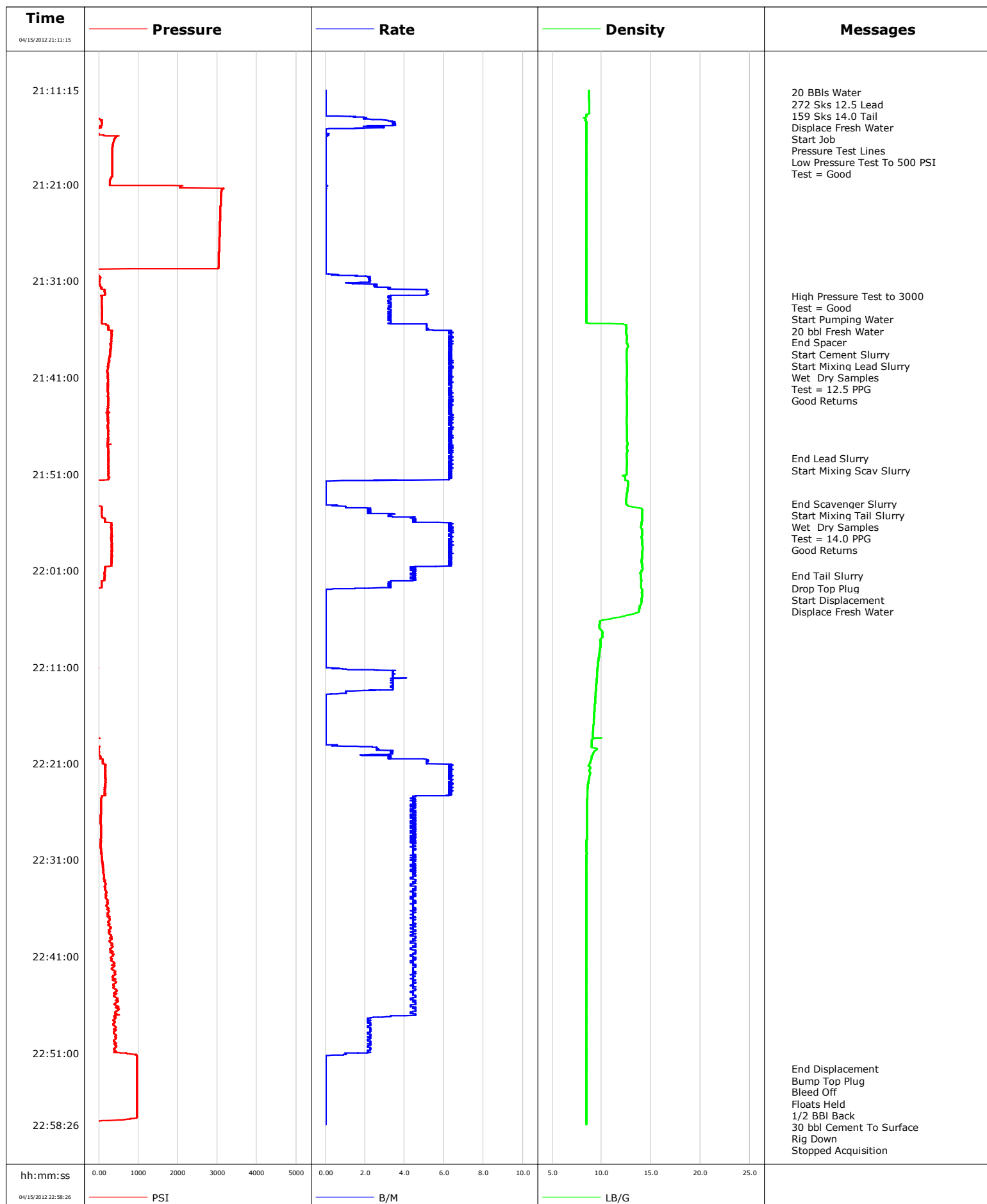


<b>Well</b>	EF14B-27 P	<b>Client</b>	Encana
<b>Field</b>		<b>SIR No.</b>	
<b>Engineer</b>		<b>Job Type</b>	9 5/8 Surface
<b>Country</b>	United States	<b>Job Date</b>	04-15-2012

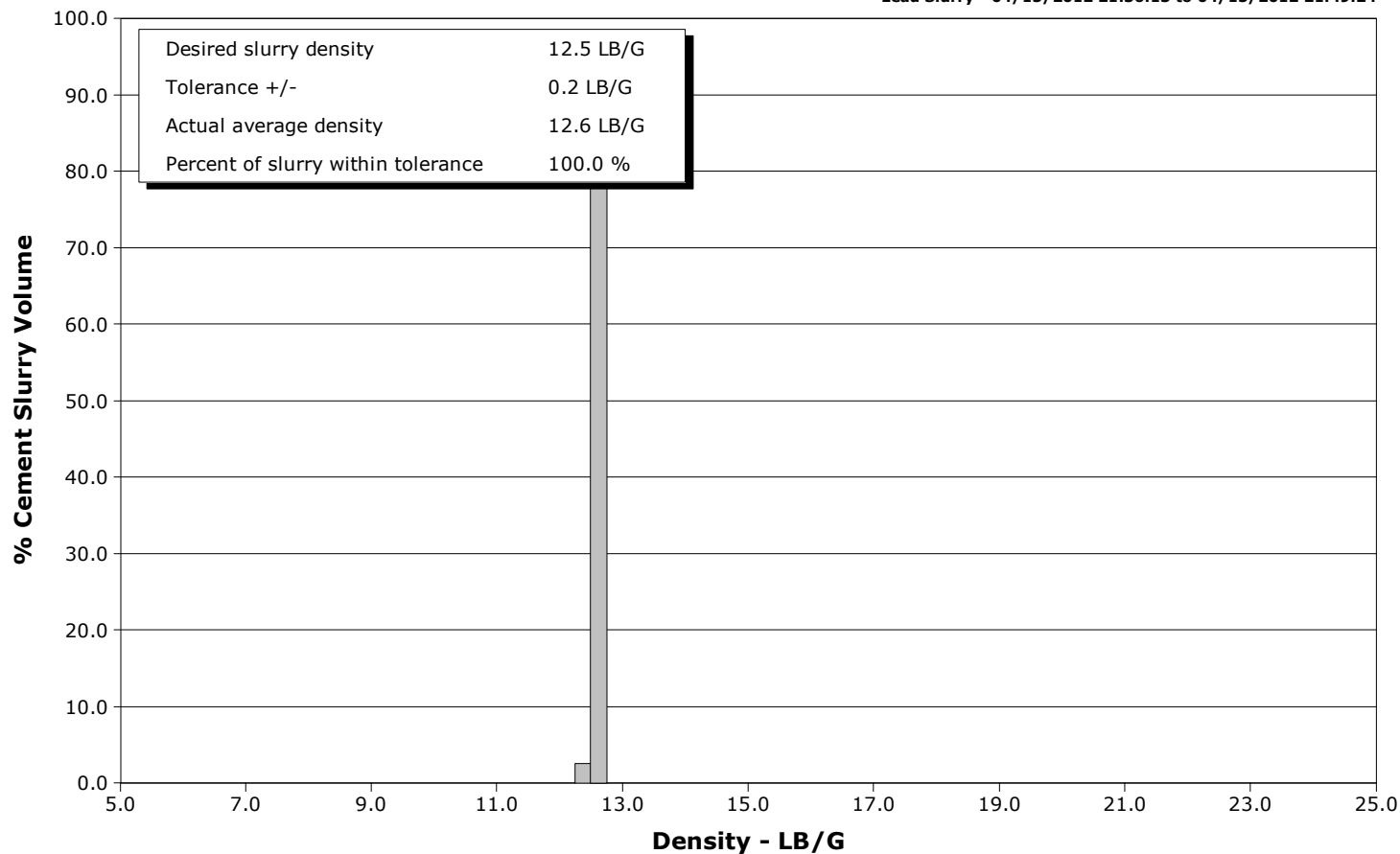


# Schlumberger Cementing Qa/Qc Density Report

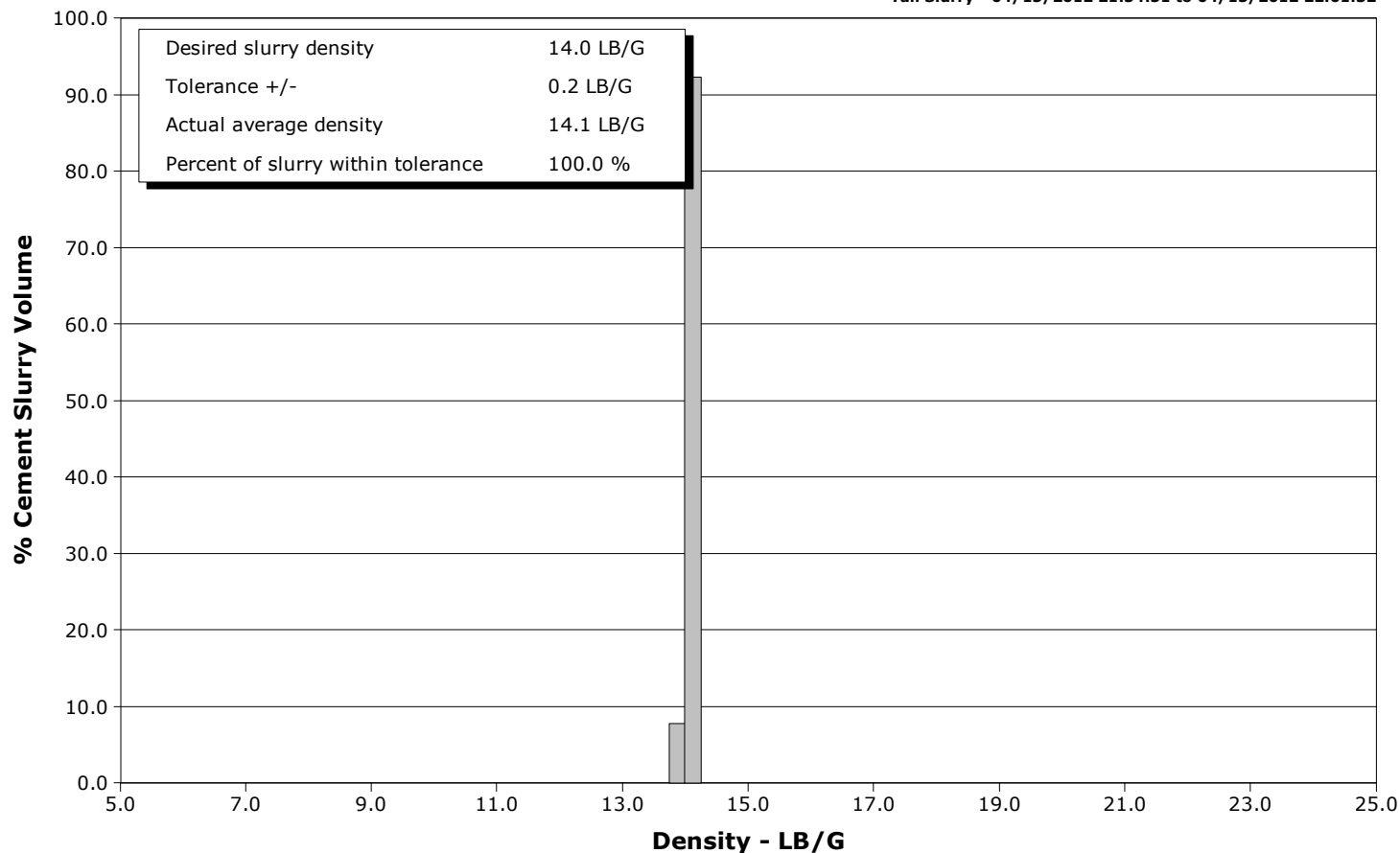
**Well** EF14B-27 P  
**Field**  
**Engineer**  
**Country** United States

**Client** Encana  
**SIR No.**  
**Job Type** 9 5/8 Surface  
**Job Date** 04-15-2012

**Lead Slurry - 04/15/2012 21:36:13 to 04/15/2012 21:49:24**



**Tail Slurry - 04/15/2012 21:54:51 to 04/15/2012 22:01:32**





# Cementing Service Report

				Customer Encana			Job Number BAWM-00045																							
Well EF14B-27 P			Location (legal)			Schlumberger Location GCO			Job Start Apr/15/2012																					
Field N Parachute		Formation Name/Type Shale			Deviation		Bit Size 12.3 in		Well MD 1850.0 ft		Well TVD																			
County Garfield		State/Province Colorado			BHP		BHST 100 degF		BHCT 87 degF		Pore Press. Gradient																			
Well Master 0631244195		API/UWI																												
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																
						120.0		16.000		65.0		J55		8RD																
						1832.0		9.630		36.0		N80		8RD																
Drilling Fluid Type Bentonite			Max. Density		Plastic Viscosity		Tubing/Drill Pipe																							
Service Line Cementing			Job Type 9 5/8 Surface			Depth,		Size,		Weight,		Grade		Thread																
Max. Allowed Tub. Press 3000 psi			Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole																							
Service Instructions Rate And Density Checked 272 sks 12.5 lead 158 sks 14.0 Tail Displace Fresh Water											No. of Shots		Total Interval																	
															Treat Down Casing		Displacement 138.0 bbl		Packer Type		Packer Depth									
																							Tubing Vol.		Casing Vol. 140.0 bbl		Annular Vol. 112.0 bbl		Openhole Vol. 263.0 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 906 psi			Shoe Type Guide			Squeeze Type																					
Pipe Rotated <input type="checkbox"/>			Pipe Reciprocated <input type="checkbox"/>			Shoe Depth 1832.0 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 Apr/15/2012			Arrived on Location Apr/15/2012		Leave Location Apr/15/2012		Collar Type Float				Tail Pipe Depth																			
							Collar Depth 1787.0 ft				Sqz. Total Vol.																			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message																								
04/15/2012	20:41:52					Started Acquisition																								
04/15/2012	21:11:15	-49	0.0	8.71	0.0																									
04/15/2012	21:11:30					20 BBIs Water																								
04/15/2012	21:11:30					272 Sks 12.5 Lead																								
04/15/2012	21:11:30					159 Sks 14.0 Tail																								
04/15/2012	21:11:30	-50	0.0	8.71	0.0																									
04/15/2012	21:11:31					Displace Fresh Water																								
04/15/2012	21:11:31	-50	0.0	8.71	0.0																									
04/15/2012	21:11:38					Start Job																								
04/15/2012	21:11:38	-51	0.0	8.72	0.0																									
04/15/2012	21:11:46					Pressure Test Lines																								
04/15/2012	21:11:46					Low Pressure Test To 500 PSI																								
04/15/2012	21:11:46	-50	0.0	8.72	0.0																									
04/15/2012	21:11:47					Test = Good																								
04/15/2012	21:11:47	-50	0.0	8.72	0.0																									
04/15/2012	21:11:52	-50	0.0	8.72	0.0																									
04/15/2012	21:13:52	-53	0.0	8.47	0.0																									
04/15/2012	21:15:52	-0	0.0	8.46	3.6																									
04/15/2012	21:17:52	341	0.0	8.46	3.6																									
04/15/2012	21:19:52	336	0.0	8.46	3.6																									
04/15/2012	21:21:52	3096	0.0	8.46	3.6																									

Well			Field		Job Start		Customer		Job Number	
EF14B-27 P			N Parachute		Apr/15/2012		Encana		BAWM-00045	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
04/15/2012	21:25:52	3056		0.0	8.46		3.6			
04/15/2012	21:27:52	3040		0.0	8.46		3.6			
04/15/2012	21:29:52	-15		0.0	8.46		3.6			
04/15/2012	21:31:52	64		3.2	8.46		6.9			
04/15/2012	21:32:34								High Pressure Test to 3000	
04/15/2012	21:32:34								Test = Good	
04/15/2012	21:32:34								Start Pumping Water	
04/15/2012	21:32:34	70		3.3	8.46		10.4			
04/15/2012	21:32:35								20 bbl Fresh Water	
04/15/2012	21:32:35	59		3.2	8.46		10.4			
04/15/2012	21:33:52	75		3.2	8.46		14.6			
04/15/2012	21:35:25								End Spacer	
04/15/2012	21:35:25	77		3.3	8.73		19.6			
04/15/2012	21:35:52	246		5.1	12.50		21.8			
04/15/2012	21:36:04								Start Cement Slurry	
04/15/2012	21:36:04	231		5.1	12.49		22.8			
04/15/2012	21:36:13								Start Mixing Lead Slurry	
04/15/2012	21:36:13	312		6.2	12.47		23.7			
04/15/2012	21:36:15								Wet Dry Samples	
04/15/2012	21:36:15	333		6.2	12.48		23.9			
04/15/2012	21:36:16								Test = 12.5 PPG	
04/15/2012	21:36:16								Good Returns	
04/15/2012	21:36:16	315		6.2	12.47		24.0			
04/15/2012	21:37:52	311		6.4	12.68		34.1			
04/15/2012	21:39:52	236		6.4	12.55		46.8			
04/15/2012	21:41:52	223		6.4	12.56		59.4			
04/15/2012	21:43:52	238		6.2	12.55		72.0			
04/15/2012	21:45:52	230		6.4	12.53		84.7			
04/15/2012	21:47:52	210		6.4	12.60		97.3			
04/15/2012	21:49:24								End Lead Slurry	
04/15/2012	21:49:24	242		6.2	12.56		107.0			
04/15/2012	21:49:26								Start Mixing Scav Slurry	
04/15/2012	21:49:26	225		6.4	12.56		107.2			
04/15/2012	21:49:52	234		6.2	12.56		109.9			
04/15/2012	21:51:52	-43		0.0	12.68		121.3			
04/15/2012	21:53:52	-39		0.0	12.47		121.3			
04/15/2012	21:54:04								End Scavenger Slurry	
04/15/2012	21:54:04	-39		0.0	12.46		121.3			
04/15/2012	21:54:51								Start Mixing Tail Slurry	
04/15/2012	21:54:51	70		2.3	14.10		122.3			
04/15/2012	21:54:58								Wet Dry Samples	
04/15/2012	21:54:58								Test = 14.0 PPG	
04/15/2012	21:54:58	70		2.3	14.11		122.5			
04/15/2012	21:54:59								Good Returns	
04/15/2012	21:54:59	69		2.3	14.11		122.6			
04/15/2012	21:55:52	150		4.4	14.07		125.8			
04/15/2012	21:57:52	312		6.4	14.10		138.1			
04/15/2012	21:59:52	334		6.4	14.07		150.7			
04/15/2012	22:01:32								End Tail Slurry	
04/15/2012	22:01:32	149		4.5	13.97		159.5			
04/15/2012	22:01:52	146		4.3	13.96		160.9			
04/15/2012	22:02:51								Drop Top Plug	
04/15/2012	22:02:51	-11		2.0	14.01		164.4			
04/15/2012	22:02:54								Start Displacement	

Well			Field		Job Start		Customer		Job Number	
EF14B-27 P			N Parachute		Apr/15/2012		Encana		BAWM-00045	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
04/15/2012	22:03:00					Displace Fresh Water				
04/15/2012	22:03:00	-51	0.0	14.09	164.5					
04/15/2012	22:03:52	-47	0.0	14.07	164.5					
04/15/2012	22:05:52	-47	0.0	11.70	164.5					
04/15/2012	22:07:52	-47	0.0	10.10	164.5					
04/15/2012	22:09:52	-39	0.0	9.73	164.5					
04/15/2012	22:11:52	-27	3.4	9.53	166.5					
04/15/2012	22:13:52	-29	0.0	9.39	172.2					
04/15/2012	22:15:52	-43	0.0	9.25	172.2					
04/15/2012	22:17:52	-47	0.0	9.10	172.2					
04/15/2012	22:19:52	-0	3.3	9.20	174.0					
04/15/2012	22:21:52	171	6.4	8.79	183.9					
04/15/2012	22:23:52	148	6.4	8.57	196.5					
04/15/2012	22:25:52	54	4.4	8.51	206.3					
04/15/2012	22:27:52	52	4.5	8.49	215.1					
04/15/2012	22:29:52	54	4.4	8.48	224.0					
04/15/2012	22:31:52	112	4.4	8.47	232.9					
04/15/2012	22:33:52	152	4.5	8.46	241.8					
04/15/2012	22:35:52	214	4.4	8.46	250.7					
04/15/2012	22:37:52	264	4.4	8.46	259.6					
04/15/2012	22:39:52	332	4.5	8.46	268.5					
04/15/2012	22:41:52	350	4.5	8.46	277.4					
04/15/2012	22:43:52	386	4.4	8.46	286.3					
04/15/2012	22:45:52	413	4.5	8.46	295.1					
04/15/2012	22:47:52	399	2.3	8.46	302.6					
04/15/2012	22:49:52	393	2.3	8.46	307.0					
04/15/2012	22:51:52	960	0.0	8.46	309.8					
04/15/2012	22:52:39					End Displacement				
04/15/2012	22:52:39	960	0.0	8.46	309.8					
04/15/2012	22:52:51					Bump Top Plug				
04/15/2012	22:52:51	959	0.0	8.46	309.8					
04/15/2012	22:53:52	960	0.0	8.46	309.8					
04/15/2012	22:54:26					Bleed Off				
04/15/2012	22:54:26	960	0.0	8.46	309.8					
04/15/2012	22:55:35					Floats Held				
04/15/2012	22:55:35	961	0.0	8.46	309.8					
04/15/2012	22:55:43					1/2 BBl Back				
04/15/2012	22:55:43					30 bbl Cement To Surface				
04/15/2012	22:55:43	961	0.0	8.46	309.8					
04/15/2012	22:55:44					Rig Down				
04/15/2012	22:55:44	961	0.0	8.46	309.8					
04/15/2012	22:55:52	962	0.0	8.46	309.8					
04/15/2012	22:57:52	722	0.0	8.46	309.8					

Well EF14B-27 P	Field N Parachute	Job Start Apr/15/2012	Customer Encana	Job Number BAWM-00045
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Post Job Summary

Average Pump Rates,					Volume of Fluid Injected,			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
Treating Pressure Summary,					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp 55 degF	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	
					Washed Thru Perfs	<input type="checkbox"/>	To	
Customer or Authorized Representative Floyd Roberts			Schlumberger Supervisor Jordan Moreland			Circulation Lost	<input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>
					-		-	



# Service Quality Evaluation

Client:	Encana
Field:	N Parachute
Rig:	Patterson 303
Well:	EF14B-27 P
Service Line:	Cementing
Job Type:	9 5/8 Surface

Service Order #:	
Date:	Apr/15/2012
Operating Time:	0.0
Client Rep:	Encana
Schlumberger Engineer:	Jordan Moreland
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 type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
1b	Free of environmental spill or non-compliant discharge	5	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
1c	Free of RIRs	5	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
1d	Wellsite left clean	4	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>	0
Sub-total							0%

2	Design / Preparation					
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
2b	Equipment maintenance schedule completed / Green tagged	2	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
2c	All materials and equipment required for job/contingency checked & on location	2	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
2d	Safety / pre-job meeting conducted with all involved present	2	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
Sub-total						0%

3	Execution					
3a	Lost time < 30 mins	3	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3b	Equipment pressure tested succesfully	3	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3d	Plugs / darts released and tested succesfully	2	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3e	Density variation met expectations	2	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3f	Personnel performed as per expectations	2	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3g	Equipment performed as per expectations	2	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3h	Job pumped per design	3	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3i	Did job start on time	2	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
Sub-total						0%

4	Evaluation					
4a	Main job objective achieved with no consequential non-productive time	10	yes	<input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
Sub-total						0%

Total 0%

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

Client:	Schlumberger:
<div></div>	<div></div>
Client Signature:	Schlumberger Signature: