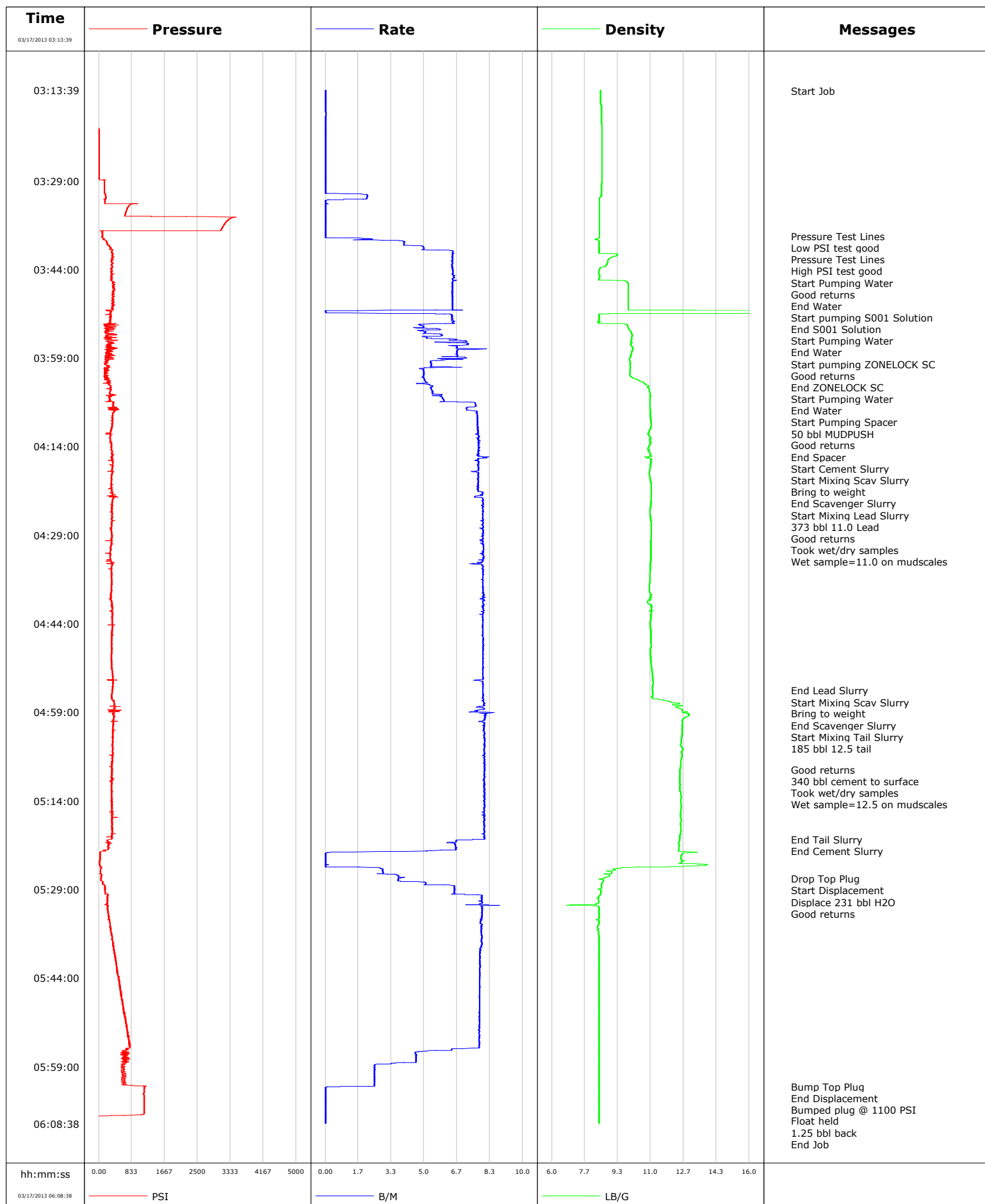


Well SGU 8512E-36
Field Story Gulch
Engineer Matt Fair/Ted Hansen
Country United States

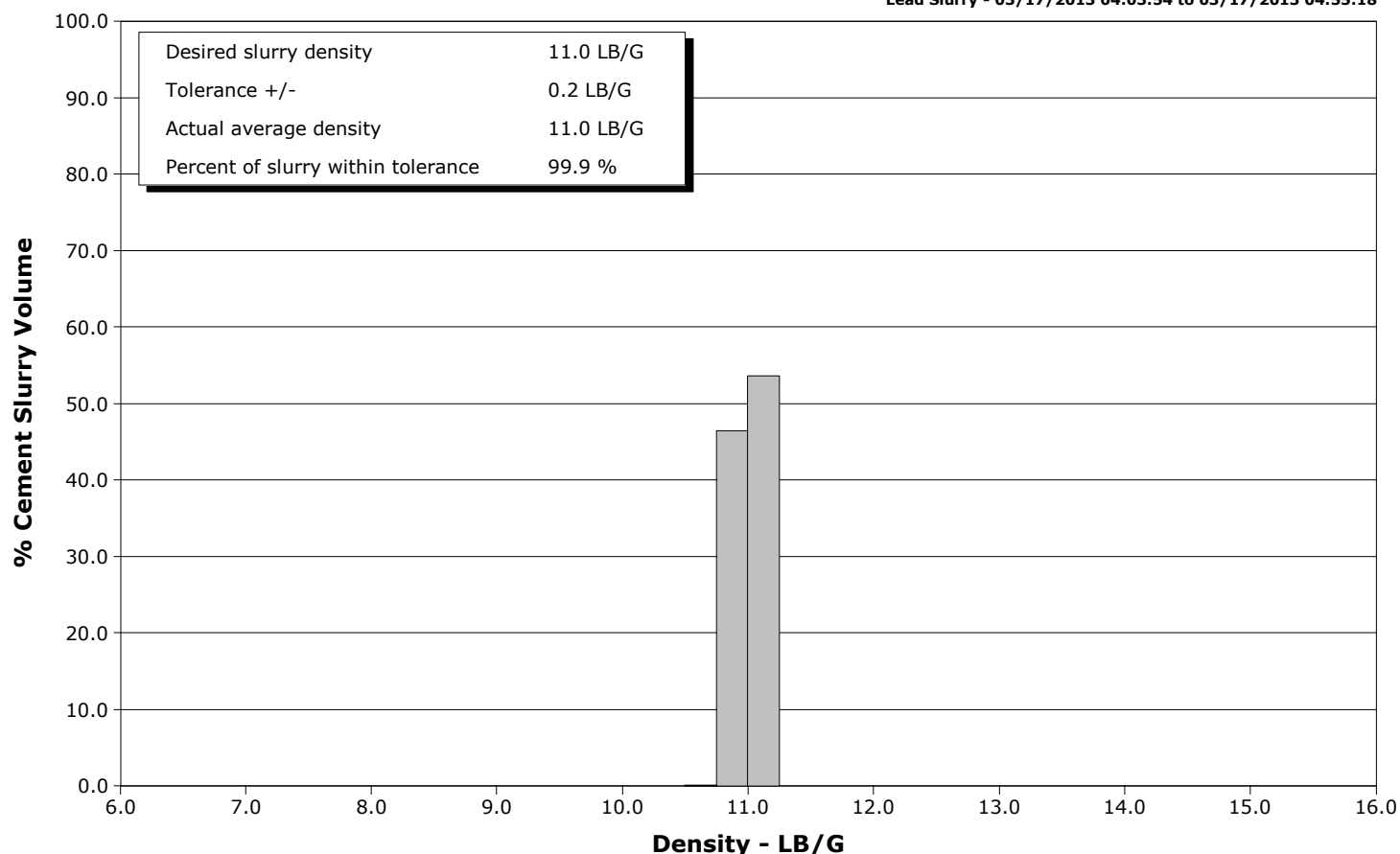
Client Encana
SIR No. C610-01181
Job Type 9 5/8" Surface
Job Date 03-17-2013



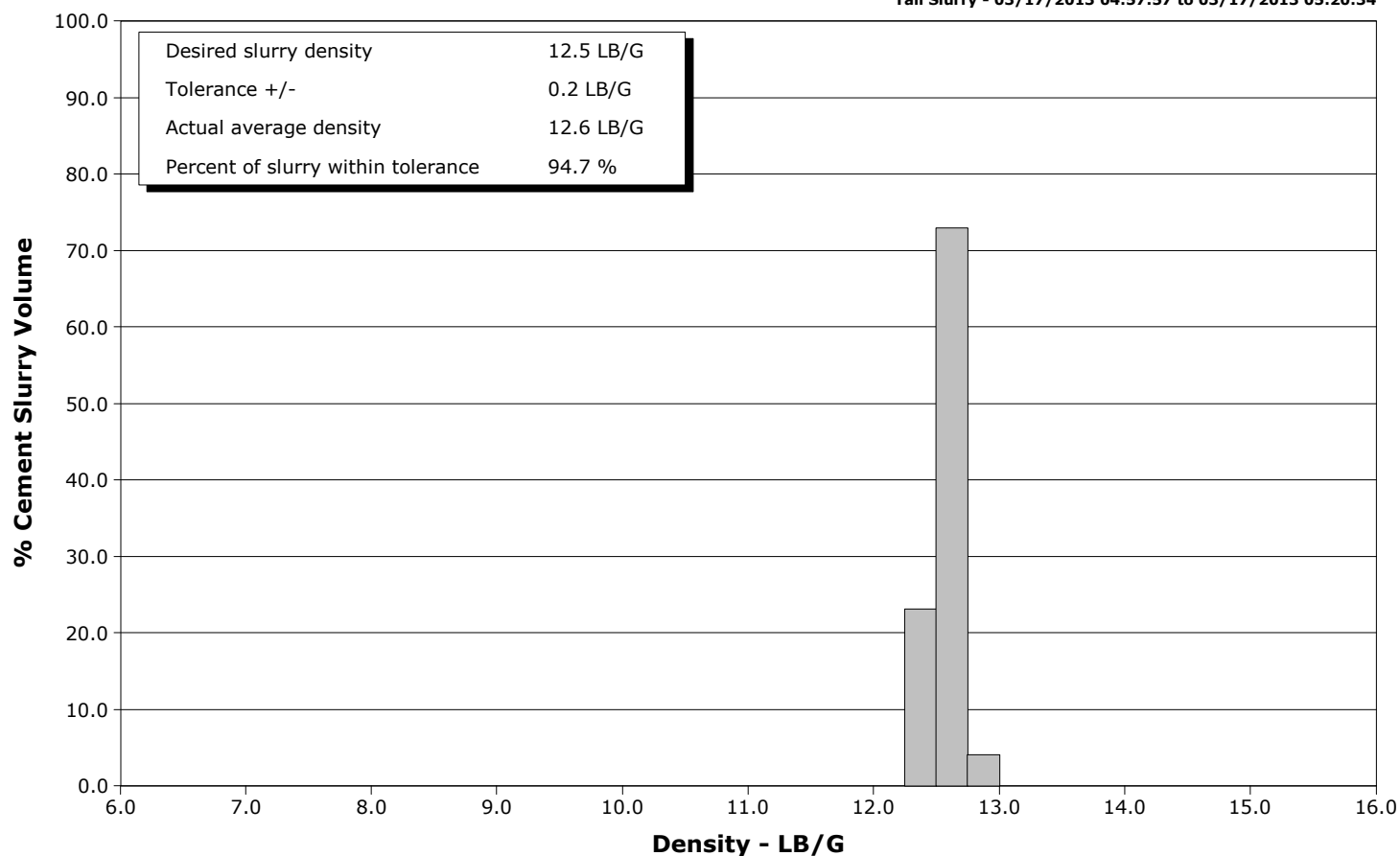
Well SGU 8512E-36
Field Story Gulch
Engineer Matt Fair/Ted Hansen
Country United States

Client Encana
SIR No. C610-01181
Job Type 9 5/8" Surface
Job Date 03-17-2013

Lead Slurry - 03/17/2013 04:03:54 to 03/17/2013 04:55:18



Tail Slurry - 03/17/2013 04:57:57 to 03/17/2013 05:20:34



					Customer Encana			Job Number C610-01181		
Well SGU 8512E-36			Location (legal)			Schlumberger Location		Job Start Mar/17/2013		
Field Story Gulch		Formation Name/Type Shale		Deviation deg		Bit Size 14.8 in		Well MD 3033.0 ft		
County Garfield		State/Province Colorado		BHP psi		BHST 120 degF		BHCT 96 degF		
Well Master 0631304010		API/UWI								Pore Press. Gradient lb/gal
Rig Name Patterson 326		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		3033.0		9.6		
						36.0		K55		
						0.0		8RD		
Drilling Fluid Type Bentonite		Max. Density 9.00 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		
						ft		ft		
						Treat Down Casing		Displacement 231.0 bbl		
						Packer Type		Packer Depth ft		
						Tubing Vol. bbl		Casing Vol. 233.0 bbl		
						Annular Vol. 385.0 bbl		Openhole Vol. 637.0 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 1501 psi				Shoe Type Float		Squeeze Type				
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 3033.0 ft		Tool Type				
No. Centralizers		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 Mar/17/2013 01:00		Arrived on Location Mar/17/2013 01:00		Leave Location Mar/17/2013 08:00		Collar Type Float		Tail Pipe Depth ft		
						Collar Depth 2987.0 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			
03/17/2013	03:13:39	8.46	-2	0.0	0.0	0.0	Started Acquisition			
03/17/2013	03:13:44	8.46	-2	0.0	0.0	0.0	Start Job			
03/17/2013	03:16:09	8.49	-5	0.0	0.0	0.0				
03/17/2013	03:18:39	8.51	-3	0.0	0.0	0.0				
03/17/2013	03:21:09	8.53	2	0.0	0.0	0.0				
03/17/2013	03:23:39	8.53	5	0.0	0.0	0.0				
03/17/2013	03:26:09	8.53	7	0.0	0.0	0.0				
03/17/2013	03:28:39	8.53	7	0.0	0.0	0.0				
03/17/2013	03:31:09	8.52	136	0.1	0.0	0.0				
03/17/2013	03:33:39	8.41	724	0.0	2.1	2.1				
03/17/2013	03:36:09	8.41	3205	0.0	2.1	2.1				
03/17/2013	03:38:21	8.41	86	0.0	2.1	2.1	Pressure Test Lines			
03/17/2013	03:38:22	8.41	86	0.0	2.1	2.1	Low PSI test good			
03/17/2013	03:38:23	8.41	86	0.0	0.0	2.1	Pressure Test Lines			
03/17/2013	03:38:25	8.41	86	0.0	0.0	2.1	High PSI test good			
03/17/2013	03:38:30	8.41	86	0.0	0.0	2.1	Start Pumping Water			
03/17/2013	03:38:39	8.41	85	0.1	0.0	2.1				
03/17/2013	03:40:58	8.38	339	6.5	9.4	11.5	Good returns			
03/17/2013	03:41:09	8.39	337	6.5	10.6	12.7				
03/17/2013	03:41:19	8.59	352	6.5	0.9	13.8	End Water			
03/17/2013	03:41:21	9.05	334	6.5	1.1	14.0	Start pumping S001 Solution			

Well SGU 8512E-36			Field Story Gulch		Job Start Mar/17/2013		Customer Encana	Job Number C610-01181
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	
03/17/2013	03:44:20	8.38	330	6.5	0.2	33.2	End S001 Solution	
03/17/2013	03:44:22	8.37	316	6.5	0.4	33.4	Start Pumping Water	
03/17/2013	03:45:46	8.38	315	6.5	9.5	42.4	End Water	
03/17/2013	03:45:47	8.38	309	6.5	9.6	42.5	Start pumping ZONELOCK SC	
03/17/2013	03:46:09	9.83	351	6.4	1.6	44.9		
03/17/2013	03:48:39	9.85	363	6.4	17.7	61.0		
03/17/2013	03:50:20	9.85	349	6.4	28.5	71.8	Good returns	
03/17/2013	03:50:58	25.00	329	1.6	32.5	75.9	End ZONELOCK SC	
03/17/2013	03:51:03	25.00	208	0.0	32.6	75.9	Start Pumping Water	
03/17/2013	03:51:09	25.00	333	0.0	32.6	75.9		
03/17/2013	03:53:13	9.50	282	6.1	0.2	87.0	End Water	
03/17/2013	03:53:16	9.72	130	5.0	0.5	87.3	Start Pumping Spacer	
03/17/2013	03:53:18	9.76	127	4.8	0.7	87.5	50 bbl MUDPUSH	
03/17/2013	03:53:39	9.84	433	5.0	2.4	89.2		
03/17/2013	03:54:23	9.96	261	4.9	6.2	93.0	Good returns	
03/17/2013	03:56:09	10.03	187	7.1	16.1	102.9		
03/17/2013	03:58:39	9.99	361	6.7	33.2	119.9		
03/17/2013	04:01:09	9.97	146	5.0	47.5	134.2		
03/17/2013	04:02:30	10.15	213	5.0	54.2	140.9	End Spacer	
03/17/2013	04:02:34	10.24	212	5.0	54.5	141.3	Start Cement Slurry	
03/17/2013	04:02:35	10.28	245	5.0	54.6	141.4	Start Mixing Scav Slurry	
03/17/2013	04:03:39	10.79	288	5.3	60.0	146.8		
03/17/2013	04:03:52	10.90	311	5.4	0.2	147.9	End Scavenger Slurry	
03/17/2013	04:03:54	10.84	296	5.4	0.4	148.1	Start Mixing Lead Slurry	
03/17/2013	04:03:55	10.84	310	5.4	0.5	148.2	373 bbl 11.0 Lead	
03/17/2013	04:06:09	10.96	301	6.0	13.0	160.7		
03/17/2013	04:06:30	10.96	382	7.4	15.1	162.8	Good returns	
03/17/2013	04:07:47	10.98	249	7.2	24.7	172.4	Took wet/dry samples	
03/17/2013	04:07:57	10.98	410	7.5	25.9	173.6	Wet sample=11.0 on mudscales	
03/17/2013	04:08:39	10.99	345	7.7	31.2	179.0		
03/17/2013	04:11:09	10.96	317	7.7	50.5	198.2		
03/17/2013	04:13:39	10.97	321	7.8	69.9	217.6		
03/17/2013	04:16:09	11.04	351	7.8	89.3	237.1		
03/17/2013	04:18:39	10.94	337	7.8	108.7	256.4		
03/17/2013	04:21:09	11.04	245	7.7	128.0	275.8		
03/17/2013	04:23:39	11.01	336	8.0	147.7	295.4		
03/17/2013	04:26:09	11.00	326	8.0	167.6	315.4		
03/17/2013	04:28:39	11.03	324	8.0	187.6	335.3		
03/17/2013	04:31:09	11.02	299	8.0	207.5	355.3		
03/17/2013	04:33:39	11.00	330	7.7	227.5	375.2		
03/17/2013	04:36:09	10.96	320	8.0	247.3	395.0		
03/17/2013	04:38:39	10.95	325	8.0	267.3	415.0		
03/17/2013	04:41:09	11.03	348	8.0	287.3	435.0		
03/17/2013	04:43:39	11.00	335	8.0	307.2	454.9		
03/17/2013	04:46:09	11.00	348	8.0	327.1	474.9		
03/17/2013	04:48:39	10.99	332	8.0	347.1	494.8		
03/17/2013	04:51:09	11.04	333	8.0	367.1	514.8		
03/17/2013	04:53:39	11.12	373	7.6	387.0	534.7		
03/17/2013	04:55:18	11.10	353	8.0	400.1	547.9	End Lead Slurry	
03/17/2013	04:56:09	11.10	329	8.0	406.9	554.6		
03/17/2013	04:56:19	11.10	319	8.0	408.2	556.0	Start Mixing Scav Slurry	
03/17/2013	04:57:26	12.17	383	8.0	417.2	564.9	Bring to weight	
03/17/2013	04:57:54	12.62	394	8.0	2.5	568.7	End Scavenger Slurry	
03/17/2013	04:57:57	12.54	393	8.0	2.9	569.1	Start Mixing Tail Slurry	

Well			Field		Job Start		Customer		Job Number
SGU 8512E-36			Story Gulch		Mar/17/2013		Encana		C610-01181
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		
03/17/2013	04:58:39	12.60	561	7.7	8.5	574.6			
03/17/2013	05:01:09	12.60	374	8.1	28.5	594.6			
03/17/2013	05:03:39	12.55	357	8.1	48.6	614.7			
03/17/2013	05:06:09	12.59	350	8.0	68.7	634.9			
03/17/2013	05:08:39	12.49	333	8.1	88.9	655.0			
03/17/2013	05:08:40	12.49	333	8.1	89.0	655.1	Good returns		
03/17/2013	05:08:47	12.49	335	8.1	90.0	656.1	340 bbl cement to surface		
03/17/2013	05:10:22	12.48	359	8.0	102.7	668.8	Took wet/dry samples		
03/17/2013	05:10:30	12.49	375	8.0	103.8	669.9	Wet sample=12.5 on mudscales		
03/17/2013	05:11:09	12.49	344	8.1	109.0	675.1			
03/17/2013	05:13:39	12.54	334	8.1	129.1	695.3			
03/17/2013	05:16:09	12.52	349	8.1	149.3	715.4			
03/17/2013	05:18:39	12.54	347	8.1	169.4	735.5			
03/17/2013	05:20:34	12.47	262	7.5	184.8	750.9	End Tail Slurry		
03/17/2013	05:20:35	12.47	255	7.5	185.0	751.1	End Cement Slurry		
03/17/2013	05:21:09	12.44	223	6.5	188.7	754.8			
03/17/2013	05:23:39	12.54	27	0.0	0.0	764.3			
03/17/2013	05:26:09	9.04	39	2.9	2.6	766.8			
03/17/2013	05:27:09	8.61	60	3.7	6.0	770.3	Drop Top Plug		
03/17/2013	05:27:10	8.61	60	3.7	6.1	770.4	Start Displacement		
03/17/2013	05:27:11	8.56	55	3.7	6.2	770.4	Displace 231 bbl H2O		
03/17/2013	05:28:39	8.51	150	6.5	13.4	777.7			
03/17/2013	05:30:41	8.34	210	7.9	27.9	792.1	Good returns		
03/17/2013	05:31:09	8.35	218	7.9	31.5	795.8			
03/17/2013	05:33:39	8.39	250	7.9	51.4	815.6			
03/17/2013	05:36:09	8.36	302	7.9	71.1	835.4			
03/17/2013	05:38:39	8.39	383	7.9	90.9	855.1			
03/17/2013	05:41:09	8.39	423	7.8	110.5	874.7			
03/17/2013	05:43:39	8.39	484	7.8	130.0	894.3			
03/17/2013	05:46:09	8.39	532	7.8	149.5	913.8			
03/17/2013	05:48:39	8.39	624	7.8	169.1	933.3			
03/17/2013	05:51:09	8.39	694	7.8	188.6	952.8			
03/17/2013	05:53:39	8.39	746	7.8	208.0	972.3			
03/17/2013	05:56:09	8.39	745	6.4	227.2	991.5			
03/17/2013	05:58:39	8.39	661	2.5	238.7	1003.0			
03/17/2013	06:01:09	8.39	585	2.5	244.9	1009.2			
03/17/2013	06:02:22	8.39	1195	2.2	248.0	1012.2	Bump Top Plug		
03/17/2013	06:02:23	8.39	1195	1.5	248.0	1012.3	End Displacement		
03/17/2013	06:02:24	8.39	1205	0.8	248.0	1012.3	Bumped plug @ 1100 PSI		
03/17/2013	06:03:39	8.40	1140	0.0	248.1	1012.3			
03/17/2013	06:06:09	8.40	1146	0.0	248.1	1012.3			
03/17/2013	06:08:10	8.40	-8	0.0	248.1	1012.3	Float held		
03/17/2013	06:08:11	8.40	-8	0.0	248.1	1012.3	1.25 bbl back		

Well SGU 8512E-36	Field Story Gulch	Job Start Mar/17/2013	Customer Encana	Job Number C610-01181
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 7.0	N2	Mud	Maximum Rate 8.8		Total Slurry 558.0	Mud 0.0	Spacer 50.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3470	Final -8	Average 394	Bump Plug to 1200	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 558.0 bbl		Displacement 230.2 bbl	Mix Water Temp 63 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 340.0 bbl	
					Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative James Carter			Schlumberger Supervisor Matt Fair/Ted Hansen			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
					-		-	



Service Quality Evaluation

Client:	Encana
Field:	Story Gulch
Rig:	Patterson 326
Well:	SGU 8512E-36
Service Line:	Cementing
Job Type:	9 5/8" Surface

Service Order #:	
Date:	Mar/17/2013
Operating Time (hh:mm):	00:00
Client Rep:	James Carter
Schlumberger Engineer:	Matt Fair/Ted Hansen
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 - 010340, 009514 Lead - 010255, 010253 Tail - 010256, 010254
Client Signature:	Schlumberger Signature: