

**Well** SGU 8509E-33

**Field** Story Gulch

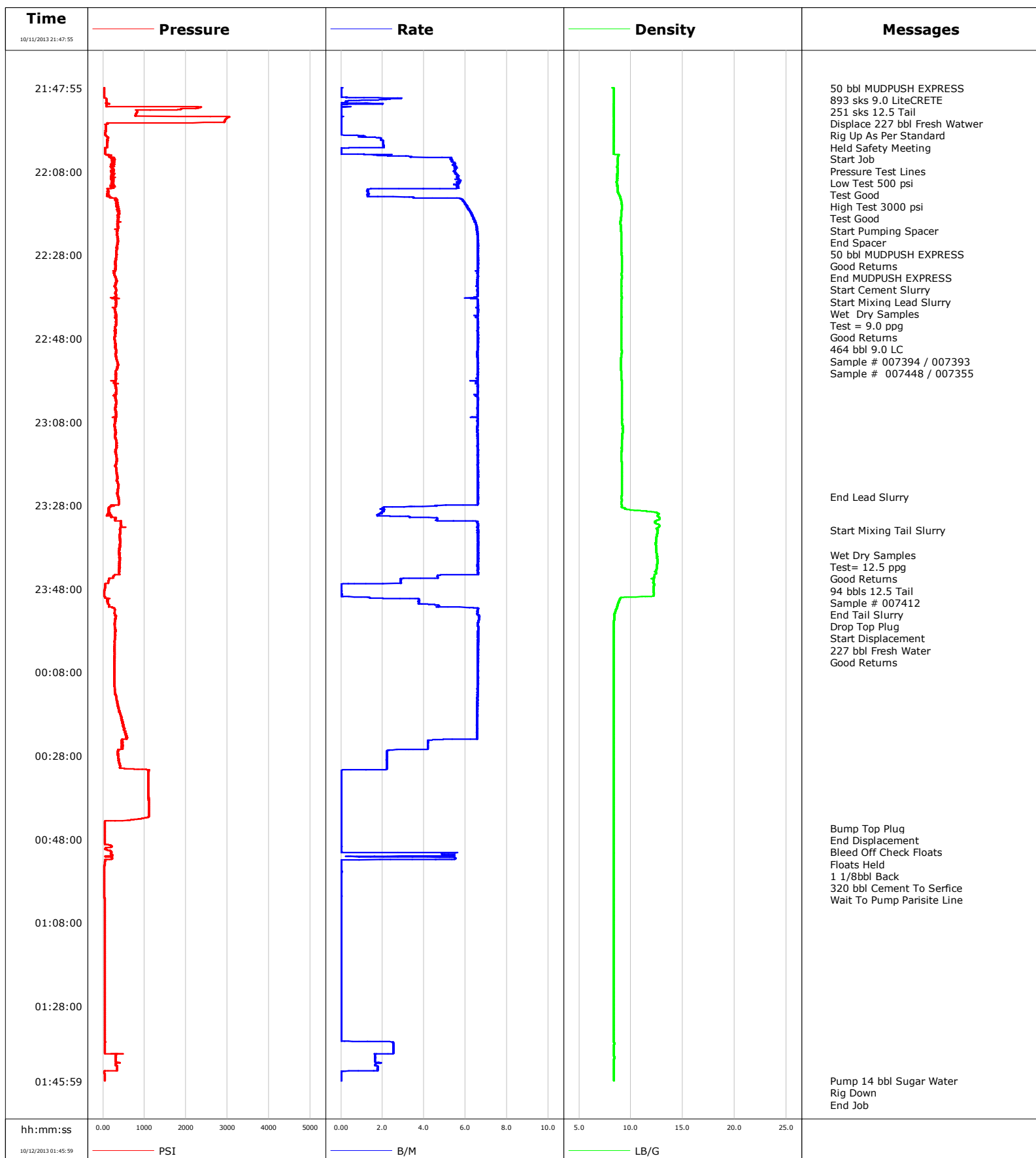
**Engineer** Jordan Moreland/ Brian David

**Country** United States

**Client** Encana

**SIR No.** CMI1-00374

**Job Type** 9 5/8 Surface

**Job Date** 10-11-2013




# Cementing Service Report

				Customer Encana		Job Number CMI1-00374		
Well SGU 8509E-33			Location (legal) E34		Schlumberger Location GCO		Job Start Oct/11/2013	
Field Story Gulch		Formation Name/Type		Deviation	Bit Size 14.8 in	Well MD		Well TVD
County Garfield		State/Province Colorado		BHP	BHST 120 degF	BHCT 92 degF	Pore Press. Gradient	
Well Master		API/UWI						
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	2983.0	9.630	36.0	K55	8RD	
			0.0	0.000	0.0			
Drilling Fluid Type		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 227.0 bbl	Packer Type	Packer Depth		
			Tubing Vol.	Casing Vol. 230.0 bbl	Annular Vol. 379.0 bbl	Openhole Vol. 627.0 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 1476 psi			Shoe Type Guide		Squeeze Type			
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 2983.0 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 Oct/11/2013	Arrived on Location Oct/11/2013	Leave Location Oct/11/2013	Collar Type Float		Tail Pipe Depth			
			Collar Depth 2937.0 ft		Sqz. Total Vol.			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/11/2013	21:47:30					Started Acquisition		
10/11/2013	21:47:55	30	0.1	8.33	0.0			
10/11/2013	21:47:56					50 bbl MUDPUSH EXPRESS		
10/11/2013	21:47:56					893 sks 9.0 LiteCRETE		
10/11/2013	21:47:56					251 sks 12.5 Tail		
10/11/2013	21:47:56					Displace 227 bbl Fresh Watwer		
10/11/2013	21:47:56					Rig Up As Per Standard		
10/11/2013	21:47:56					Held Safety Meeting		
10/11/2013	21:47:56	30	0.1	8.19	0.0			
10/11/2013	21:47:58					Start Job		
10/11/2013	21:47:58	30	0.0	8.28	0.0			
10/11/2013	21:47:59					Pressure Test Lines		
10/11/2013	21:47:59					Low Test 500 psi		
10/11/2013	21:47:59	30	0.0	8.31	0.0			
10/11/2013	21:48:01					Test Good		
10/11/2013	21:48:01					High Test 3000 psi		
10/11/2013	21:48:01					Test Good		
10/11/2013	21:48:01	30	0.0	8.33	0.0			
10/11/2013	21:49:50	29	0.0	8.34	0.0			
10/11/2013	21:52:10	78	0.0	8.33	2.1			
10/11/2013	21:54:30	786	0.0	8.33	2.2			

Well			Field	Job Start		Customer	Job Number
SGU 8509E-33			Story Gulch	Oct/11/2013		Encana	CMI1-00374
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/11/2013	21:59:10	52	0.0	8.33	2.3		
10/11/2013	22:01:15					Start Pumping Spacer	
10/11/2013	22:01:15	106	2.0	8.33	5.5		
10/11/2013	22:01:30	105	2.0	8.33	6.1		
10/11/2013	22:03:50	49	0.0	8.33	7.9		
10/11/2013	22:05:34					End Spacer	
10/11/2013	22:05:34	265	5.4	8.72	14.6		
10/11/2013	22:05:37					50 bbl MUDPUSH EXPRESS	
10/11/2013	22:05:37	213	5.4	8.72	14.9		
10/11/2013	22:05:38					Good Returns	
10/11/2013	22:05:38	229	5.4	8.72	14.9		
10/11/2013	22:06:10	264	5.5	8.74	17.8		
10/11/2013	22:08:30	208	5.6	8.68	30.7		
10/11/2013	22:10:50	242	5.7	8.65	43.8		
10/11/2013	22:12:25					End MUDPUSH EXPRESS	
10/11/2013	22:12:25	114	1.3	8.69	51.6		
10/11/2013	22:13:10	138	1.3	8.77	52.6		
10/11/2013	22:15:30	328	5.9	9.09	61.2		
10/11/2013	22:16:23					Start Cement Slurry	
10/11/2013	22:16:23	323	6.1	9.11	66.5		
10/11/2013	22:16:30					Start Mixing Lead Slurry	
10/11/2013	22:16:30	362	6.1	9.11	67.2		
10/11/2013	22:16:40					Wet Dry Samples	
10/11/2013	22:16:40	342	6.1	9.11	68.3		
10/11/2013	22:16:41					Test = 9.0 ppg	
10/11/2013	22:16:41					Good Returns	
10/11/2013	22:16:41	364	6.1	9.12	68.4		
10/11/2013	22:16:45					464 bbl 9.0 LC	
10/11/2013	22:16:45	352	6.1	9.11	68.8		
10/11/2013	22:17:50	387	6.2	9.08	75.5		
10/11/2013	22:20:10	365	6.5	8.99	90.3		
10/11/2013	22:21:56					Sample # 007394 / 007393	
10/11/2013	22:21:56					Sample # 007448 / 007355	
10/11/2013	22:21:56	294	6.5	9.03	101.8		
10/11/2013	22:22:30	340	6.6	9.05	105.5		
10/11/2013	22:24:50	362	6.6	9.06	120.9		
10/11/2013	22:27:10	323	6.6	9.09	136.3		
10/11/2013	22:29:30	289	6.6	9.12	151.7		
10/11/2013	22:31:50	286	6.6	9.13	167.1		
10/11/2013	22:34:10	333	6.6	9.08	182.4		
10/11/2013	22:36:30	312	6.6	9.08	197.8		
10/11/2013	22:38:50	309	6.6	9.09	213.0		
10/11/2013	22:41:10	291	6.6	9.07	228.4		
10/11/2013	22:43:30	314	6.6	9.08	243.8		
10/11/2013	22:45:50	295	6.6	9.07	259.1		
10/11/2013	22:48:10	270	6.6	9.07	274.5		
10/11/2013	22:50:30	305	6.6	9.07	289.9		
10/11/2013	22:52:50	326	6.6	9.04	305.3		
10/11/2013	22:55:10	342	6.6	9.03	320.6		
10/11/2013	22:57:30	304	6.6	9.08	336.0		
10/11/2013	22:59:50	313	6.6	9.11	351.3		
10/11/2013	23:02:10	297	6.6	9.14	366.7		
10/11/2013	23:04:30	314	6.6	9.13	382.0		
10/11/2013	23:06:50	318	6.6	9.14	397.4		

Well			Field		Job Start		Customer		Job Number	
SGU 8509E-33			Story Gulch		Oct/11/2013		Encana		CMI1-00374	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/11/2013	23:11:30	292	6.6	9.18	428.1					
10/11/2013	23:13:50	330	6.6	9.11	443.4					
10/11/2013	23:16:10	328	6.6	9.07	458.8					
10/11/2013	23:18:30	291	6.6	9.14	474.2					
10/11/2013	23:20:50	346	6.6	9.12	489.6					
10/11/2013	23:23:10	375	6.6	9.13	504.9					
10/11/2013	23:25:30	344	6.6	9.10	520.3					
10/11/2013	23:26:00					End Lead Slurry				
10/11/2013	23:26:00	372	6.6	9.09	523.6					
10/11/2013	23:27:50	378	6.6	9.09	535.7					
10/11/2013	23:30:10	102	1.8	12.67	542.1					
10/11/2013	23:32:30	425	6.6	12.53	552.5					
10/11/2013	23:34:00					Start Mixing Tail Slurry				
10/11/2013	23:34:00	410	6.6	12.58	562.4					
10/11/2013	23:34:50	412	6.6	12.53	567.9					
10/11/2013	23:37:10	408	6.6	12.39	583.3					
10/11/2013	23:39:30	405	6.6	12.47	598.7					
10/11/2013	23:40:00					Wet Dry Samples				
10/11/2013	23:40:00					Test= 12.5 ppg				
10/11/2013	23:40:00					Good Returns				
10/11/2013	23:40:00					94 bbls 12.5 Tail				
10/11/2013	23:40:00					Sample # 007412				
10/11/2013	23:40:00	395	6.6	12.49	602.0					
10/11/2013	23:41:50	396	6.6	12.56	614.1					
10/11/2013	23:42:00					End Tail Slurry				
10/11/2013	23:42:00	398	6.6	12.54	615.2					
10/11/2013	23:44:10	390	6.6	12.41	629.5					
10/11/2013	23:46:30	126	2.9	12.16	639.7					
10/11/2013	23:48:50	31	0.0	12.19	640.6					
10/11/2013	23:50:00					Drop Top Plug				
10/11/2013	23:50:00					Start Displacement				
10/11/2013	23:50:00					227 bbl Fresh Water				
10/11/2013	23:50:00					Good Returns				
10/11/2013	23:50:00	51	1.0	10.13	640.7					
10/11/2013	23:51:10	107	3.7	8.81	644.2					
10/11/2013	23:53:30	280	6.6	8.50	656.5					
10/11/2013	23:55:50	280	6.6	8.37	672.0					
10/11/2013	23:58:10	302	6.6	8.33	687.4					
10/12/2013	00:00:30	277	6.6	8.33	702.8					
10/12/2013	00:02:50	275	6.6	8.33	718.2					
10/12/2013	00:05:10	281	6.6	8.33	733.6					
10/12/2013	00:07:30	275	6.6	8.33	748.9					
10/12/2013	00:09:50	266	6.6	8.33	764.3					
10/12/2013	00:12:10	283	6.6	8.33	779.7					
10/12/2013	00:14:30	326	6.6	8.33	795.0					
10/12/2013	00:19:10	436	6.6	8.33	825.7					
10/12/2013	00:21:30	523	6.6	8.33	841.0					
10/12/2013	00:23:50	563	6.5	8.33	856.3					
10/12/2013	00:26:10	467	4.2	8.32	866.8					
10/12/2013	00:28:30	364	2.2	8.33	872.8					
10/12/2013	00:30:50	423	2.2	8.33	877.9					
10/12/2013	00:33:10	1092	0.0	8.33	879.2					
10/12/2013	00:35:30	1093	0.0	8.33	879.3					
10/12/2013	00:37:50	1096	0.0	8.33	879.3					

Well			Field		Job Start		Customer		Job Number	
SGU 8509E-33			Story Gulch		Oct/11/2013		Encana		CM11-00374	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/12/2013	00:42:30	1099	0.0	8.33	879.4					
10/12/2013	00:44:50	41	0.0	8.33	879.4					
10/12/2013	00:45:29					Bump Top Plug				
10/12/2013	00:45:29	41	0.0	8.33	879.4					
10/12/2013	00:45:32					End Displacement				
10/12/2013	00:45:32	41	0.0	8.33	879.4					
10/12/2013	00:45:51					Bleed Off Check Floats				
10/12/2013	00:45:51					Floats Held				
10/12/2013	00:45:51					1 1/8bbl Back				
10/12/2013	00:45:51	41	0.0	8.33	879.4					
10/12/2013	00:45:52					320 bbl Cement To Serfice				
10/12/2013	00:45:52	41	0.0	8.33	879.4					
10/12/2013	00:45:53					Wait To Pump Parisite Line				
10/12/2013	00:45:53	41	0.0	8.33	879.4					
10/12/2013	00:47:10	42	0.0	8.33	879.4					
10/12/2013	00:49:30	184	0.0	8.33	879.5					
10/12/2013	00:51:50	223	5.5	8.33	882.3					
10/12/2013	00:54:10	39	0.0	8.33	887.3					
10/12/2013	00:56:30	30	0.0	8.33	887.3					
10/12/2013	00:58:50	29	0.0	8.33	887.4					
10/12/2013	01:01:10	29	0.0	8.33	887.4					
10/12/2013	01:03:30	40	0.0	8.33	887.4					
10/12/2013	01:05:50	41	0.0	8.33	887.5					
10/12/2013	01:08:10	40	0.0	8.33	887.5					
10/12/2013	01:10:30	40	0.0	8.33	887.5					
10/12/2013	01:12:50	40	0.0	8.33	887.6					
10/12/2013	01:15:10	39	0.0	8.33	887.6					
10/12/2013	01:17:30	39	0.0	8.32	887.6					
10/12/2013	01:19:50	39	0.0	8.32	887.7					
10/12/2013	01:22:10	39	0.0	8.32	887.7					
10/12/2013	01:24:30	39	0.0	8.33	887.7					
10/12/2013	01:26:50	38	0.0	8.33	887.8					
10/12/2013	01:29:10	38	0.0	8.33	887.8					
10/12/2013	01:31:30	38	0.0	8.33	887.8					
10/12/2013	01:33:50	38	0.0	8.33	887.8					
10/12/2013	01:36:10	36	0.0	8.33	887.9					
10/12/2013	01:38:30	44	2.5	8.36	892.8					
10/12/2013	01:40:50	301	1.6	8.36	897.5					
10/12/2013	01:43:10	341	1.8	8.34	901.5					
10/12/2013	01:45:30	37	0.0	8.34	902.3					
10/12/2013	01:45:56					Pump 14 bbl Sugar Water				
10/12/2013	01:45:56					Rig Down				
10/12/2013	01:45:56	37	0.0	8.34	902.3					
10/12/2013	01:45:57					End Job				
10/12/2013	01:45:57	36	0.0	8.34	902.3					

Well	Field	Job Start	Customer	Job Number
SGU 8509E-33	Story Gulch	Oct/11/2013	Encana	CMI1-00374

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	
Mark Shultz			Jordan Moreland/ Brian David			-	-	