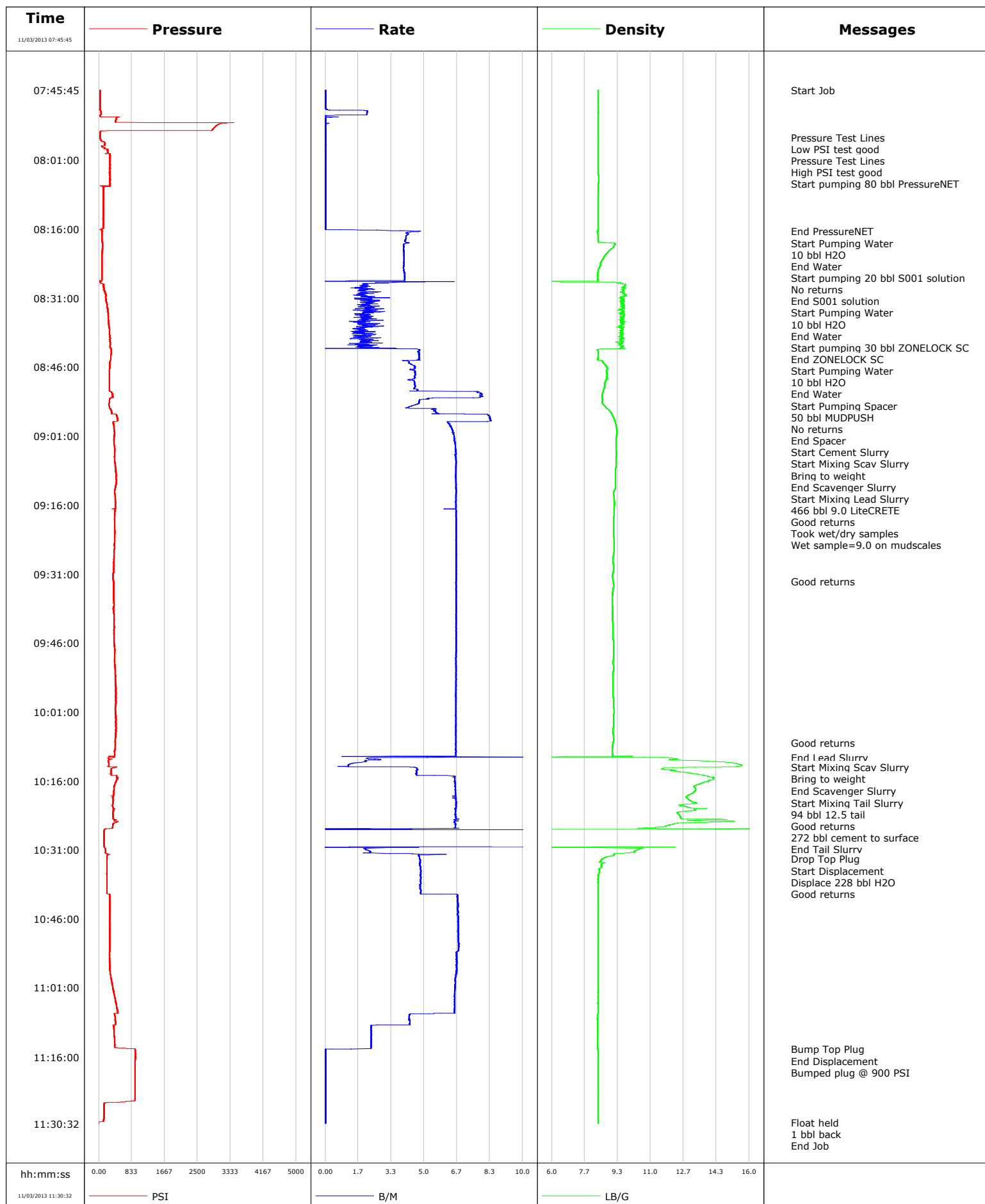


Well SGU 8515E-34
Field Story Gulch
Engineer Matt Fair/Stacy Terry
Country United States

Client Encana
SIR No. COU5-00056
Job Type 9 5/8" Surface
Job Date 11-03-2013



					Customer Encana			Job Number COU5-00056									
Well SGU 8515E-34				Location (legal)			Schlumberger Location			Job Start Nov/03/2013							
Field Story Gulch			Formation Name/Type Shale			Deviation deg		Bit Size 14.8 in		Well MD 2994.0 ft		Well TVD 2994.0 ft					
County Garfield			State/Province Colorado			BHP psi		BHST 120 degF		BHCT 91 degF		Pore Press. Gradient lb/gal					
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		2994.0		9.6		36.0		K55		8RD			
						0.0		0.0		0.0							
Drilling Fluid Type Bentonite			Max. Density 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						Diameter in	
								Treat Down Casing		Displacement 228.0 bbl		Packer Type		Packer Depth ft			
								Tubing Vol. bbl		Casing Vol. 231.0 bbl		Annular Vol. 381.0 bbl		Openhole Vol. 629.0 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 1481 psi								Shoe Type Float				Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>						Shoe Depth 2994.0 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 Nov/03/2013 05:00			Arrived on Location Nov/03/2013 05:00			Leave Location Nov/03/2013 13:00			Collar Type Float				Tail Pipe Depth ft				
									Collar Depth 2951.0 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										
11/03/2013	07:45:45	8.34	27	0.0	0.4	0.4	Started Acquisition										
11/03/2013	07:45:49	8.34	27	0.0	0.4	0.4	Start Job										
11/03/2013	07:48:15	8.34	26	0.0	0.5	0.5											
11/03/2013	07:50:45	8.35	57	2.1	1.3	1.8											
11/03/2013	07:53:15	8.34	3021	0.0	2.4	2.8											
11/03/2013	07:55:45	8.34	34	0.0	2.4	2.8											
11/03/2013	07:56:01	8.34	30	0.0	0.0	2.8	Pressure Test Lines										
11/03/2013	07:56:02	8.34	30	0.0	0.0	2.8	Low PSI test good										
11/03/2013	07:56:03	8.34	35	0.0	0.0	2.8	High PSI test good										
11/03/2013	07:56:18	8.34	35	0.0	0.0	2.8	Start pumping 80 bbl PressureNET										
11/03/2013	07:58:15	8.34	155	0.0	0.0	2.9											
11/03/2013	08:00:45	8.34	274	0.0	0.1	2.9											
11/03/2013	08:03:15	8.35	289	0.0	0.1	3.0											
11/03/2013	08:05:45	8.35	259	0.0	0.1	3.0											
11/03/2013	08:08:15	8.35	113	0.0	0.2	3.0											
11/03/2013	08:10:45	8.35	117	0.0	0.2	3.0											
11/03/2013	08:13:15	8.35	113	0.0	0.2	3.1											
11/03/2013	08:15:45	8.34	112	0.0	0.2	3.1											
11/03/2013	08:16:29	8.33	78	4.8	1.3	4.1	End PressureNET										
11/03/2013	08:16:31	8.30	80	4.7	1.4	4.3	Start Pumping Water										
11/03/2013	08:16:59	8.33	82	4.2	3.4	6.2	10 bbl H2O										

Well SGU 8515E-34			Field Story Gulch		Job Start Nov/03/2013		Customer Encana	Job Number COU5-00056
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	
11/03/2013	08:18:47	8.33	81	4.1	10.8	13.6	End Water	
11/03/2013	08:18:49	8.33	83	4.1	10.9	13.7	Start pumping 20 bbl S001 solution	
11/03/2013	08:20:45	8.89	83	4.0	5.9	21.5		
11/03/2013	08:23:15	8.48	85	4.0	15.8	31.4		
11/03/2013	08:23:25	8.46	79	4.0	16.5	32.1	No returns	
11/03/2013	08:24:40	8.38	81	4.0	0.3	37.1	End S001 solution	
11/03/2013	08:24:41	8.37	80	4.0	0.4	37.1	Start Pumping Water	
11/03/2013	08:24:53	8.34	80	4.0	1.2	37.9	10 bbl H2O	
11/03/2013	08:25:45	8.33	85	4.0	4.7	41.4		
11/03/2013	08:27:10	8.33	82	4.0	10.4	47.1	End Water	
11/03/2013	08:27:12	8.33	26	4.0	10.5	47.2	Start pumping 30 bbl ZONELOCK SC	
11/03/2013	08:28:15	9.68	117	1.7	2.5	49.8		
11/03/2013	08:30:45	9.53	176	2.3	7.4	54.7		
11/03/2013	08:33:15	9.64	221	1.8	12.8	60.1		
11/03/2013	08:35:45	9.38	255	2.2	17.9	65.3		
11/03/2013	08:38:15	9.48	260	2.1	22.9	70.3		
11/03/2013	08:40:45	9.56	290	2.7	27.8	75.1		
11/03/2013	08:41:52	9.63	293	1.7	30.0	77.3	End ZONELOCK SC	
11/03/2013	08:41:55	9.56	295	3.6	30.1	77.5	Start Pumping Water	
11/03/2013	08:41:56	9.49	290	1.1	30.2	77.5	10 bbl H2O	
11/03/2013	08:43:15	8.34	308	4.8	36.1	83.5		
11/03/2013	08:44:25	8.33	300	4.7	41.7	89.0	End Water	
11/03/2013	08:44:28	8.33	299	4.8	41.9	89.3	Start Pumping Spacer	
11/03/2013	08:44:29	8.33	301	4.8	42.0	89.3	50 bbl MUDPUSH	
11/03/2013	08:45:45	8.74	272	4.5	5.1	94.8		
11/03/2013	08:48:15	8.78	265	4.5	16.4	106.1		
11/03/2013	08:50:45	8.64	260	4.5	27.6	117.3		
11/03/2013	08:52:55	8.56	281	5.1	42.3	132.0	No returns	
11/03/2013	08:53:15	8.57	265	4.8	44.0	133.7		
11/03/2013	08:54:56	8.77	260	4.1	51.6	141.3	End Spacer	
11/03/2013	08:54:57	8.78	267	4.3	51.7	141.4	Start Cement Slurry	
11/03/2013	08:54:59	8.79	273	4.9	51.8	141.5	Bring to weight	
11/03/2013	08:55:45	8.97	333	5.6	56.0	145.8		
11/03/2013	08:55:55	9.00	320	5.6	57.0	146.7	End Scavenger Slurry	
11/03/2013	08:57:55	9.21	367	6.2	10.3	162.3	Start Mixing Lead Slurry	
11/03/2013	08:57:56	9.21	370	6.2	10.4	162.4	466 bbl 9.0 LiteCRETE	
11/03/2013	08:58:15	9.23	368	6.3	12.4	164.4		
11/03/2013	09:00:45	9.29	391	6.5	28.4	180.4		
11/03/2013	09:03:15	9.25	395	6.6	44.7	196.8		
11/03/2013	09:05:45	9.26	401	6.6	61.2	213.3		
11/03/2013	09:08:15	9.23	426	6.6	77.8	229.8		
11/03/2013	09:10:09	9.23	441	6.6	90.3	242.4	Good returns	
11/03/2013	09:10:45	9.23	444	6.6	94.3	246.3		
11/03/2013	09:13:15	9.13	403	6.6	110.8	262.9		
11/03/2013	09:15:45	9.17	418	6.6	127.4	279.4		
11/03/2013	09:18:15	9.14	405	6.6	143.8	295.9		
11/03/2013	09:18:25	9.14	403	6.6	144.9	297.0	Took wet/dry samples	
11/03/2013	09:18:33	9.14	400	6.6	145.8	297.9	Wet sample=9.0 on mudscales	
11/03/2013	09:20:45	9.13	396	6.6	160.4	312.4		
11/03/2013	09:23:15	9.14	400	6.6	176.9	329.0		
11/03/2013	09:25:45	9.15	388	6.6	193.5	345.5		
11/03/2013	09:28:15	9.10	381	6.6	210.1	362.1		
11/03/2013	09:30:45	9.10	370	6.6	226.6	378.7		
11/03/2013	09:32:38	9.11	373	6.6	239.1	391.2	Good returns	

Well			Field		Job Start		Customer	Job Number
SGU 8515E-34			Story Gulch		Nov/03/2013		Encana	COU5-00056
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	
11/03/2013	09:35:45	9.07	372	6.6	259.8	411.8		
11/03/2013	09:38:15	9.07	375	6.6	276.3	428.4		
11/03/2013	09:40:45	9.08	392	6.6	292.9	444.9		
11/03/2013	09:43:15	9.10	379	6.6	309.4	461.5		
11/03/2013	09:45:45	9.12	385	6.6	326.0	478.0		
11/03/2013	09:48:15	9.13	403	6.6	342.5	494.6		
11/03/2013	09:50:45	9.11	407	6.6	359.0	511.1		
11/03/2013	09:53:15	9.10	418	6.6	375.6	527.6		
11/03/2013	09:55:45	9.11	432	6.6	392.1	544.2		
11/03/2013	09:58:15	9.12	424	6.6	408.6	560.7		
11/03/2013	10:00:45	9.14	421	6.6	425.1	577.2		
11/03/2013	10:03:15	9.12	430	6.6	441.7	593.7		
11/03/2013	10:05:45	9.11	425	6.6	458.2	610.2		
11/03/2013	10:07:40	9.11	412	6.6	470.8	622.9	Good returns	
11/03/2013	10:08:15	9.09	414	6.6	474.7	626.7		
11/03/2013	10:10:45	9.01	294	0.8	491.0	643.0		
11/03/2013	10:10:50	9.72	378	7.9	491.4	643.4	End Lead Slurry	
11/03/2013	10:12:59	14.94	444	4.0	495.8	647.9	Start Mixing Scav Slurry	
11/03/2013	10:13:00	14.58	437	4.3	495.9	648.0	Bring to weight	
11/03/2013	10:13:15	11.65	342	4.6	497.0	649.1		
11/03/2013	10:15:45	14.17	454	6.5	3.1	662.3		
11/03/2013	10:18:11	13.25	376	6.6	19.1	678.3	End Scavenger Slurry	
11/03/2013	10:18:12	13.25	383	6.6	19.2	678.4	Start Mixing Tail Slurry	
11/03/2013	10:18:13	13.25	392	6.6	19.3	678.5	94 bbl 12.5 tail	
11/03/2013	10:18:15	13.24	386	6.6	19.5	678.7		
11/03/2013	10:20:45	13.28	361	6.6	36.0	695.2		
11/03/2013	10:23:15	12.41	357	6.6	52.5	711.7		
11/03/2013	10:23:20	12.43	358	6.6	53.1	712.3	Good returns	
11/03/2013	10:23:28	12.45	358	6.6	53.9	713.2	272 bbl cement to surface	
11/03/2013	10:24:30	13.54	451	6.5	60.8	720.0	End Tail Slurry	
11/03/2013	10:25:45	11.85	356	6.6	69.0	728.2		
11/03/2013	10:28:15	0.15	131	25.0	112.1	771.3		
11/03/2013	10:30:45	10.49	160	2.0	0.4	824.4		
11/03/2013	10:32:59	8.55	207	4.8	8.4	832.4	Drop Top Plug	
11/03/2013	10:33:00	8.54	207	4.8	8.4	832.4	Start Displacement	
11/03/2013	10:33:15	8.50	207	4.8	9.6	833.6		
11/03/2013	10:35:45	8.41	204	4.8	21.7	845.6		
11/03/2013	10:38:15	8.34	205	4.8	33.7	857.7		
11/03/2013	10:39:53	8.33	202	4.8	41.6	865.5	Good returns	
11/03/2013	10:40:45	8.33	274	6.7	45.9	869.9		
11/03/2013	10:43:15	8.33	276	6.7	62.7	886.6		
11/03/2013	10:45:45	8.33	275	6.7	79.4	903.4		
11/03/2013	10:48:15	8.34	274	6.7	96.3	920.3		
11/03/2013	10:50:45	8.34	274	6.7	113.1	937.1		
11/03/2013	10:53:15	8.33	269	6.6	130.0	954.0		
11/03/2013	10:55:45	8.33	273	6.7	146.6	970.6		
11/03/2013	10:58:15	8.33	296	6.6	163.2	987.2		
11/03/2013	11:00:45	8.33	346	6.6	179.7	1003.7		
11/03/2013	11:03:15	8.33	408	6.5	196.1	1020.1		
11/03/2013	11:05:45	8.34	459	6.5	212.4	1036.4		
11/03/2013	11:08:15	8.33	419	4.3	225.1	1049.1		
11/03/2013	11:10:45	8.32	386	2.3	232.7	1056.7		
11/03/2013	11:13:15	8.32	401	2.3	238.5	1062.5		
11/03/2013	11:14:25	8.34	917	0.0	241.0	1065.0	Bump Top Plug	

Well			Field		Job Start		Customer		Job Number
SGU 8515E-34			Story Gulch		Nov/03/2013		Encana		COU5-00056
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		
11/03/2013	11:15:45	8.34	921	0.0	241.0	1065.0			
11/03/2013	11:18:15	8.34	918	0.0	241.1	1065.1			
11/03/2013	11:20:45	8.34	917	0.0	241.1	1065.1			
11/03/2013	11:23:15	8.34	916	0.0	241.1	1065.1			
11/03/2013	11:25:45	8.34	722	0.0	241.1	1065.1			
11/03/2013	11:28:15	8.34	126	0.0	241.1	1065.2			
11/03/2013	11:30:14	8.34	-0	0.0	241.2	1065.2	Float held		
11/03/2013	11:30:19	8.34	-0	0.0	241.2	1065.2	1 bbl back		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 4.8	N2		Mud	Maximum Rate 25.0	Total Slurry 560.0	Mud 0.0	Spacer 140.9		N2
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 3428	Final -0	Average 349	Bump Plug to 1200	Breakdown	Type		Volume bbl		Density lb/gal
Avg. N2 Percent %		Designed Slurry Volume 560.0 bbl		Displacement 228.0 bbl	Mix Water Temp 57 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 272.0 bbl
							Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative Mark Schulz				Schlumberger Supervisor Matt Fair/Stacy Terry			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
							-		-



Service Quality Evaluation

Client:	Encana
Field:	Story Gulch
Rig:	Patterson 326
Well:	SGU 8515E-34
Service Line:	Cementing
Job Type:	9 5/8" Surface

Service Order #:	
Date:	Nov/03/2013
Operating Time (hh:mm):	00:00
Client Rep:	Mark Schulz
Schlumberger Engineer:	Matt Fair/Stacy Terry
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 - 009523, 010085 Lead - 010499, 009862 Tail - 009705
Client Signature:	Schlumberger Signature: