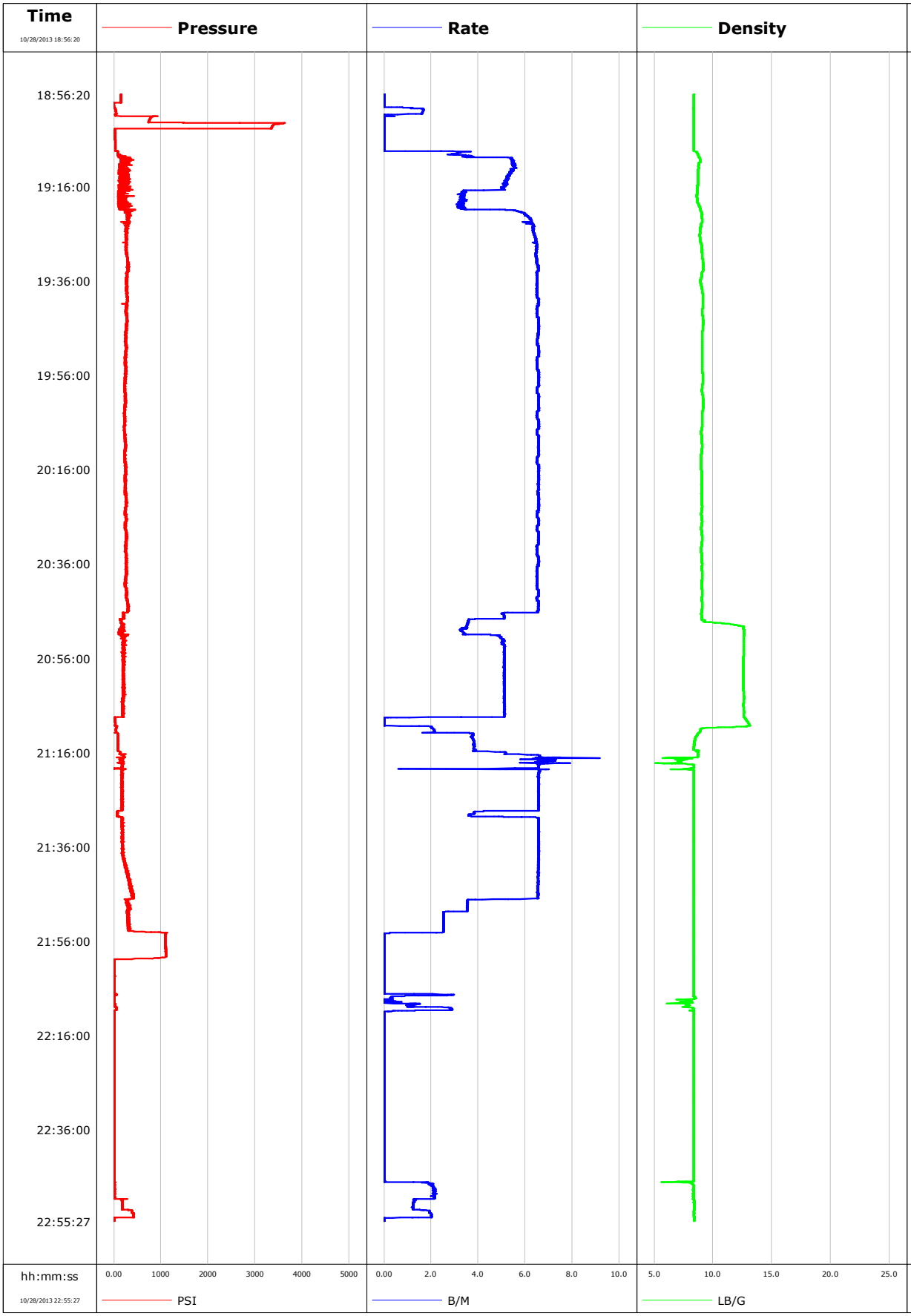
Schlumberger Cementing Job Report

Well	SGU 8514E-34	**Client**	Encana
Field	Story Gulch	**SIR No.**	COU5-00054
Engineer	Jordan Moreland / Stacy Terry	**Job Type**	9 5/8 Surface
Country	United States	**Job Date**	10-28-2013



Cementing Service Report

Customer	Job Number
Encana	COU5-00054

Well	Location (legal)	Schlumberger Location	Job Start
SGU 8514E-34	E34	GCO	Oct/28/2013

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Story Gulch	Shale		14.8 in		

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Garfield	Colorado		120 degF	92 degF	

Well Master	API/UWI
0631501105	

Rig Name	Drilled For	Service Via
Patterson 326	Gas	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
	8.90 lb/gal	

Service Line	Job Type
Cementing	9 5/8 Surface

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
3000 psi		Single Cement head

Service Instructions

Rate And Density Checked
50 bbl MUDPUSH EXPRESS
893 sks 9.0 LiteCRETE
255 sks 12.5 G Tail
Displace 228 bbl Fresh Water

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
2992.0	9.630	36.0	J55	8RD
0.0	0.000	0.0		

Tubing/Drill Pipe

Depth,	Size,	Weight,	Grade	Thread

Perforations/Open Hole

Top,	Bottom,		No. of Shots	Total Interval
				Diameter

Treat Down	Displacement	Packer Type	Packer Depth
Casing	228.0 bbl		

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
	231.0 bbl	380.0 bbl	629.0 bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement
X	X

Lift Pressure	1480 psi

Pipe Rotated	Pipe Reciprocated
☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type	Single

Job Scheduled For	Arrived on Location	Leave Location
Oct/28/2013	Oct/28/2013	Oct/28/2013

Casing Tools		Squeeze Job	
Shoe Type	Guide	Squeeze Type	
Shoe Depth	2992.0 ft	Tool Type	
Stage Tool Type		Tool Depth	
Stage Tool Depth		Tail Pipe Size	
Collar Type	Float	Tail Pipe Depth	
Collar Depth	2946.0 ft	Sqz. Total Vol.	

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
10/28/2013	17:44:39					Started Acquisition
10/28/2013	18:56:20	145	0.0	8.38	0.0	
10/28/2013	18:56:21					50 bbl MUDPUSH EXPRESS
10/28/2013	18:56:21					893 sks 9.0 LiteCRETE
10/28/2013	18:56:21					255 sks 12.5 Tail
10/28/2013	18:56:21					Displace 228 bbl Fresh Water
10/28/2013	18:56:21					Rig Up Per Standard
10/28/2013	18:56:21	146	0.0	8.38	0.0	
10/28/2013	18:56:22					Held Safety Meeting
10/28/2013	18:56:22	144	0.0	8.38	0.0	
10/28/2013	18:56:23					Start Job
10/28/2013	18:56:23	144	0.0	8.38	0.0	
10/28/2013	18:56:24					Pressure Test Lines
10/28/2013	18:56:24	145	0.0	8.38	0.0	
10/28/2013	18:56:25					Low Test 500 psi
10/28/2013	18:56:25	145	0.0	8.38	0.0	
10/28/2013	18:56:26					Test Good
10/28/2013	18:56:26					High Test 3000 psi
10/28/2013	18:56:26					Test Good
10/28/2013	18:56:26	145	0.0	8.38	0.0	
10/28/2013	18:57:09	145	0.0	8.38	0.0	

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SGU 8514E-34	Story Gulch	Oct/28/2013	Encana	COU5-00054

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
10/28/2013	19:02:09	738	0.0	8.37	2.4	
10/28/2013	19:04:39	29	0.0	8.37	2.4	
10/28/2013	19:07:09	29	0.0	8.37	2.4	
10/28/2013	19:08:57					Start Pumping Spacer
10/28/2013	19:08:57	76	3.1	8.66	4.1	
10/28/2013	19:08:58					50 bbl MUDPUSH EXPRESS
10/28/2013	19:08:58					10 lbs/bbl D097
10/28/2013	19:08:58	76	3.0	8.66	4.1	
10/28/2013	19:08:59					Good Returns
10/28/2013	19:08:59	76	3.0	8.66	4.2	
10/28/2013	19:09:39	182	3.5	8.80	6.4	
10/28/2013	19:12:09	121	5.5	8.76	19.9	
10/28/2013	19:14:39	225	5.2	8.68	33.2	
10/28/2013	19:17:09	169	3.4	8.63	45.3	
10/28/2013	19:19:39	99	3.3	8.75	53.6	
10/28/2013	19:21:20					End Spacer
10/28/2013	19:21:20	247	5.8	9.00	60.3	
10/28/2013	19:21:23					Start Cement Slurry
10/28/2013	19:21:23	346	5.8	9.00	60.6	
10/28/2013	19:21:24					Start Mixing Lead Slurry
10/28/2013	19:21:24	288	5.9	9.00	60.7	
10/28/2013	19:21:25					Wet Dry Samples
10/28/2013	19:21:25					Test = 9.0 ppg
10/28/2013	19:21:25					Good Returns
10/28/2013	19:21:25	288	5.9	9.00	60.8	
10/28/2013	19:21:26					465 bbl 9.0 Lead
10/28/2013	19:21:26					2 lbs/bbl D095
10/28/2013	19:21:26					Sample # 007240/ 007363
10/28/2013	19:21:26					Sample # 007369/ 007366
10/28/2013	19:21:26	303	5.9	9.00	60.9	
10/28/2013	19:21:36					Water Sample # 007410
10/28/2013	19:21:36	316	6.0	9.03	61.9	
10/28/2013	19:22:09	280	6.0	9.01	65.2	
10/28/2013	19:24:39	256	6.3	8.91	80.7	
10/28/2013	19:27:09	255	6.4	8.89	96.7	
10/28/2013	19:29:39	260	6.5	9.05	112.9	
10/28/2013	19:32:09	288	6.5	9.14	129.0	
10/28/2013	19:34:39	268	6.5	9.03	145.3	
10/28/2013	19:37:09	272	6.5	9.00	161.5	
10/28/2013	19:39:39	281	6.5	9.12	177.8	
10/28/2013	19:42:09	270	6.5	9.09	194.1	
10/28/2013	19:44:39	287	6.6	9.15	210.4	
10/28/2013	19:47:09	255	6.5	9.09	226.8	
10/28/2013	19:49:39	249	6.5	9.07	243.1	
10/28/2013	19:52:09	235	6.5	9.07	259.5	
10/28/2013	19:54:39	246	6.5	9.08	275.7	
10/28/2013	19:57:09	232	6.6	9.10	292.1	
10/28/2013	19:59:39	237	6.5	9.06	308.5	
10/28/2013	20:02:09	237	6.5	9.17	324.8	
10/28/2013	20:04:39	226	6.5	9.05	341.2	
10/28/2013	20:07:09	219	6.5	9.04	357.6	
10/28/2013	20:09:39	233	6.6	9.04	373.9	
10/28/2013	20:12:09	227	6.6	9.02	390.3	
10/28/2013	20:14:39	234	6.5	8.97	406.6	

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Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
10/28/2013	20:19:39	244	6.6	9.00	439.4	
10/28/2013	20:22:09	256	6.6	9.02	455.7	
10/28/2013	20:24:39	244	6.6	9.03	472.1	
10/28/2013	20:27:09	237	6.6	9.05	488.5	
10/28/2013	20:29:39	254	6.6	9.04	504.8	
10/28/2013	20:32:09	243	6.5	9.01	521.1	
10/28/2013	20:34:39	259	6.6	9.03	537.4	
10/28/2013	20:37:09	252	6.5	9.05	553.7	
10/28/2013	20:39:39	255	6.5	9.05	570.0	
10/28/2013	20:42:09	272	6.6	9.08	586.2	
10/28/2013	20:44:39	294	6.6	9.06	602.6	
10/28/2013	20:46:06					End Lead Slurry
10/28/2013	20:46:06	293	6.5	9.03	612.0	
10/28/2013	20:47:09	216	5.1	9.01	617.7	
10/28/2013	20:49:39	191	3.5	12.59	627.4	
10/28/2013	20:50:07					Start Mixing Tail Slurry
10/28/2013	20:50:07	136	3.3	12.64	629.0	
10/28/2013	20:50:37					Wet b Dry Sample
10/28/2013	20:50:37					Test = 12.5 ppg
10/28/2013	20:50:37					Good Returns
10/28/2013	20:50:37					94 bbl 12.5 Tail
10/28/2013	20:50:37	191	3.4	12.66	630.7	
10/28/2013	20:50:38					Sample # 007367
10/28/2013	20:50:38	177	3.4	12.65	630.7	
10/28/2013	20:52:09	209	5.1	12.60	637.6	
10/28/2013	20:52:19					2 lbs/bbl D095
10/28/2013	20:52:19	198	5.1	12.61	638.4	
10/28/2013	20:54:39	204	5.1	12.59	650.3	
10/28/2013	20:57:09	215	5.1	12.56	663.1	
10/28/2013	20:59:39	201	5.1	12.56	675.8	
10/28/2013	21:00:00					End Tail Slurry
10/28/2013	21:00:00	188	5.1	12.55	677.6	
10/28/2013	21:01:00					End Cement Slurry
10/28/2013	21:01:00	208	5.1	12.55	682.7	
10/28/2013	21:02:09	198	5.1	12.55	688.6	
10/28/2013	21:04:00					Drop Top Plug
10/28/2013	21:04:00					Start Displacement
10/28/2013	21:04:00	213	5.1	12.61	698.1	
10/28/2013	21:04:39	177	5.1	12.63	701.4	
10/28/2013	21:05:00					228 bbl Fresh Watewr
10/28/2013	21:05:00					Good Returns
10/28/2013	21:05:00	198	5.1	12.60	703.2	
10/28/2013	21:07:09	195	5.1	12.59	714.1	
10/28/2013	21:09:39	26	0.0	12.95	721.4	
10/28/2013	21:12:09	76	3.8	8.67	725.4	
10/28/2013	21:14:39	77	3.8	8.38	734.9	
10/28/2013	21:17:09	105	7.1	6.15	747.2	
10/28/2013	21:19:39	171	6.6	7.72	763.4	
10/28/2013	21:22:09	171	6.6	8.37	779.8	
10/28/2013	21:24:39	167	6.6	8.37	796.2	
10/28/2013	21:27:09	165	6.6	8.37	812.6	
10/28/2013	21:29:39	119	5.0	8.37	825.7	
10/28/2013	21:32:09	168	6.6	8.37	841.9	
10/28/2013	21:34:39	175	6.6	8.37	858.3	

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10/28/2013	21:39:39	242	6.5	8.37	891.1	
10/28/2013	21:42:09	314	6.5	8.37	907.5	
10/28/2013	21:44:39	346	6.5	8.37	923.8	
10/28/2013	21:47:09	342	5.1	8.37	940.1	
10/28/2013	21:49:39	272	3.5	8.37	949.0	
10/28/2013	21:50:00					Bump Top Plug
10/28/2013	21:50:00					End Displacement
10/28/2013	21:50:00					Bleed Off Check Floats
10/28/2013	21:50:00					Floats Held
10/28/2013	21:50:00					1 1/2 bbl Back
10/28/2013	21:50:00					320 bbl Cement To Surface
10/28/2013	21:50:00					Wait To Pump Parasite
10/28/2013	21:50:00	277	2.5	8.37	949.9	
10/28/2013	21:52:09	300	2.5	8.37	955.3	
10/28/2013	21:54:39	1096	0.0	8.37	960.7	
10/28/2013	21:57:09	1095	0.0	8.37	960.7	
10/28/2013	21:59:39	910	0.0	8.37	960.7	
10/28/2013	22:02:09	4	0.0	8.37	960.7	
10/28/2013	22:04:39	3	0.0	8.37	960.7	
10/28/2013	22:07:09	3	0.0	8.37	960.7	
10/28/2013	22:09:39	15	1.1	7.83	962.6	
10/28/2013	22:12:09	6	0.0	8.34	965.2	
10/28/2013	22:14:39	5	0.0	8.34	965.2	
10/28/2013	22:17:09	5	0.0	8.34	965.2	
10/28/2013	22:19:39	4	0.0	8.34	965.2	
10/28/2013	22:22:09	4	0.0	8.34	965.2	
10/28/2013	22:24:39	4	0.0	8.35	965.2	
10/28/2013	22:27:09	4	0.0	8.35	965.2	
10/28/2013	22:29:39	5	0.0	8.35	965.2	
10/28/2013	22:32:09	4	0.0	8.35	965.2	
10/28/2013	22:34:39	4	0.0	8.35	965.2	
10/28/2013	22:37:09	4	0.0	8.35	965.2	
10/28/2013	22:39:39	5	0.0	8.35	965.2	
10/28/2013	22:42:09	5	0.0	8.35	965.2	
10/28/2013	22:44:39	5	0.0	8.35	965.2	
10/28/2013	22:47:09	14	1.3	5.65	965.2	
10/28/2013	22:49:39	12	2.1	8.28	970.3	
10/28/2013	22:52:09	178	1.2	8.40	974.4	
10/28/2013	22:54:39	417	2.0	8.38	978.7	
10/28/2013	22:55:22					Pump 13 bbl Sugar Water
10/28/2013	22:55:22					Rig Down
10/28/2013	22:55:22	1	0.0	8.39	978.8	
10/28/2013	22:55:24					End Job
10/28/2013	22:55:24	2	0.0	8.39	978.8	

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SGU 8514E-34	Story Gulch	Oct/28/2013	Encana	COU5-00054

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
			68 degF	X	
				Washed Thru Perfs ☐	To

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
Robert Escojeda	Jordan Moreland / Stacy Terry	☐	X
		-	-