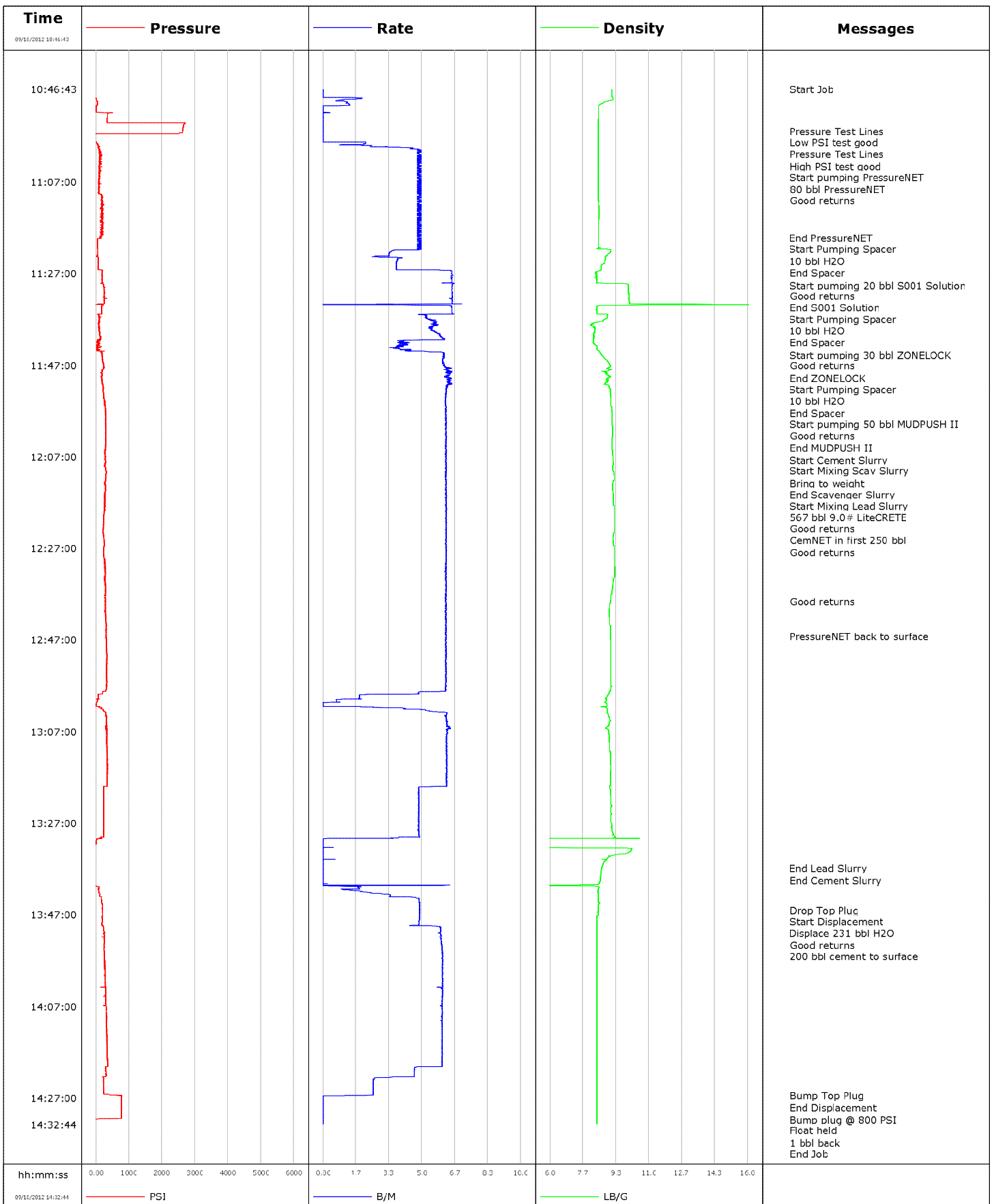
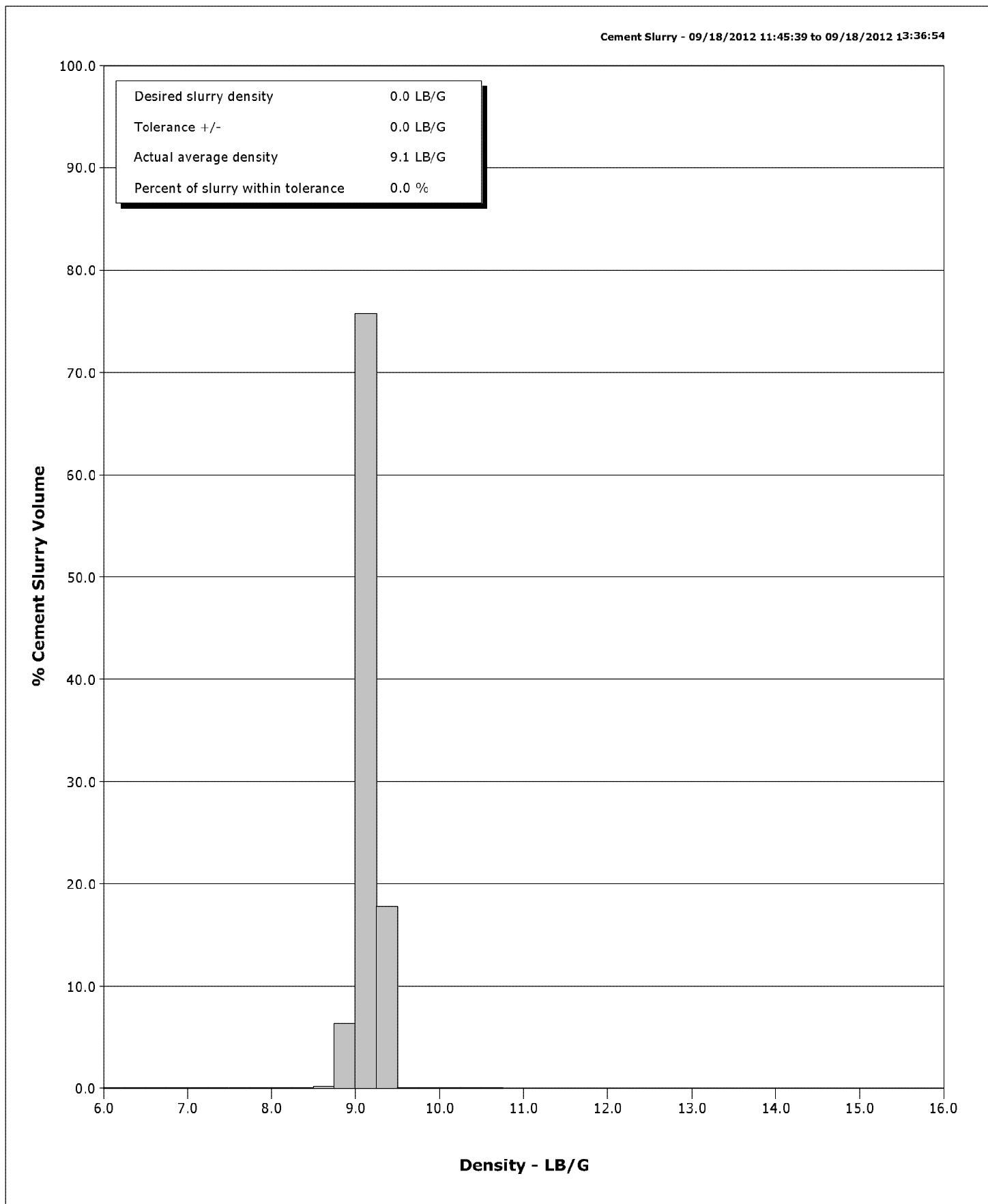


Well	SG 8515E-25	Client	Encana
Field	Story Gulch	SIR No.	C610-00565
Engineer	Matt Fair/Mike Reedy	Job Type	9 5/8" Surface
Country	United States	Job Date	09-18-2012



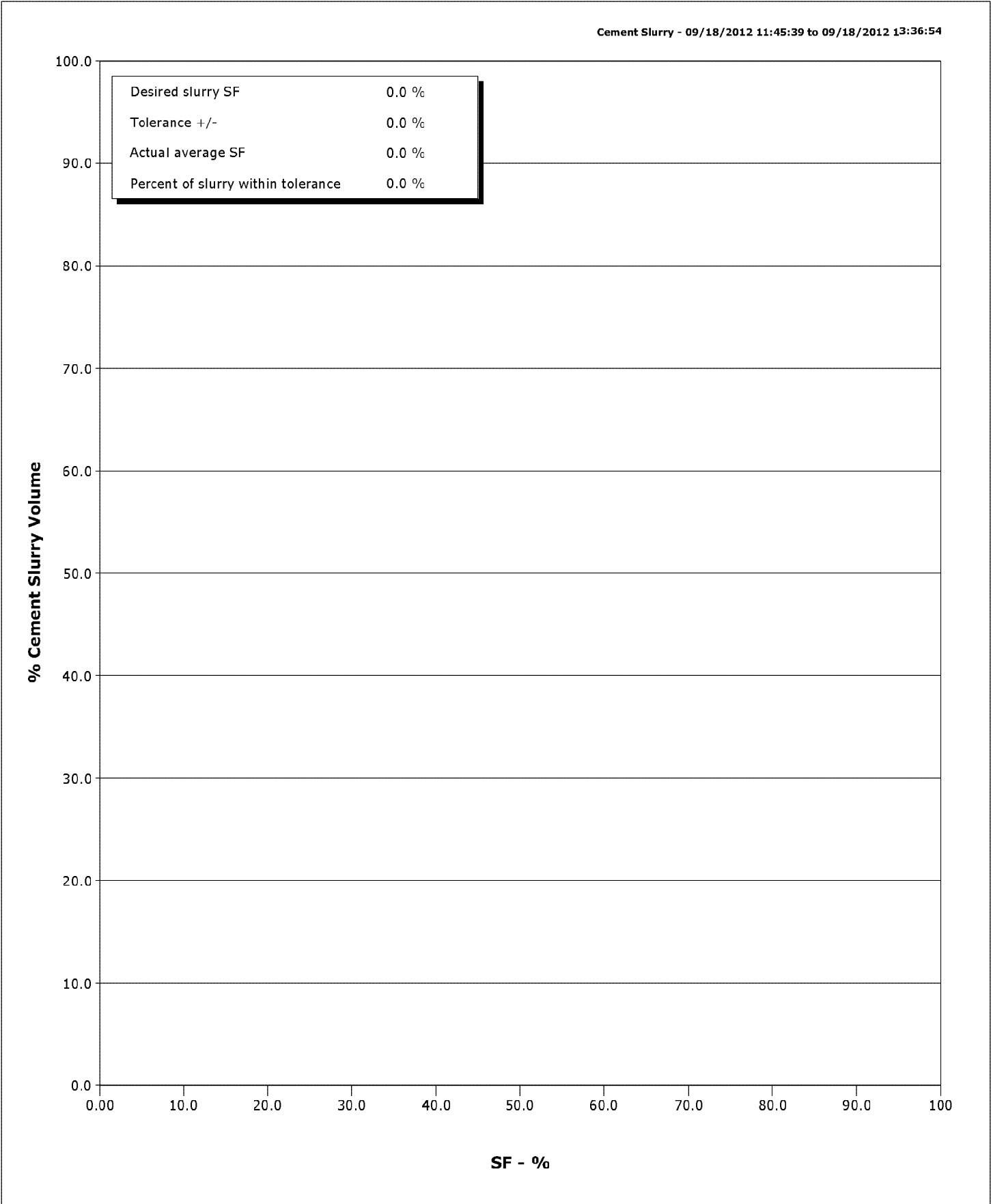
Well	SG 8515E-25	Client	Encana
Field	Story Gulch	SIR No.	C610-00565
Engineer	Matt Fair/Mike Reedy	Job Type	9 5/8" Surface
Country	United States	Job Date	09-18-2012





Cementing Qa/Qc SFM Report

Well	SG 8515E-25	Client	Encana
Field	Story Gulch	SIR No.	C610-00565
Engineer	Matt Fair/Mike Reedy	Job Type	9 5/8" Surface
Country	United States	Job Date	09-18-2012



					Customer Encana		Job Number C610-00565		
Well SG 8515E-25			Location (legal)		Schlumberger Location			Job Start Sep/18/2012	
Field Story Gulch		Formation Name/Type Shale		Deviation deg	Bit Size 14.8 in		Well MD 3035.0 ft		Well TVD 3035.0 ft
County Garfield		State/Province Colorado		BHP psi	BHST 120 degF		BHCT 96 degF		Pore Press. Gradient lb/gal
Well Master 0631304015		API/UWI							
Rig Name Patterson 306	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		3035.0	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
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
					ft	ft			
					Treat Down Casing	Displacement 231.0 bbl	Packer Type		Packer Depth ft
					Tubing Vol. bbl	Casing Vol. 234.0 bbl	Annular Vol. 386.0 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 1502 psi				Shoe Type Float			Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 3035.0 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 Sep/18/2012 08:00		Arrived on Location Sep/18/2012 08:00		Leave Location Sep/18/2012 16:00		Collar Type Float		Tail Pipe Depth ft	
						Collar Depth 2991.0 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		
09/18/2012	10:46:43	9.12	-21	0.0	0.0	0.0	Started Acquisition		
09/18/2012	10:46:48	9.12	-21	0.0	0.0	0.0	Start Job		
09/18/2012	10:49:13	9.03	17	0.7	0.8	0.8			
09/18/2012	10:51:43	8.47	5	0.0	2.2	2.2			
09/18/2012	10:54:13	8.45	2687	0.0	2.2	2.2			
09/18/2012	10:55:44	8.45	2634	0.0	2.2	2.2	Pressure Test Lines		
09/18/2012	10:55:45	8.45	2634	0.0	2.2	2.2	Low PSI test good		
09/18/2012	10:56:43	8.45	-18	0.0	2.2	2.2			
09/18/2012	10:56:46	8.45	-18	0.0	2.2	2.2	Pressure Test Lines		
09/18/2012	10:56:47	8.45	-16	0.0	2.2	2.2	High PSI test good		
09/18/2012	10:58:17	8.45	23	0.0	0.0	2.2	Start pumping PressureNET		
09/18/2012	10:58:28	8.45	26	2.2	0.3	2.6	80 bbl PressureNET		
09/18/2012	10:59:13	8.45	118	2.4	1.8	4.1			
09/18/2012	11:01:43	8.45	122	5.0	13.5	15.7			
09/18/2012	11:04:13	8.45	97	4.9	25.6	27.8			
09/18/2012	11:06:43	8.45	95	4.9	37.8	40.0			
09/18/2012	11:08:29	8.45	89	4.9	46.4	48.6	Good returns		
09/18/2012	11:09:13	8.45	86	4.8	49.9	52.2			
09/18/2012	11:11:43	8.47	160	4.9	62.1	64.3			
09/18/2012	11:14:13	8.48	167	4.9	74.3	76.5			
09/18/2012	11:16:43	8.47	179	5.0	86.4	88.6			

Well			Field		Job Start		Customer		Job Number
SG 8515E-25			Story Gulch		Sep/18/2012		Encane		C610-00565
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		
09/18/2012	11:19:13	8.47	166	4.9	0.5	100.8			
09/18/2012	11:19:26	8.47	42	4.9	1.5	101.8	Start Pumping Spacer		
09/18/2012	11:19:29	8.47	39	5.0	1.8	102.1	10 bbl H2O		
09/18/2012	11:21:12	8.47	33	4.9	10.1	110.4	End Spacer		
09/18/2012	11:21:17	8.52	41	5.0	10.6	110.8	Start pumping 20 bbl S001 Solution		
09/18/2012	11:21:43	9.01	48	5.0	2.0	112.9			
09/18/2012	11:24:13	8.79	65	3.7	10.9	121.9			
09/18/2012	11:24:27	8.78	62	3.7	11.8	122.7	Good returns		
09/18/2012	11:26:43	8.28	173	6.5	21.7	132.6			
09/18/2012	11:27:51	8.25	180	6.6	5.5	140.0	End S001 Solution		
09/18/2012	11:28:02	8.37	185	6.5	6.7	141.2	Start Pumping Spacer		
09/18/2012	11:28:03	8.37	185	6.5	6.8	141.3	10 bbl H2O		
09/18/2012	11:28:56	8.37	177	6.5	12.6	147.1	End Spacer		
09/18/2012	11:29:00	8.38	172	6.2	13.0	147.5	Start pumping 30 bbl ZONELOCK		
09/18/2012	11:29:13	9.86	196	6.6	1.1	148.9			
09/18/2012	11:29:34	9.98	231	6.5	3.4	151.2	Good returns		
09/18/2012	11:31:43	10.00	247	6.5	17.4	165.2			
09/18/2012	11:33:43	19.03	189	0.0	30.1	177.9	End ZONELOCK		
09/18/2012	11:33:45	19.87	181	0.0	0.0	177.9	Start Pumping Spacer		
09/18/2012	11:33:47	18.67	155	0.0	0.0	177.9	10 bbl H2O		
09/18/2012	11:34:13	8.38	165	6.5	2.5	180.4			
09/18/2012	11:35:37	8.37	177	6.5	11.6	189.6	End Spacer		
09/18/2012	11:35:39	8.37	162	6.5	11.8	189.8	Start pumping 50 bbl MUDPUSH II		
09/18/2012	11:36:43	8.88	95	5.2	4.1	195.5			
09/18/2012	11:38:31	8.20	107	5.5	14.1	205.5	Good returns		
09/18/2012	11:39:13	8.29	90	5.5	17.9	209.4			
09/18/2012	11:41:43	8.20	29	4.0	32.1	223.5			
09/18/2012	11:44:13	8.54	167	6.1	42.5	234.0			
09/18/2012	11:45:25	8.75	193	6.1	49.9	241.3	End MUDPUSH II		
09/18/2012	11:45:39	8.81	177	6.1	51.3	242.8	Start Cement Slurry		
09/18/2012	11:45:40	8.81	184	6.1	51.4	242.9	Start Mixing Scav Slurry		
09/18/2012	11:45:41	8.81	184	6.1	51.5	243.0	Bring to weight		
09/18/2012	11:46:34	9.00	228	6.1	4.2	248.3	End Scavenger Slurry		
09/18/2012	11:46:35	9.00	217	6.1	4.3	248.4	Start Mixing Lead Slurry		
09/18/2012	11:46:36	9.00	195	6.1	4.5	248.5	567 bbl 9.0# LiteCRETE		
09/18/2012	11:46:43	9.02	239	6.0	5.2	249.2			
09/18/2012	11:49:13	8.94	187	6.4	20.9	264.9			
09/18/2012	11:51:43	9.00	213	6.3	36.7	280.8			
09/18/2012	11:53:33	9.06	230	6.2	48.1	292.2	Good returns		
09/18/2012	11:53:44	9.07	229	6.2	49.3	293.3	CemNET in first 250 bbl		
09/18/2012	11:54:13	9.07	232	6.2	52.3	296.3			
09/18/2012	11:56:43	9.13	271	6.2	67.8	311.9			
09/18/2012	11:59:13	9.15	293	6.2	83.3	327.4			
09/18/2012	12:01:43	9.17	294	6.2	98.9	342.9			
09/18/2012	12:04:13	9.14	278	6.2	114.4	358.5			
09/18/2012	12:06:43	9.19	270	6.2	129.9	374.0			
09/18/2012	12:09:13	9.17	274	6.2	145.5	389.6			
09/18/2012	12:10:14	9.23	318	6.2	151.8	395.9	Good returns		
09/18/2012	12:11:43	9.25	297	6.2	161.0	405.1			
09/18/2012	12:14:13	9.18	276	6.2	176.6	420.6			
09/18/2012	12:16:43	9.22	255	6.2	192.1	436.2			
09/18/2012	12:19:13	9.27	241	6.2	207.7	451.8			
09/18/2012	12:21:43	9.26	224	6.2	223.3	467.3			
09/18/2012	12:24:13	9.22	233	6.2	238.8	482.9			

Well			Field		Job Start		Customer		Job Number
SG 8515E-25			Story Gulch		Sep/18/2012		Encane		C610-00565
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		
09/18/2012	12:29:13	9.26	252	6.2	270.0	514.0			
09/18/2012	12:31:43	9.29	282	6.2	285.5	529.6			
09/18/2012	12:34:13	9.21	269	6.2	301.0	545.1			
09/18/2012	12:36:43	9.13	272	6.2	316.6	560.7			
09/18/2012	12:38:34	9.06	280	6.2	328.1	572.1	Good returns		
09/18/2012	12:39:13	9.03	281	6.2	332.1	576.2			
09/18/2012	12:41:43	9.01	284	6.2	347.6	591.7			
09/18/2012	12:44:13	9.04	301	6.2	363.2	607.3			
09/18/2012	12:46:14	9.05	308	6.2	375.7	619.8	PressureNET back to surface		
09/18/2012	12:46:43	9.06	299	6.2	378.7	622.8			
09/18/2012	12:49:13	9.10	316	6.2	394.3	638.3			
09/18/2012	12:51:43	9.09	326	6.2	409.8	653.9			
09/18/2012	12:54:13	9.07	312	6.2	425.3	669.4			
09/18/2012	12:56:43	9.11	322	6.2	440.9	685.0			
09/18/2012	12:59:13	8.91	65	1.9	454.0	698.1			
09/18/2012	13:01:43	8.84	102	2.6	456.3	700.4			
09/18/2012	13:04:13	9.03	303	6.2	470.4	714.4			
09/18/2012	13:06:43	8.97	328	6.3	486.1	730.1			
09/18/2012	13:09:13	9.01	325	6.3	501.7	745.8			
09/18/2012	13:11:43	9.04	332	6.2	517.3	761.4			
09/18/2012	13:14:13	9.06	334	6.3	533.0	777.1			
09/18/2012	13:16:43	9.06	335	6.2	548.6	792.7			
09/18/2012	13:19:13	9.03	246	4.8	564.0	808.1			
09/18/2012	13:21:43	9.09	235	4.8	576.1	820.2			
09/18/2012	13:24:13	9.11	243	4.8	588.2	832.3			
09/18/2012	13:26:43	9.10	237	4.8	600.3	844.4			
09/18/2012	13:29:13	9.20	219	4.9	612.4	856.4			
09/18/2012	13:31:43	0.01	-3	0.0	617.5	861.6			
09/18/2012	13:34:13	9.04	-10	0.0	617.5	861.6			
09/18/2012	13:36:43	8.64	-11	0.0	617.5	861.6	End Lead Slurry		
09/18/2012	13:36:54	8.63	-11	0.0	617.5	861.6	End Cement Slurry		
09/18/2012	13:39:13	8.56	-11	0.0	0.0	861.6			
09/18/2012	13:41:43	8.43	83	1.6	2.2	863.8			
09/18/2012	13:44:13	8.43	159	4.8	11.4	873.0			
09/18/2012	13:45:51	8.44	194	4.9	19.4	881.0	Drop Top Plug		
09/18/2012	13:45:53	8.44	196	4.9	19.5	881.1	Displace 231 bbl H2O		
09/18/2012	13:46:16	8.44	195	4.9	21.4	883.0	Good returns		
09/18/2012	13:46:22	8.41	202	4.9	21.9	883.5	200 bbl cement to surface		
09/18/2012	13:46:43	8.44	192	4.9	23.6	885.2			
09/18/2012	13:49:13	8.38	175	4.9	35.8	897.4			
09/18/2012	13:51:43	8.37	251	6.0	50.4	912.0			
09/18/2012	13:54:13	8.37	250	6.0	65.4	927.0			
09/18/2012	13:56:43	8.37	261	6.1	80.5	942.1			
09/18/2012	13:59:13	8.37	268	6.0	95.6	957.2			
09/18/2012	14:01:43	8.37	270	6.1	110.7	972.3			
09/18/2012	14:04:13	8.37	293	6.0	125.9	987.5			
09/18/2012	14:06:43	8.37	302	6.0	141.0	1002.5			
09/18/2012	14:09:13	8.37	307	6.0	156.0	1017.6			
09/18/2012	14:11:43	8.37	317	6.1	171.1	1032.7			
09/18/2012	14:14:13	8.37	331	6.0	186.2	1047.8			
09/18/2012	14:16:43	8.37	340	6.0	201.3	1062.9			
09/18/2012	14:19:13	8.37	342	6.0	216.4	1078.0			
09/18/2012	14:21:43	8.37	298	4.6	229.3	1090.9			
09/18/2012	14:24:13	8.37	224	2.6	237.3	1098.9			

Well			Field		Job Start	Customer		Job Number
SG 8515E-25			Story Gulch		Sep/18/2012	Encane		C610-00565
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	
09/18/2012	14:26:28	8.37	747	1.7	243.0	1104.6	End Displacement	
09/18/2012	14:26:29	8.37	770	1.1	243.0	1104.6	Bump plug @ 800 PSI	
09/18/2012	14:26:43	8.37	776	0.0	243.1	1104.7		
09/18/2012	14:29:13	8.37	776	0.0	243.1	1104.7		
09/18/2012	14:31:43	8.37	-15	0.0	243.1	1104.7	Float held	
09/18/2012	14:31:48	8.37	-16	0.0	243.1	1104.7	1 bbl back	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 5.5	N2	Mud	Maximum Rate 7.0		Total Slurry 569.0	Mud 0.0	Spacer 127.8	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 2713	Final -14	Average 269	Bump Plug to 800	Breakdown	Type	Volume bbl	Density lb/gal			
Avg. N2 Percent %	Designed Slurry Volume 567.0 bbl		Displacement 230.6 bbl	Mix Water Temp 71 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/Mike Reedy			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>			
						-	-			



Service Quality Evaluation

Client:	Encana
Field:	Story Gulch
Rig:	Patterson 306
Well:	SG 8515E-25
Service Line:	Cementing
Job Type:	9 5/8" Surface

Service Order #:	
Date:	Sep/18/2012
Operating Time (hh:mm):	00:00
Client Rep:	Mike Quintana
Schlumberger Engineer:	Matt Fair/Mike Reedy
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 successfully	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 successfully	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-010297 Lead-009935, 009827
Client Signature:	Schlumberger Signature: