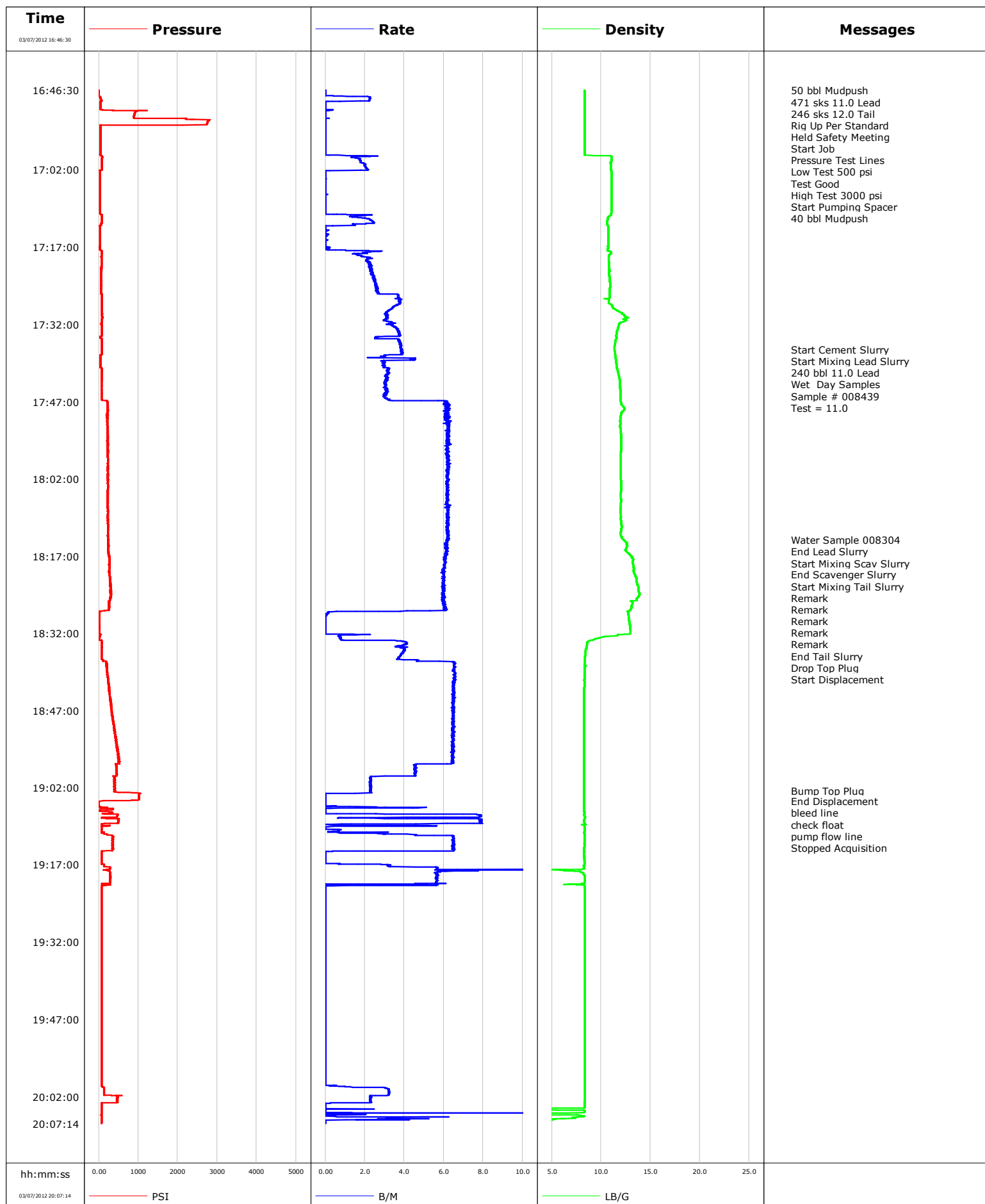


Well SG 8509D-21
Field Story Gulch
Engineer
Country United States

Client Encana
SIR No.
Job Type 9 5/8 Surface
Job Date 03-07-2012

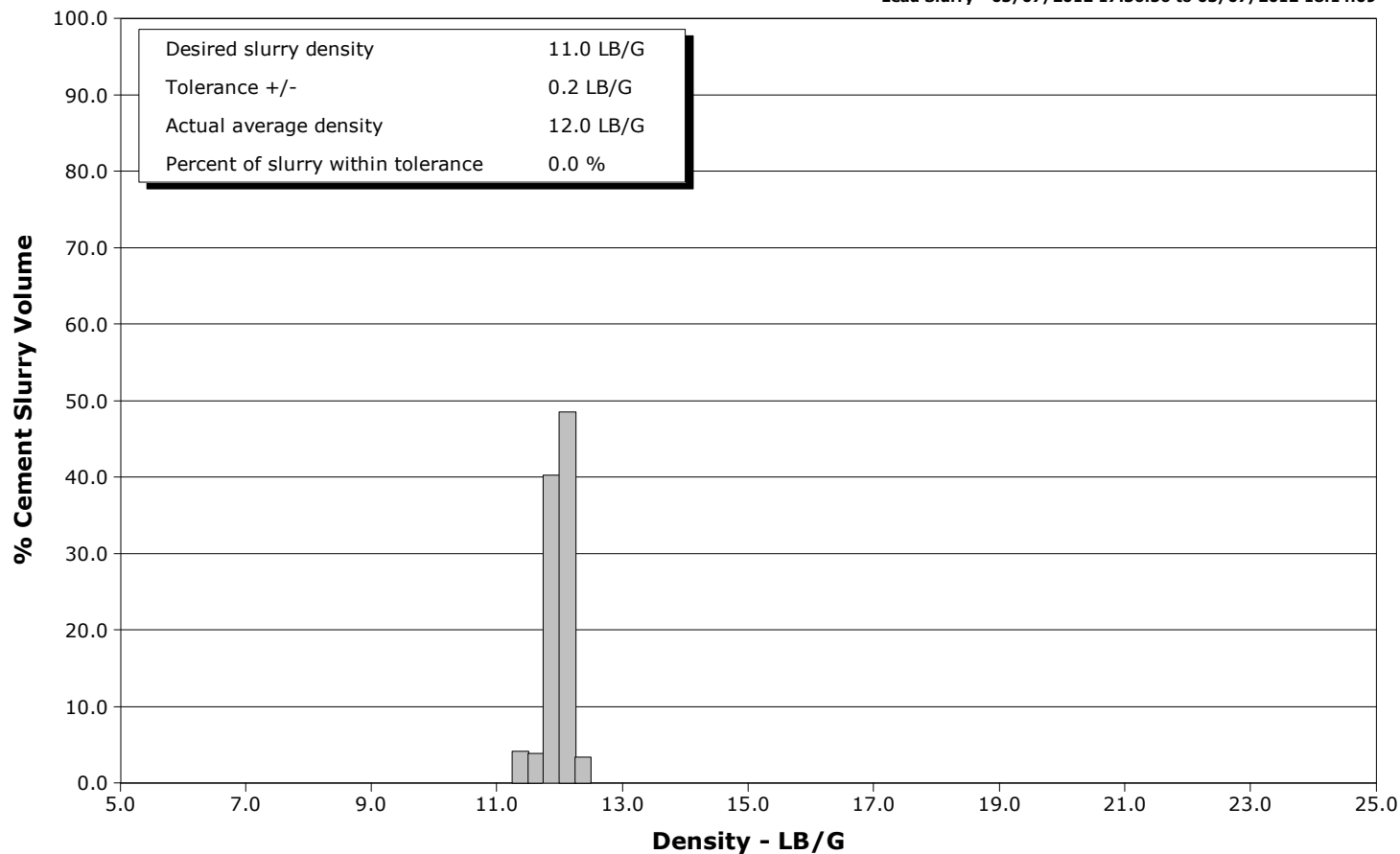


Schlumberger Cementing Qa/Qc Density Report

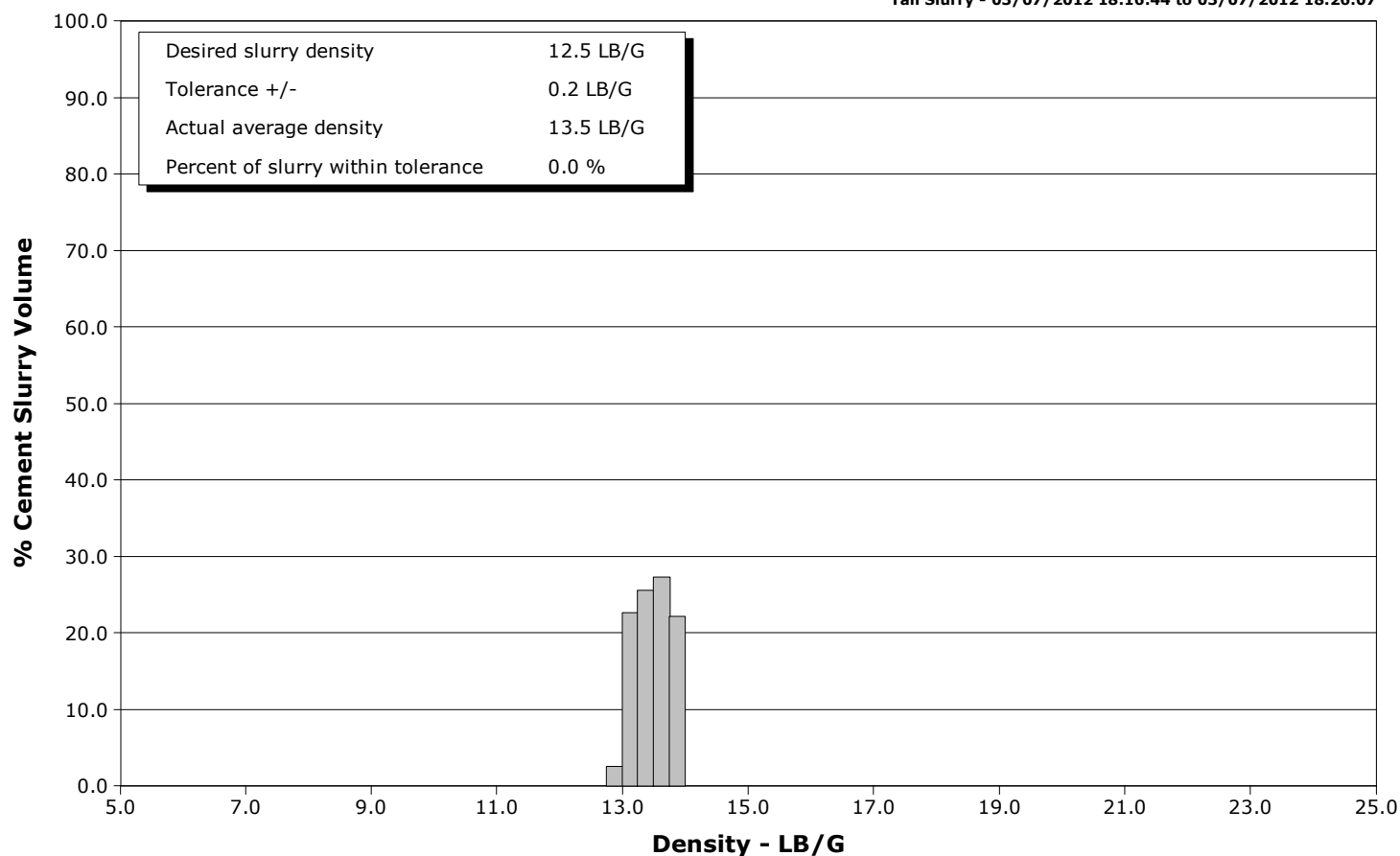
Well SG 8509D-21
Field Story Gulch
Engineer
Country United States

Client Encana
SIR No.
Job Type 9 5/8 Surface
Job Date 03-07-2012

Lead Slurry - 03/07/2012 17:36:56 to 03/07/2012 18:14:09



Tail Slurry - 03/07/2012 18:16:44 to 03/07/2012 18:26:07



Well			Field		Job Start		Customer		Job Number	
SG 8509D-21			Story Gulch		Mar/07/2012		Encana		C0J7-00063	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL	Message		
03/07/2012	16:59:23							Low Test 500 psi		
03/07/2012	16:59:23	86		2.4	11.02		2.6			
03/07/2012	16:59:24							Test Good		
03/07/2012	16:59:24							High Test 3000 psi		
03/07/2012	16:59:24	85		2.2	11.02		2.6			
03/07/2012	16:59:31							Start Pumping Spacer		
03/07/2012	16:59:31	86		1.4	11.06		2.9			
03/07/2012	16:59:32							40 bbl Mudpush		
03/07/2012	16:59:32	86		1.4	11.06		2.9			
03/07/2012	17:00:54	82		2.0	10.99		5.3			
03/07/2012	17:02:54	33		0.0	11.06		7.8			
03/07/2012	17:04:54	34		0.0	11.05		7.8			
03/07/2012	17:06:54	34		0.0	11.04		7.8			
03/07/2012	17:08:54	34		0.0	11.03		7.8			
03/07/2012	17:10:54	82		1.9	10.96		8.3			
03/07/2012	17:12:54	26		0.0	10.72		12.1			
03/07/2012	17:14:54	27		0.0	10.71		12.2			
03/07/2012	17:16:54	28		0.0	10.68		12.2			
03/07/2012	17:18:54	64		1.9	10.78		14.7			
03/07/2012	17:20:54	62		2.2	10.83		19.1			
03/07/2012	17:22:54	60		2.4	10.85		23.8			
03/07/2012	17:24:54	60		2.6	10.88		28.8			
03/07/2012	17:26:54	82		3.8	10.83		34.9			
03/07/2012	17:28:54	80		3.4	11.25		42.3			
03/07/2012	17:30:54	86		3.2	12.49		48.6			
03/07/2012	17:32:54	81		3.7	11.68		55.2			
03/07/2012	17:34:54	80		3.7	11.49		62.2			
03/07/2012	17:36:54							Start Cement Slurry		
03/07/2012	17:36:54	79		3.9	11.36		69.8			
03/07/2012	17:36:56							Start Mixing Lead Slurry		
03/07/2012	17:36:56							240 bbl 11.0 Lead		
03/07/2012	17:36:56	79		3.9	11.36		69.9			
03/07/2012	17:36:57							Wet Day Samples		
03/07/2012	17:36:57							Sample # 008439		
03/07/2012	17:36:57							Test = 11.0		
03/07/2012	17:36:57	78		3.9	11.36		70.0			
03/07/2012	17:38:54	44		4.4	11.48		77.2			
03/07/2012	17:40:54	79		3.1	11.65		83.3			
03/07/2012	17:42:54	74		3.1	11.87		89.6			
03/07/2012	17:44:54	74		3.1	11.92		95.7			
03/07/2012	17:46:54	222		6.2	11.97		102.1			
03/07/2012	17:48:54	215		6.2	12.16		114.5			
03/07/2012	17:50:54	210		6.2	11.92		126.8			
03/07/2012	17:52:54	229		6.2	12.00		139.2			
03/07/2012	17:54:54	220		6.2	12.02		151.7			
03/07/2012	17:56:54	231		6.2	12.01		164.0			
03/07/2012	17:58:54	224		6.2	11.99		176.4			
03/07/2012	18:00:54	232		6.2	11.98		188.9			
03/07/2012	18:02:54	232		6.2	12.02		201.3			
03/07/2012	18:04:54	230		6.2	12.01		213.6			
03/07/2012	18:06:54	225		6.2	11.97		226.0			
03/07/2012	18:08:54	223		6.2	11.99		238.4			
03/07/2012	18:10:54	225		6.3	12.06		250.8			
03/07/2012	18:12:54	225		6.2	12.00		263.2			

Well			Field		Job Start	Customer	Job Number
SG 8509D-21			Story Gulch		Mar/07/2012	Encana	C0J7-00063
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
03/07/2012	18:13:49	233	6.2	12.25	268.9		
03/07/2012	18:14:09					End Lead Slurry	
03/07/2012	18:14:09	234	6.2	12.40	270.9		
03/07/2012	18:14:11					Start Mixing Scav Slurry	
03/07/2012	18:14:11	244	6.2	12.42	271.1		
03/07/2012	18:14:54	249	6.2	12.64	275.5		
03/07/2012	18:16:43					End Scavenger Slurry	
03/07/2012	18:16:43	255	6.2	12.88	286.7		
03/07/2012	18:16:44					Start Mixing Tail Slurry	
03/07/2012	18:16:44	255	6.2	12.89	286.8		
03/07/2012	18:16:45					Remark	
03/07/2012	18:16:45					Remark	
03/07/2012	18:16:45					Remark	
03/07/2012	18:16:45					Remark	
03/07/2012	18:16:45	256	6.2	12.89	286.9		
03/07/2012	18:16:46					Remark	
03/07/2012	18:16:46	251	6.1	12.89	287.0		
03/07/2012	18:16:54	256	6.1	12.96	287.8		
03/07/2012	18:18:54	259	6.0	13.26	299.9		
03/07/2012	18:20:54	274	6.0	13.46	311.9		
03/07/2012	18:22:54	302	5.9	13.75	323.9		
03/07/2012	18:24:54	303	6.0	13.78	335.9		
03/07/2012	18:26:07					End Tail Slurry	
03/07/2012	18:26:07	264	6.0	13.17	343.1		
03/07/2012	18:26:54	261	6.1	13.11	347.9		
03/07/2012	18:27:41					Drop Top Plug	
03/07/2012	18:27:41	144	4.2	12.81	352.5		
03/07/2012	18:27:42					Start Displacement	
03/07/2012	18:27:42	129	4.1	12.73	352.6		
03/07/2012	18:28:54	9	0.0	12.78	352.9		
03/07/2012	18:30:54	12	0.0	12.92	352.9		
03/07/2012	18:32:54	18	0.8	9.82	353.6		
03/07/2012	18:34:54	72	4.0	8.49	359.9		
03/07/2012	18:36:54	66	3.7	8.35	367.7		
03/07/2012	18:38:54	204	6.5	8.31	379.4		
03/07/2012	18:40:54	232	6.5	8.30	392.5		
03/07/2012	18:42:54	265	6.5	8.28	405.5		
03/07/2012	18:44:54	298	6.5	8.28	418.5		
03/07/2012	18:46:54	316	6.5	8.28	431.4		
03/07/2012	18:48:54	367	6.5	8.28	444.4		
03/07/2012	18:50:54	396	6.5	8.28	457.3		
03/07/2012	18:52:54	429	6.5	8.28	470.3		
03/07/2012	18:54:54	480	6.5	8.28	483.2		
03/07/2012	18:56:54	517	6.5	8.28	496.1		
03/07/2012	18:58:54	455	4.5	8.28	506.1		
03/07/2012	19:00:54	389	2.3	8.28	512.7		
03/07/2012	19:02:36					Bump Top Plug	
03/07/2012	19:02:36	408	2.3	8.28	516.6		
03/07/2012	19:02:54	493	2.3	8.28	517.3		
03/07/2012	19:04:38					End Displacement	
03/07/2012	19:04:38	-1	0.0	8.28	517.8		
03/07/2012	19:04:44					bleed line	
03/07/2012	19:04:44	-4	0.0	8.28	517.8		
03/07/2012	19:04:45					check float	

Well			Field		Job Start	Customer		Job Number
SG 8509D-21			Story Gulch		Mar/07/2012	Encana		C0J7-00063
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
03/07/2012	19:04:54	-3	0.0	8.28	517.8			
03/07/2012	19:06:54	350	0.0	8.29	518.7			
03/07/2012	19:08:54	488	7.9	8.32	530.9			
03/07/2012	19:09:49					pump flow line		
03/07/2012	19:09:49	68	0.0	8.31	533.1			
03/07/2012	19:10:54	127	2.7	8.30	533.8			
03/07/2012	19:12:54	340	6.5	8.29	545.8			
03/07/2012	19:14:54	66	0.0	8.28	555.0			
03/07/2012	19:16:54	127	2.8	8.29	555.2			
03/07/2012	19:18:54	292	5.7	8.24	565.9			
03/07/2012	19:20:54	290	5.5	8.14	576.3			
03/07/2012	19:22:54	64	0.0	8.34	577.0			
03/07/2012	19:24:54	65	0.0	8.34	577.0			
03/07/2012	19:26:54	65	0.0	8.34	577.0			
03/07/2012	19:28:54	65	0.0	8.34	577.0			
03/07/2012	19:30:54	65	0.0	8.34	577.0			
03/07/2012	19:32:54	65	0.0	8.34	577.0			
03/07/2012	19:34:54	64	0.0	8.34	577.0			
03/07/2012	19:36:54	64	0.0	8.34	577.0			
03/07/2012	19:38:54	64	0.0	8.34	577.0			
03/07/2012	19:40:54	64	0.0	8.34	577.0			
03/07/2012	19:42:54	64	0.0	8.34	577.0			
03/07/2012	19:44:54	64	0.0	8.34	577.0			
03/07/2012	19:46:54	64	0.0	8.34	577.0			
03/07/2012	19:48:54	65	0.0	8.34	577.0			
03/07/2012	19:50:54	65	0.0	8.34	577.0			
03/07/2012	19:52:54	64	0.0	8.34	577.0			
03/07/2012	19:54:54	64	0.0	8.34	577.0			
03/07/2012	19:56:54	63	0.0	8.34	577.0			
03/07/2012	19:58:54	64	0.0	8.34	577.0			
03/07/2012	20:00:54	129	3.2	8.34	579.5			
03/07/2012	20:02:54	455	2.3	8.33	584.9			
03/07/2012	20:04:54	63	0.0	8.32	585.7			
03/07/2012	20:06:54	62	0.0	-0.02	588.4			

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?	Volume	
					65 degF	Washed Thru Perfs	To	
Customer or Authorized Representative				Schlumberger Supervisor		Circulation Lost	Job Completed	
Garth Gramlich				Jordan Moreland		-	-	



Service Quality Evaluation

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

Service Order #:	
Date:	Mar/07/2012
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: