012	16:50:38	8.47	43	0.0	2.3	2.3	Low PSI test good										
09/03/2012	16:50:39	8.47	43	0.0	2.3	2.3	High PSI test good										
09/03/2012	16:50:42	8.47	43	0.0	2.3	2.3											
09/03/2012	16:52:26	9.93	272	2.5	0.5	0.5	Start Pumping Spacer										
09/03/2012	16:52:27	9.93	243	2.5	0.6	0.6	40 bbl MUDPUSH II										
09/03/2012	16:53:12	11.09	150	3.0	2.7	2.7											
09/03/2012	16:55:42	11.00	31	0.0	4.8	4.8											
09/03/2012	16:58:12	10.96	225	3.3	12.5	12.5											
09/03/2012	16:59:18	10.90	211	3.3	16.1	16.1	Good returns										
09/03/2012	17:00:42	10.94	280	4.8	21.6	21.6											
09/03/2012	17:03:12	10.95	215	4.8	33.7	33.7											
09/03/2012	17:05:32	11.96	225	4.9	8.2	45.1	End Spacer										
09/03/2012	17:05:36	11.96	229	5.0	8.5	45.4	Start Cement Slurry										
09/03/2012	17:05:37	11.96	205	4.9	8.6	45.5	Start Mixing Scav Slurry										
09/03/2012	17:05:38	11.96	205	4.9	8.7	45.6	Bring to weight										
09/03/2012	17:05:42	11.96	247	4.9	9.0	45.9											

Well			Field		Job Start		Customer		Job Number
Shideler Fee 31-8B			Mamm Creek		Sep/03/2012		Encana		CAET-00081
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message		
09/03/2012	17:05:53	11.98	227	5.0	9.9	46.8	160 bbl 12.0 TXI Lead		
09/03/2012	17:08:03	12.04	341	6.5	23.0	59.8	Good returns		
09/03/2012	17:08:12	12.03	322	6.5	23.9	60.8			
09/03/2012	17:09:55	11.92	254	6.5	35.1	71.9	Took wet/dry samples		
09/03/2012	17:10:07	11.90	244	6.5	36.4	73.2	Wet sample=12.0 on mudscales		
09/03/2012	17:10:42	11.92	256	6.5	40.1	77.0			
09/03/2012	17:13:12	12.01	268	6.5	56.4	93.3			
09/03/2012	17:15:42	11.99	154	5.1	71.4	108.3			
09/03/2012	17:17:56	12.00	150	5.0	82.7	119.6	100# CemNET in 100 bbl		
09/03/2012	17:18:12	12.00	152	5.1	84.0	120.9			
09/03/2012	17:20:42	11.99	157	5.1	96.7	133.5			
09/03/2012	17:23:12	11.96	163	5.1	109.3	146.2			
09/03/2012	17:25:42	12.02	188	4.6	121.3	158.2			
09/03/2012	17:28:12	11.99	267	6.4	136.8	173.7			
09/03/2012	17:30:42	11.98	278	6.4	152.9	189.8			
09/03/2012	17:33:12	11.94	276	6.4	168.9	205.8			
09/03/2012	17:33:52	12.12	249	6.4	173.2	210.1	End Lead Slurry		
09/03/2012	17:33:57	12.49	286	6.3	0.1	210.6	Start Mixing Scav Slurry		
09/03/2012	17:33:58	12.62	286	6.3	0.2	210.7	Bring to weight		
09/03/2012	17:34:34	12.90	343	6.2	3.9	214.5	End Scavenger Slurry		
09/03/2012	17:35:04	12.99	344	6.3	7.1	217.6	Start Mixing Tail Slurry		
09/03/2012	17:35:06	13.00	340	6.2	7.3	217.8	126 bbl 13.0 TXI Tail		
09/03/2012	17:35:42	12.86	320	6.3	11.0	221.5			
09/03/2012	17:38:12	12.91	245	3.7	20.5	231.0			
09/03/2012	17:40:42	12.92	193	4.7	32.0	242.5			
09/03/2012	17:41:37	12.99	361	6.4	36.7	247.2	Good returns		
09/03/2012	17:41:45	12.98	381	6.4	37.5	248.0	Took wet/dry samples		
09/03/2012	17:41:46	12.98	343	6.4	37.6	248.1	Wet sample=13.0 on mudscales		
09/03/2012	17:43:12	13.04	346	6.4	46.8	257.3			
09/03/2012	17:45:42	13.05	507	6.5	62.8	273.3			
09/03/2012	17:48:12	13.07	509	7.9	82.4	292.9			
09/03/2012	17:50:42	13.01	495	7.8	102.0	312.5			
09/03/2012	17:53:12	13.01	522	7.9	121.6	332.1			
09/03/2012	17:55:42	12.88	231	5.0	136.0	346.5			
09/03/2012	17:56:25	12.87	211	5.0	139.6	350.1	End Tail Slurry		
09/03/2012	17:56:26	12.87	106	5.0	139.7	350.2	End Cement Slurry		
09/03/2012	17:58:12	12.88	24	0.0	140.0	350.5			
09/03/2012	18:00:42	8.73	249	5.0	8.2	358.9			
09/03/2012	18:03:12	8.57	241	5.0	20.7	371.3			
09/03/2012	18:05:42	8.47	7	0.0	0.0	376.1			
09/03/2012	18:07:20	8.49	53	4.2	4.2	380.2	Drop Top Plug		
09/03/2012	18:07:21	8.49	53	4.2	4.2	380.3	Start Displacement		
09/03/2012	18:08:12	8.48	154	6.4	9.1	385.2			
09/03/2012	18:08:30	8.48	157	6.4	11.0	387.1	Displace 131 bbl H2O		
09/03/2012	18:08:41	8.51	164	6.4	12.2	388.3	Good returns		
09/03/2012	18:10:42	8.48	170	6.4	22.8	398.9			
09/03/2012	18:13:12	8.48	158	6.5	38.9	415.0			
09/03/2012	18:15:42	8.47	706	7.4	54.9	431.0			
09/03/2012	18:18:12	8.47	919	7.8	74.2	450.3			
09/03/2012	18:20:42	8.47	1179	7.7	93.8	469.9			
09/03/2012	18:23:12	8.47	1285	6.3	113.0	489.1			
09/03/2012	18:25:42	8.46	1206	2.5	126.1	502.2			
09/03/2012	18:28:12	8.46	1303	2.4	132.3	508.3			
09/03/2012	18:28:26	8.46	1890	2.4	132.8	508.9	Bump Top Plug		

Well			Field		Job Start		Customer		Job Number
Shideler Fee 31-8B			Mamm Creek		Sep/03/2012		Encana		CAET-00081
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message		
09/03/2012	18:28:29	8.46	2179	2.4	132.9	509.0	Bumped PLUG @ 2300 psi		
09/03/2012	18:30:42	8.46	2317	0.0	133.1	509.2			
09/03/2012	18:33:12	8.47	2379	0.0	133.1	509.2			
09/03/2012	18:33:56	8.47	5	0.0	133.1	509.2	Float held		
09/03/2012	18:34:36	8.47	7	0.0	133.1	509.2	1 bbl back		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.6	N2	Mud	Maximum Rate 8.1	Total Slurry 288.0	Mud 0.0	Spacer 40.3	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 5115	Final 17	Average 489	Bump Plug to 2000	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 287.0 bbl		Displacement 130.9 bbl	Mix Water Temp 72 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl		
					Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Charlie Brown			Schlumberger Supervisor Matt Fair/Cole Fairbrook			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	



# Service Quality Evaluation

Client:	Encana
Field:	Mamm Creek
Rig:	Patterson 303
Well:	Shideler Fee 31-8B
Service Line:	Cementing
Job Type:	4 1/2" Production

Service Order #:	
Date:	Sep/03/2012
Operating Time (hh:mm):	00:00
Client Rep:	Charlie Brown
Schlumberger Engineer:	Matt Fair/Cole Fairbrook
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:
	Water-009933   Lead-009814, 009852   Tail-009928, 010174
Client Signature:	Schlumberger Signature: