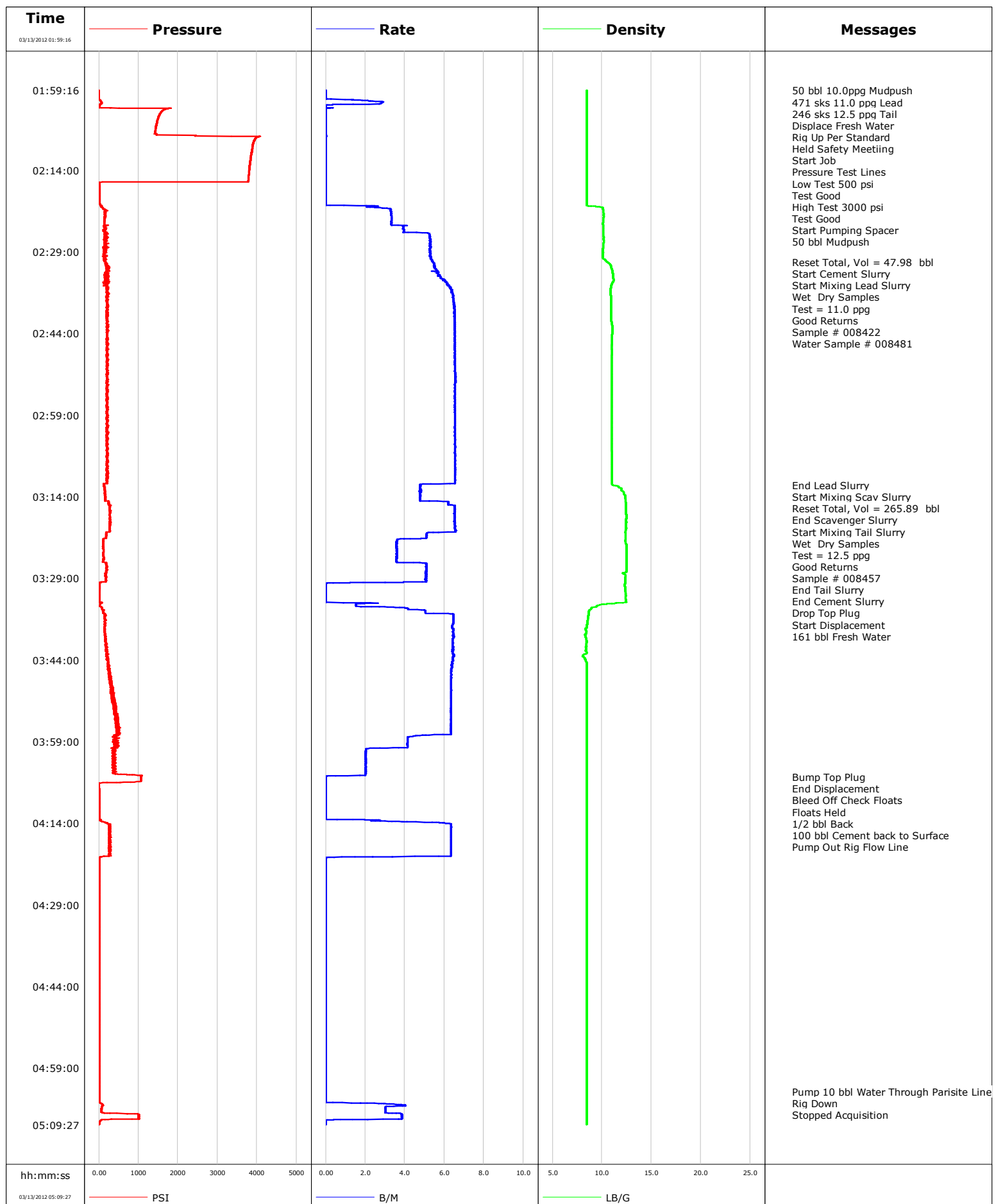


Well	SG 8509E-21 N	Client	Encana
Field	Story Gulch	SIR No.	
Engineer	Jordan Moreland	Job Type	9 5/8 Surface
Country	United States	Job Date	03-13-2012

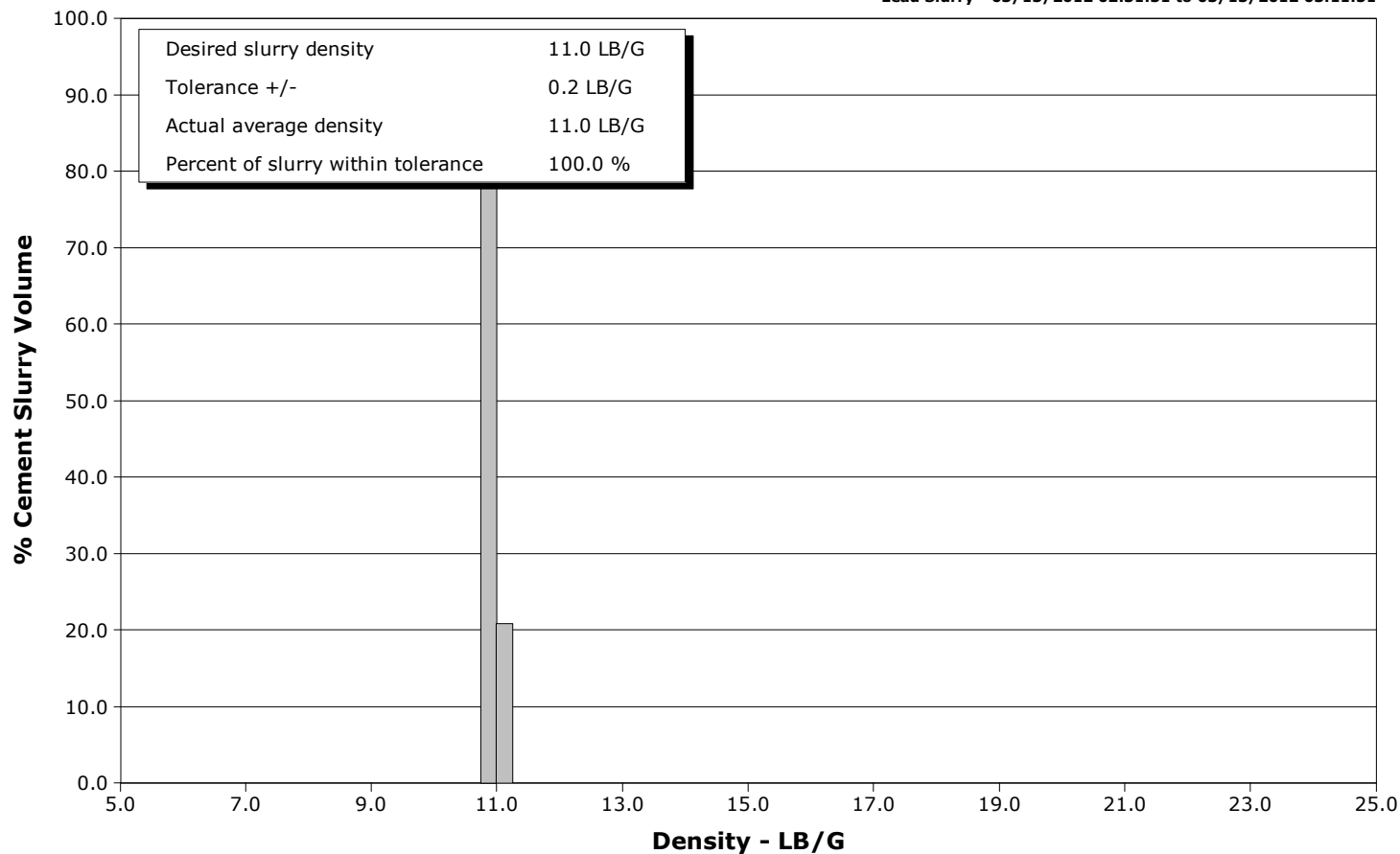


Schlumberger Cementing Qa/Qc Density Report

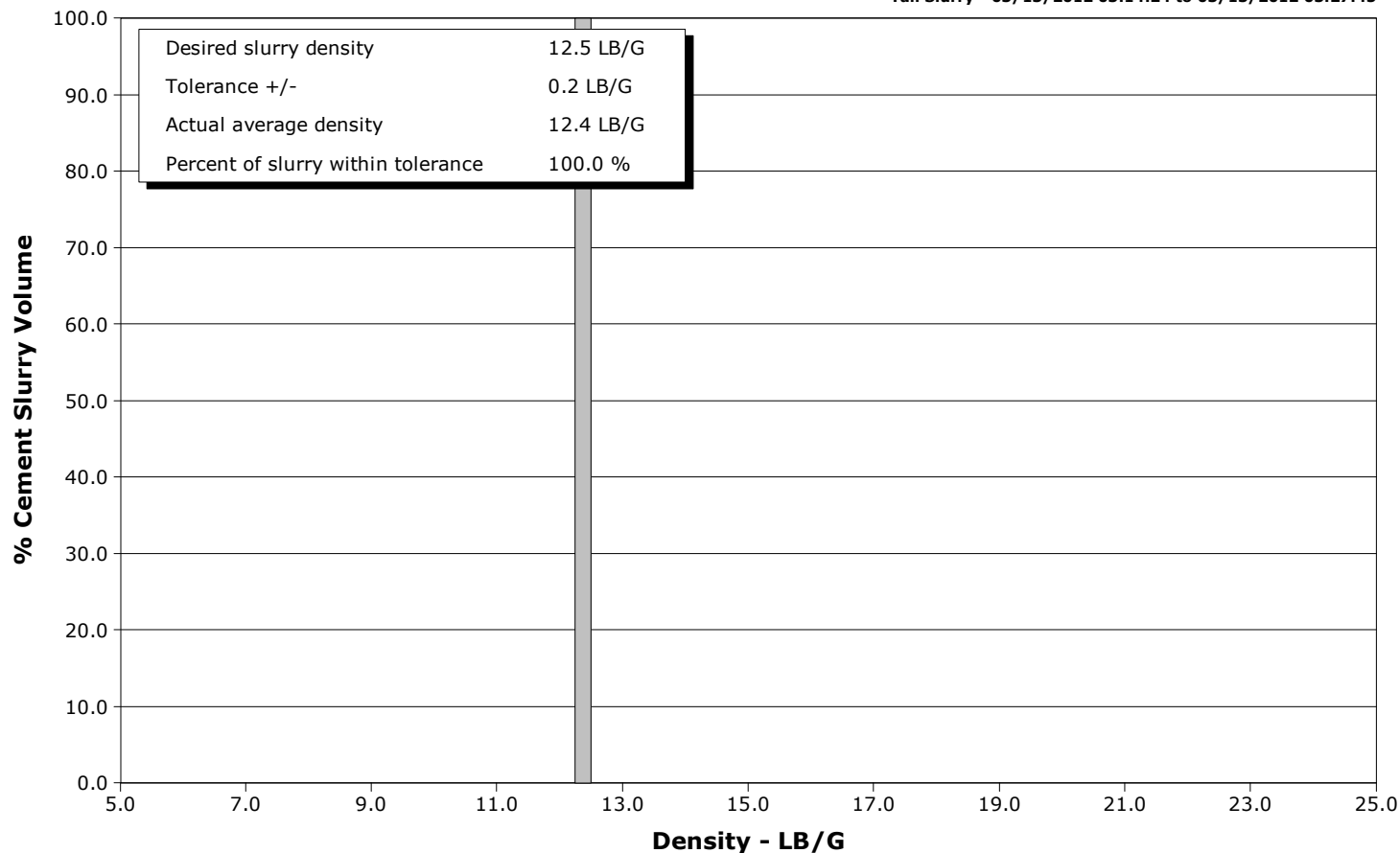
Well SG 8509E-21 N
Field Story Gulch
Engineer Jordan Moreland
Country United States

Client Encana
SIR No.
Job Type 9 5/8 Surface
Job Date 03-13-2012

Lead Slurry - 03/13/2012 02:31:31 to 03/13/2012 03:11:51



Tail Slurry - 03/13/2012 03:14:24 to 03/13/2012 03:27:45





Cementing Service Report

				Customer Encana			Job Number BTX1-00301									
Well SG 8509E-21 N SG 8509E-21 N				Location (legal)			Schlumberger Location GCO			Job Start Mar/13/2012						
Field Story Gulch			Formation Name/Type Shale			Deviation		Bit Size 14.8 in		Well MD		Well TVD				
County Garfield			State/Province Colorado			BHP		BHST 110 degF		BHCT 91 degF		Pore Press. Gradient				
Well Master 0631310454			API/UWI													
Rig Name Patterson 306		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		120.0		16.000		65.0						
						2129.0		9.630		36.0						
Drilling Fluid Type Bentonite			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 161.0 bbl		Packer Type		Packer Depth				
						Tubing Vol.		Casing Vol. 163.0 bbl		Annular Vol. 260.0 bbl		Openhole Vol. 426.0 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 1053 psi						Shoe Type Guide				Squeeze Type						
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 2129.0 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 Mar/13/2012		Arrived on Location Mar/13/2012		Leave Location Mar/13/2012		Collar Type Float				Tail Pipe Depth						
						Collar Depth 2086.0 ft				Sqz. Total Vol.						
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message										
03/12/2012	23:50:48					Started Acquisition										
03/13/2012	01:59:16	-5	0.0	8.46	0.0											
03/13/2012	01:59:18					50 bbl 10.0ppg Mudpush										
03/13/2012	01:59:18	-5	0.0	8.46	0.0											
03/13/2012	01:59:20					471 sks 11.0 ppg Lead										
03/13/2012	01:59:20					246 sks 12.5 ppg Tail										
03/13/2012	01:59:20					Displace Fresh Water										
03/13/2012	01:59:20					Rig Up Per Standard										
03/13/2012	01:59:20					Held Safety Meeting										
03/13/2012	01:59:20	-5	0.0	8.46	0.0											
03/13/2012	01:59:23					Start Job										
03/13/2012	01:59:23	-5	0.0	8.46	0.0											
03/13/2012	01:59:25					Pressure Test Lines										
03/13/2012	01:59:25	-5	0.0	8.46	0.0											
03/13/2012	01:59:26					Low Test 500 psi										
03/13/2012	01:59:26					Test Good										
03/13/2012	01:59:26	-5	0.0	8.46	0.0											
03/13/2012	01:59:27					High Test 3000 psi										
03/13/2012	01:59:27					Test Good										
03/13/2012	01:59:27	-5	0.0	8.46	0.0											
03/13/2012	02:00:48	-5	0.0	8.46	0.0											

Well SG 8509E-21 N SG 8509E-21 N			Field Story Gulch		Job Start Mar/13/2012	Customer Encana	Job Number BTX1-00301
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
03/13/2012	02:04:48	1480	0.0	8.46	2.3		
03/13/2012	02:06:48	1421	0.0	8.46	2.3		
03/13/2012	02:08:48	3911	0.0	8.46	2.3		
03/13/2012	02:10:48	3860	0.0	8.46	2.3		
03/13/2012	02:12:48	3816	0.0	8.46	2.3		
03/13/2012	02:14:48	3788	0.0	8.46	2.3		
03/13/2012	02:16:48	12	0.0	8.46	2.3		
03/13/2012	02:18:48	17	0.0	8.46	2.3		
03/13/2012	02:20:48	80	2.2	9.91	3.1		
03/13/2012	02:21:02					Start Pumping Spacer	
03/13/2012	02:21:02	99	3.2	10.08	3.7		
03/13/2012	02:21:03					50 bbl Mudpush	
03/13/2012	02:21:03	105	3.2	10.08	3.8		
03/13/2012	02:22:48	141	3.3	10.12	9.6		
03/13/2012	02:24:48	148	3.9	10.13	16.6		
03/13/2012	02:26:48	120	5.3	10.15	26.3		
03/13/2012	02:28:48	159	5.3	10.10	36.8		
03/13/2012	02:30:48	165	5.4	10.49	47.4		
03/13/2012	02:30:54					Reset Total, Vol = 47.98 bbl	
03/13/2012	02:30:54	183	5.4	10.54	48.0		
03/13/2012	02:31:30					Start Cement Slurry	
03/13/2012	02:31:30	211	5.5	10.88	51.3		
03/13/2012	02:31:31					Start Mixing Lead Slurry	
03/13/2012	02:31:31	211	5.5	10.88	51.4		
03/13/2012	02:31:33					Wet Dry Samples	
03/13/2012	02:31:33					Test = 11.0 ppg	
03/13/2012	02:31:33					Good Returns	
03/13/2012	02:31:33	212	5.5	10.88	51.5		
03/13/2012	02:31:34					Sample # 008422	
03/13/2012	02:31:34					Water Sample # 008481	
03/13/2012	02:31:34	212	5.5	10.89	51.6		
03/13/2012	02:32:48	157	5.7	11.07	58.5		
03/13/2012	02:34:48	219	6.2	11.02	70.2		
03/13/2012	02:36:48	202	6.4	10.88	82.8		
03/13/2012	02:38:48	203	6.5	10.92	95.7		
03/13/2012	02:40:48	233	6.5	10.89	108.7		
03/13/2012	02:42:48	203	6.5	11.06	121.8		
03/13/2012	02:44:48	211	6.5	11.01	134.8		
03/13/2012	02:46:48	213	6.5	10.97	147.8		
03/13/2012	02:48:48	238	6.5	10.98	160.9		
03/13/2012	02:50:48	221	6.5	10.96	173.9		
03/13/2012	02:52:48	206	6.6	10.96	187.0		
03/13/2012	02:54:48	201	6.5	10.96	200.1		
03/13/2012	02:56:48	210	6.5	10.96	213.1		
03/13/2012	02:58:48	224	6.5	10.96	226.2		
03/13/2012	03:00:48	211	6.5	10.96	239.2		
03/13/2012	03:02:48	206	6.5	10.96	252.3		
03/13/2012	03:04:48	197	6.5	10.97	265.4		
03/13/2012	03:06:48	207	6.5	10.99	278.4		
03/13/2012	03:08:48	210	6.5	11.00	291.5		
03/13/2012	03:10:48	198	6.5	11.00	304.6		
03/13/2012	03:11:51					End Lead Slurry	
03/13/2012	03:11:51	131	4.8	11.09	311.1		
03/13/2012	03:11:55					Start Mixing Scav Slurry	

Well SG 8509E-21 N SG 8509E-21 N			Field Story Gulch		Job Start Mar/13/2012	Customer Encana	Job Number BTX1-00301
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
03/13/2012	03:12:26					Reset Total, Vol = 265.89 bbl	
03/13/2012	03:12:26	144	4.8	11.88	313.9		
03/13/2012	03:12:48	141	4.8	11.95	315.6		
03/13/2012	03:14:23					End Scavenger Slurry	
03/13/2012	03:14:23	150	4.8	12.36	323.2		
03/13/2012	03:14:24					Start Mixing Tail Slurry	
03/13/2012	03:14:24	156	4.8	12.37	323.3		
03/13/2012	03:14:25					Wet Dry Samples	
03/13/2012	03:14:25	163	4.8	12.37	323.3		
03/13/2012	03:14:26					Test = 12.5 ppg	
03/13/2012	03:14:26					Good Returns	
03/13/2012	03:14:26					Sample # 008457	
03/13/2012	03:14:26	163	4.8	12.37	323.4		
03/13/2012	03:14:48	248	5.2	12.39	325.2		
03/13/2012	03:16:48	276	6.5	12.43	337.9		
03/13/2012	03:18:48	290	6.5	12.45	351.0		
03/13/2012	03:20:48	185	5.1	12.36	363.7		
03/13/2012	03:22:48	106	3.6	12.47	372.3		
03/13/2012	03:24:48	110	3.6	12.46	379.4		
03/13/2012	03:26:48	203	5.1	12.46	387.6		
03/13/2012	03:27:45					End Tail Slurry	
03/13/2012	03:27:45	187	5.1	12.45	392.4		
03/13/2012	03:28:00					End Cement Slurry	
03/13/2012	03:28:00	183	5.0	12.13	393.7		
03/13/2012	03:28:48	173	5.0	12.33	397.8		
03/13/2012	03:29:45					Drop Top Plug	
03/13/2012	03:29:45	62	3.0	12.38	402.5		
03/13/2012	03:29:46					Start Displacement	
03/13/2012	03:29:46	16	3.0	12.38	402.6		
03/13/2012	03:29:47					161 bbl Fresh Water	
03/13/2012	03:29:47	16	1.9	12.37	402.6		
03/13/2012	03:30:48	15	0.0	12.31	402.7		
03/13/2012	03:32:48	5	0.0	12.40	402.7		
03/13/2012	03:34:48	120	4.6	8.79	406.2		
03/13/2012	03:36:48	148	6.5	8.53	418.1		
03/13/2012	03:38:48	147	6.4	8.43	431.0		
03/13/2012	03:40:48	172	6.4	8.43	443.9		
03/13/2012	03:42:48	205	6.4	8.44	456.7		
03/13/2012	03:44:48	226	6.4	8.46	469.6		
03/13/2012	03:46:48	293	6.4	8.46	482.3		
03/13/2012	03:48:48	298	6.3	8.46	495.0		
03/13/2012	03:50:48	377	6.3	8.46	507.6		
03/13/2012	03:52:48	365	6.3	8.46	520.3		
03/13/2012	03:54:48	483	6.3	8.46	533.0		
03/13/2012	03:56:48	446	6.3	8.46	545.7		
03/13/2012	03:58:48	367	4.1	8.46	556.3		
03/13/2012	04:00:48	410	2.0	8.46	563.3		
03/13/2012	04:02:48	345	2.0	8.46	567.3		
03/13/2012	04:04:48	363	2.0	8.46	571.3		
03/13/2012	04:05:28					Bump Top Plug	
03/13/2012	04:05:28	1066	0.0	8.46	572.3		
03/13/2012	04:06:43					End Displacement	
03/13/2012	04:06:43	-4	0.0	8.46	572.3		
03/13/2012	04:06:45					Bleed Off Check Floats	

Well SG 8509E-21 N SG 8509E-21 N			Field Story Gulch		Job Start Mar/13/2012		Customer Encana		Job Number BTX1-00301	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
03/13/2012	04:06:45					1/2 bbl Back				
03/13/2012	04:06:45	-4	0.0	8.46	572.3					
03/13/2012	04:06:48	-3	0.0	8.46	572.3					
03/13/2012	04:07:31					100 bbl Cement back to Surface				
03/13/2012	04:07:31	-1	0.0	8.46	572.3					
03/13/2012	04:08:48	8	0.0	8.46	572.3					
03/13/2012	04:10:48	5	0.0	8.47	572.3					
03/13/2012	04:12:48	5	0.0	8.47	572.3					
03/13/2012	04:14:00					Pump Out Rig Flow Line				
03/13/2012	04:14:00	213	6.0	8.48	574.7					
03/13/2012	04:14:48	260	6.3	8.48	579.7					
03/13/2012	04:16:48	255	6.3	8.47	592.4					
03/13/2012	04:18:48	261	6.3	8.47	605.1					
03/13/2012	04:20:48	7	0.0	8.47	613.9					
03/13/2012	04:22:48	8	0.0	8.47	613.9					
03/13/2012	04:24:48	8	0.0	8.47	613.9					
03/13/2012	04:26:48	8	0.0	8.47	613.9					
03/13/2012	04:28:48	8	0.0	8.47	613.9					
03/13/2012	04:30:48	8	0.0	8.47	613.9					
03/13/2012	04:32:48	8	0.0	8.47	613.9					
03/13/2012	04:34:48	8	0.0	8.47	613.9					
03/13/2012	04:36:48	8	0.0	8.47	613.9					
03/13/2012	04:38:48	8	0.0	8.47	613.9					
03/13/2012	04:40:48	7	0.0	8.47	613.9					
03/13/2012	04:42:48	4	0.0	8.47	613.9					
03/13/2012	04:44:48	3	0.0	8.47	613.9					
03/13/2012	04:46:48	3	0.0	8.47	613.9					
03/13/2012	04:48:48	3	0.0	8.47	613.9					
03/13/2012	04:50:48	3	0.0	8.47	613.9					
03/13/2012	04:52:48	3	0.0	8.47	613.9					
03/13/2012	04:54:48	3	0.0	8.47	613.9					
03/13/2012	04:56:48	3	0.0	8.47	613.9					
03/13/2012	04:58:48	3	0.0	8.47	613.9					
03/13/2012	05:00:48	2	0.0	8.47	613.9					
03/13/2012	05:02:48	3	0.0	8.47	613.9					
03/13/2012	05:03:19					Pump 10 bbl Water Through Parisite Line				
03/13/2012	05:03:19					Rig Down				
03/13/2012	05:03:19	3	0.0	8.47	613.9					
03/13/2012	05:04:48	3	0.0	8.47	613.9					
03/13/2012	05:06:48	58	3.0	8.47	618.3					
03/13/2012	05:08:48	27	0.0	8.47	624.4					

Well SG 8509E-21 N SG 8509E-21 N	Field Story Gulch	Job Start Mar/13/2012	Customer Encana	Job Number BTX1-00301
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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	Cement Circulated to Surface?	<input checked="" type="checkbox"/>		Volume
				65 degF	Washed Thru Perfs	<input type="checkbox"/>		To
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost	<input type="checkbox"/>	
Rick Duran			Jordan Moreland			-	<input checked="" type="checkbox"/>	
						-	-	



Service Quality Evaluation

Client:	Encana
Field:	Story Gulch
Rig:	Patterson 306
Well:	SG 8509E-21 N
Service Line:	Cementing
Job Type:	9 5/8 Surface

Service Order #:	
Date:	Mar/13/2012
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%
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Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	Schlumberger:
Client Signature:	Schlumberger Signature: