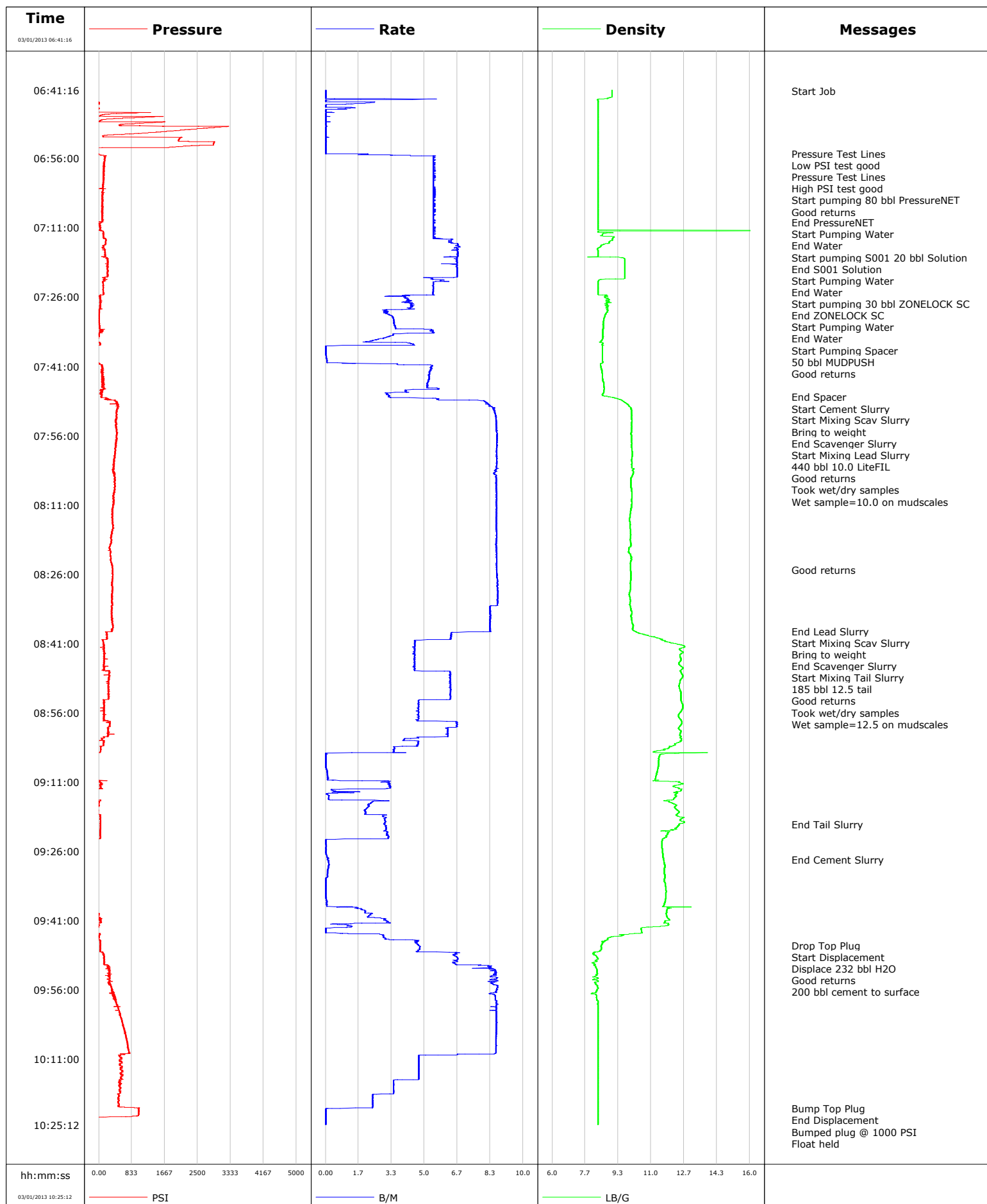


<b>Well</b>	SG 8512D-36	<b>Client</b>	Encana
<b>Field</b>	Story Gulch	<b>SIR No.</b>	C610-01139
<b>Engineer</b>	Matt Fair/Cole Fairbrook	<b>Job Type</b>	9 5/8" Surface
<b>Country</b>	United States	<b>Job Date</b>	03-01-2013



					Customer Encana		Job Number C610-01139			
Well SG 8512D-36			Location (legal)		Schlumberger Location			Job Start Mar/01/2013		
Field Story Gulch		Formation Name/Type Shale		Deviation deg	Bit Size 14.8 in		Well MD 3033.0 ft		Well TVD 3033.0 ft	
County Garfield		State/Province Colorado		BHP psi	BHST 120 degF	BHCT 96 degF	Pore Press. Gradient lb/gal			
Well Master 0631304014		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		3033.0	9.6	36.0	K55	8RD	
					0.0	0.0	0.0			
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	
Service Instructions 756sks/376bbl 10.0 Lead Y=2.79 492sks/185bbl 12.5 Tail Y=2.11				ft	ft					
				ft	ft			Diameter in		
				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/01/2013 03:00		Arrived on Location Mar/01/2013 03:00		Leave Location Mar/01/2013 12:00		Collar Type Float			Tail Pipe Depth ft	
						Collar Depth 2989.0 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			
03/01/2013	06:41:16	9.02	-47	0.0	23.4	23.4	Started Acquisition			
03/01/2013	06:41:23	9.02	-47	0.0	23.4	23.4	Start Job			
03/01/2013	06:43:46	8.32	-48	0.0	0.8	0.8				
03/01/2013	06:46:16	8.31	722	0.0	2.3	2.3				
03/01/2013	06:48:46	8.31	527	0.0	2.3	2.3				
03/01/2013	06:51:16	8.31	101	0.0	2.3	2.3				
03/01/2013	06:53:46	8.31	-36	0.0	2.4	2.4				
03/01/2013	06:54:56	8.31	-16	0.0	2.4	2.4	Pressure Test Lines			
03/01/2013	06:54:57	8.31	-8	0.0	2.4	2.4	Low PSI test good			
03/01/2013	06:54:58	8.31	-3	0.0	2.4	2.4	Pressure Test Lines			
03/01/2013	06:54:59	8.31	-3	0.0	2.4	2.4	High PSI test good			
03/01/2013	06:55:03	8.31	-4	0.0	0.0	2.4	Start pumping 80 bbl PressureNET			
03/01/2013	06:56:16	8.31	134	5.4	5.4	7.8				
03/01/2013	06:58:39	8.31	120	5.4	18.4	20.8	Good returns			
03/01/2013	06:58:46	8.31	135	5.4	19.0	21.4				
03/01/2013	07:01:16	8.31	113	5.4	32.7	35.1				
03/01/2013	07:03:46	8.31	90	5.4	46.4	48.7				
03/01/2013	07:06:16	8.31	81	5.4	60.0	62.4				
03/01/2013	07:08:46	8.31	85	5.4	73.7	76.1				
03/01/2013	07:09:52	8.31	87	5.6	0.4	82.0	End PressureNET			
03/01/2013	07:09:55	8.31	58	5.4	0.6	82.3	Start Pumping Water			

Well SG 8512D-36			Field Story Gulch		Job Start Mar/01/2013		Customer Encana	Job Number C610-01139
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	
03/01/2013	07:12:04	8.72	110	5.4	12.4	94.0	End Water	
03/01/2013	07:12:06	9.06	113	5.6	0.0	94.2	Start pumping S001 20 bbl Solution	
03/01/2013	07:13:46	9.04	174	6.4	9.4	103.6		
03/01/2013	07:15:39	8.29	139	6.7	0.2	116.0	End S001 Solution	
03/01/2013	07:15:40	8.29	146	6.7	0.3	116.1	Start Pumping Water	
03/01/2013	07:16:16	8.31	151	6.7	4.3	120.1		
03/01/2013	07:17:11	8.31	152	6.7	10.5	126.2	End Water	
03/01/2013	07:17:15	8.31	156	6.7	10.9	126.6	Start pumping 30 bbl ZONELOCK SC	
03/01/2013	07:18:46	9.67	226	6.7	9.1	136.7		
03/01/2013	07:21:16	9.67	217	6.7	25.6	153.3		
03/01/2013	07:22:05	9.67	146	5.4	30.7	158.3	End ZONELOCK SC	
03/01/2013	07:22:06	9.65	146	5.4	30.8	158.4	Start Pumping Water	
03/01/2013	07:23:46	8.31	110	5.4	9.1	167.7		
03/01/2013	07:25:43	8.70	39	4.0	0.8	178.2	End Water	
03/01/2013	07:25:48	8.69	6	4.0	1.1	178.5	Start Pumping Spacer	
03/01/2013	07:25:50	8.75	11	3.2	1.2	178.6	50 bbl MUDPUSH	
03/01/2013	07:26:16	8.81	28	4.1	2.9	180.3		
03/01/2013	07:28:46	8.76	3	3.2	13.5	190.9		
03/01/2013	07:31:16	8.60	9	3.5	21.7	199.0		
03/01/2013	07:32:36	8.58	13	3.5	26.3	203.7	Good returns	
03/01/2013	07:33:46	8.57	17	5.4	31.9	209.3		
03/01/2013	07:36:16	8.54	28	4.4	40.0	217.4		
03/01/2013	07:38:46	8.54	-29	0.0	41.3	218.7		
03/01/2013	07:41:16	8.47	82	5.4	45.4	222.8		
03/01/2013	07:43:46	8.55	87	5.2	58.6	236.0		
03/01/2013	07:46:16	8.62	35	4.1	71.5	248.9		
03/01/2013	07:47:41	8.94	65	3.2	1.2	253.8	End Spacer	
03/01/2013	07:47:43	8.97	62	3.2	1.3	253.9	Start Cement Slurry	
03/01/2013	07:47:44	8.98	62	3.2	1.4	254.0	Start Mixing Scav Slurry	
03/01/2013	07:47:45	9.02	77	3.2	1.4	254.0	Bring to weight	
03/01/2013	07:48:46	9.64	441	8.1	7.7	260.3		
03/01/2013	07:49:28	9.86	498	8.3	13.5	266.1	End Scavenger Slurry	
03/01/2013	07:49:29	9.86	498	8.3	13.6	266.2	Start Mixing Lead Slurry	
03/01/2013	07:49:30	9.86	490	8.3	13.7	266.3	440 bbl 10.0 LiteFIL	
03/01/2013	07:51:16	10.01	439	8.6	28.8	281.3		
03/01/2013	07:53:46	10.02	437	8.6	50.3	302.9		
03/01/2013	07:54:23	10.02	434	8.6	55.6	308.2	Good returns	
03/01/2013	07:56:16	10.01	446	8.7	72.0	324.6		
03/01/2013	07:57:56	10.02	426	8.7	86.4	339.0	Took wet/dry samples	
03/01/2013	07:58:46	10.03	410	8.7	93.7	346.2		
03/01/2013	07:59:06	10.03	413	8.7	96.6	349.1	Wet sample=10.0 on mudscales	
03/01/2013	08:01:16	10.01	375	8.7	115.3	367.9		
03/01/2013	08:03:46	10.10	381	8.7	137.0	389.5		
03/01/2013	08:06:16	9.99	398	8.6	158.5	411.1		
03/01/2013	08:08:46	10.03	377	8.6	180.1	432.7		
03/01/2013	08:11:16	10.01	362	8.6	201.7	454.3		
03/01/2013	08:13:46	9.93	342	8.6	223.4	476.0		
03/01/2013	08:16:16	9.95	355	8.7	245.0	497.6		
03/01/2013	08:18:46	9.95	319	8.6	266.6	519.2		
03/01/2013	08:21:16	9.87	303	8.7	288.2	540.8		
03/01/2013	08:23:46	9.95	323	8.7	309.9	562.5		
03/01/2013	08:25:09	9.95	342	8.7	321.9	574.5	Good returns	
03/01/2013	08:26:16	9.99	353	8.7	331.6	584.2		
03/01/2013	08:28:46	9.96	337	8.7	353.3	605.9		

Well			Field		Job Start		Customer		Job Number
SG 8512D-36			Story Gulch		Mar/01/2013		Encana		C610-01139
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		
03/01/2013	08:33:46	9.99	322	8.3	396.5	649.1			
03/01/2013	08:36:16	10.03	356	8.3	417.3	669.9			
03/01/2013	08:38:19	10.15	325	8.3	4.3	686.9	End Lead Slurry		
03/01/2013	08:38:22	10.18	318	8.3	4.7	687.3	Start Mixing Scav Slurry		
03/01/2013	08:38:23	10.19	337	8.3	4.9	687.5	Bring to weight		
03/01/2013	08:38:46	10.37	201	6.4	7.7	690.3			
03/01/2013	08:41:16	12.43	126	4.5	21.7	704.3			
03/01/2013	08:42:37	12.51	123	4.5	27.8	710.4	End Scavenger Slurry		
03/01/2013	08:42:38	12.52	123	4.5	27.8	710.5	Start Mixing Tail Slurry		
03/01/2013	08:42:39	12.53	125	4.5	27.9	710.5	185 bbl 12.5 tail		
03/01/2013	08:43:46	12.46	141	4.5	32.9	715.6			
03/01/2013	08:45:57	12.51	122	4.5	42.8	725.4	Good returns		
03/01/2013	08:46:16	12.61	129	4.5	44.2	726.8			
03/01/2013	08:47:41	12.56	247	6.3	51.8	734.4	Took wet/dry samples		
03/01/2013	08:47:50	12.58	130	6.3	52.8	735.4	Wet sample=12.5 on mudscales		
03/01/2013	08:48:46	12.51	249	6.3	58.6	741.3			
03/01/2013	08:51:16	12.48	255	6.3	74.4	757.1			
03/01/2013	08:53:46	12.55	135	4.7	89.4	772.0			
03/01/2013	08:56:16	12.42	134	4.7	101.1	783.7			
03/01/2013	08:58:46	12.49	276	6.6	114.5	797.2			
03/01/2013	09:01:16	12.50	131	5.5	130.2	812.8			
03/01/2013	09:03:46	11.87	45	3.5	141.0	823.6			
03/01/2013	09:06:16	11.39	-42	0.0	144.2	826.8			
03/01/2013	09:08:46	11.32	-39	0.1	144.2	826.9			
03/01/2013	09:11:16	12.54	57	3.2	146.2	828.8			
03/01/2013	09:13:46	12.23	-36	0.1	151.0	833.6			
03/01/2013	09:16:16	12.23	2	2.2	154.3	836.9			
03/01/2013	09:18:46	12.65	39	3.1	160.1	842.7			
03/01/2013	09:20:13	12.42	39	3.0	164.4	847.0	End Tail Slurry		
03/01/2013	09:21:16	12.28	37	3.1	167.6	850.2			
03/01/2013	09:23:46	11.56	-47	0.0	174.2	856.8			
03/01/2013	09:26:16	11.58	-48	0.0	174.2	856.9			
03/01/2013	09:27:42	11.63	-48	0.1	174.3	857.0	End Cement Slurry		
03/01/2013	09:28:46	11.68	-47	0.2	174.5	857.1			
03/01/2013	09:31:16	11.69	-44	0.1	174.8	857.4			
03/01/2013	09:33:46	11.74	-47	0.0	174.8	857.5			
03/01/2013	09:36:16	11.74	-49	0.0	174.8	857.5			
03/01/2013	09:38:46	11.80	-11	2.0	176.2	858.8			
03/01/2013	09:41:16	11.69	41	3.1	182.3	864.9			
03/01/2013	09:43:46	10.50	-31	0.8	184.4	867.1			
03/01/2013	09:46:16	8.52	39	4.7	8.3	876.0			
03/01/2013	09:46:18	8.50	38	4.7	8.4	876.2	Drop Top Plug		
03/01/2013	09:46:19	8.50	37	4.7	8.5	876.2	Start Displacement		
03/01/2013	09:46:20	8.50	35	4.7	8.6	876.3	Displace 232 bbl H2O		
03/01/2013	09:48:46	8.25	129	6.6	21.8	889.5			
03/01/2013	09:50:37	8.16	209	6.6	34.0	901.8	Good returns		
03/01/2013	09:51:16	8.21	209	8.3	39.4	907.1			
03/01/2013	09:53:46	8.06	242	8.4	60.7	928.4			
03/01/2013	09:55:40	8.31	320	8.7	77.0	944.7	200 bbl cement to surface		
03/01/2013	09:56:16	8.24	316	8.6	82.2	949.9			
03/01/2013	09:58:46	8.31	437	8.6	103.6	971.3			
03/01/2013	10:01:16	8.31	531	8.7	125.2	992.9			
03/01/2013	10:03:46	8.31	613	8.6	146.8	1014.5			
03/01/2013	10:06:16	8.31	694	8.6	168.4	1036.1			

Well			Field		Job Start		Customer		Job Number
SG 8512D-36			Story Gulch		Mar/01/2013		Encana		C610-01139
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		
03/01/2013	10:11:16	8.31	515	4.7	206.6	1074.3			
03/01/2013	10:13:46	8.31	601	4.7	218.4	1086.1			
03/01/2013	10:16:16	8.31	528	3.4	229.2	1096.9			
03/01/2013	10:18:46	8.31	500	2.4	237.6	1105.3			
03/01/2013	10:21:16	8.31	487	2.4	243.5	1111.3			
03/01/2013	10:21:38	8.31	1018	0.7	244.4	1112.1	Bump Top Plug		
03/01/2013	10:21:39	8.31	988	0.3	244.4	1112.1	End Displacement		
03/01/2013	10:21:40	8.31	1011	0.1	244.4	1112.1	Bumped plug @ 1000 PSI		
03/01/2013	10:23:46	8.31	-55	0.0	244.4	1112.2			
03/01/2013	10:24:52	8.31	-55	0.0	244.4	1112.2	Float held		
03/01/2013	10:24:54	8.31	-55	0.0	244.4	1112.2	1/2 bbl back		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 5.3	N2		Mud	Maximum Rate 8.7	Total Slurry 561.0	Mud 0.0	Spacer 50.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 3287	Final -55	Average 313	Bump Plug to 1200	Breakdown	Type		Volume bbl		Density lb/gal
Avg. N2 Percent %		Designed Slurry Volume 561.0 bbl		Displacement 230.0 bbl	Mix Water Temp 57 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 200.0 bbl	
						Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative Mike Quintana				Schlumberger Supervisor Matt Fair/Cole Fairbrook			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
							-	-	



# Service Quality Evaluation

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

Service Order #:	
Date:	Mar/01/2013
Operating Time (hh:mm):	00:00
Client Rep:	Mike Quintana
Schlumberger Engineer:	Matt Fair/Cole Fairbrook
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 - 009574, 009958 Lead - 009570, 009667 Tail - 009614
Client Signature:	Schlumberger Signature: