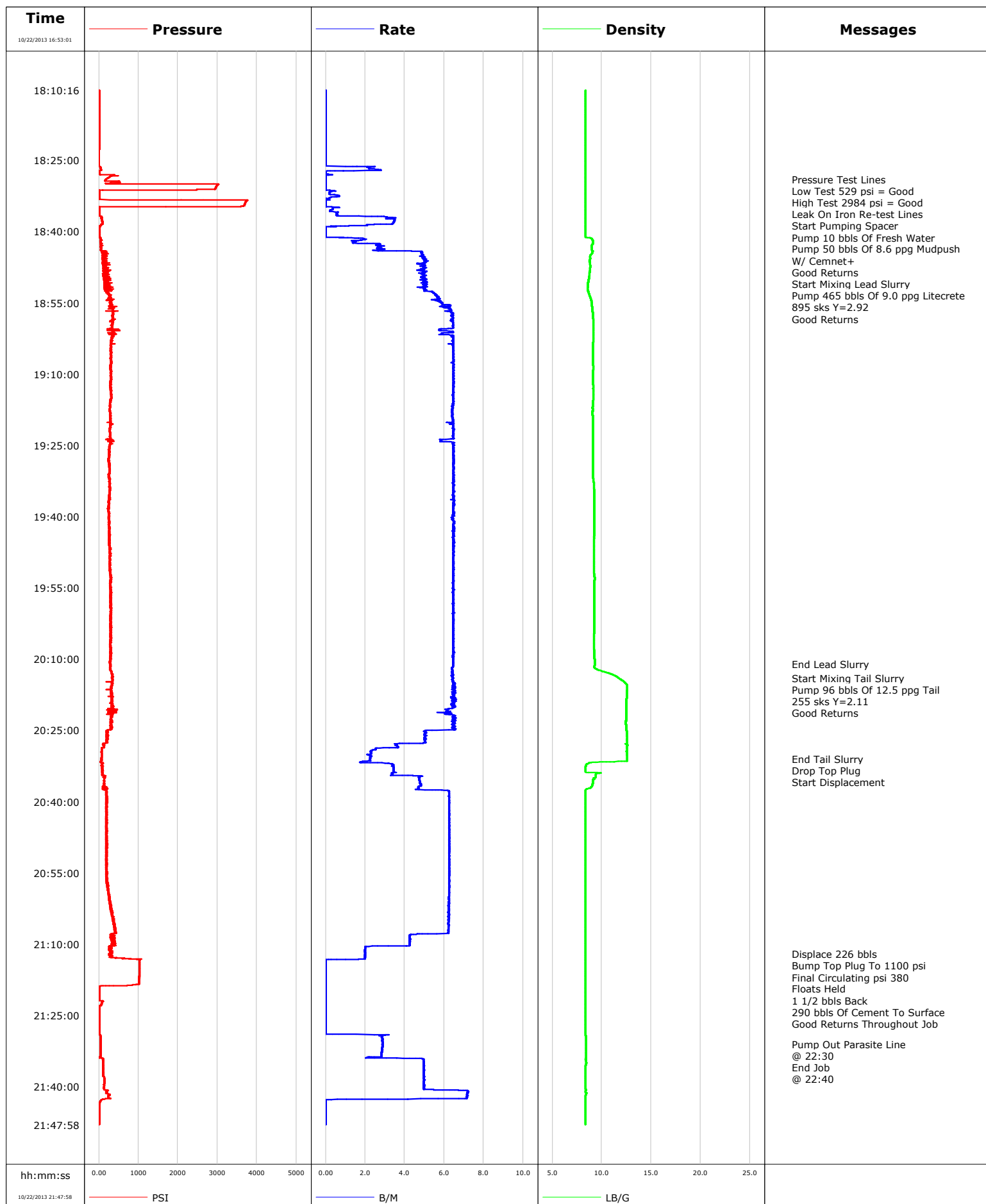


Well SG 8514D-34 E34 496
Field Story Gulch
Engineer Justin Zika
Country United States

Client Encana
SIR No.
Job Type Surface
Job Date 10-22-2013

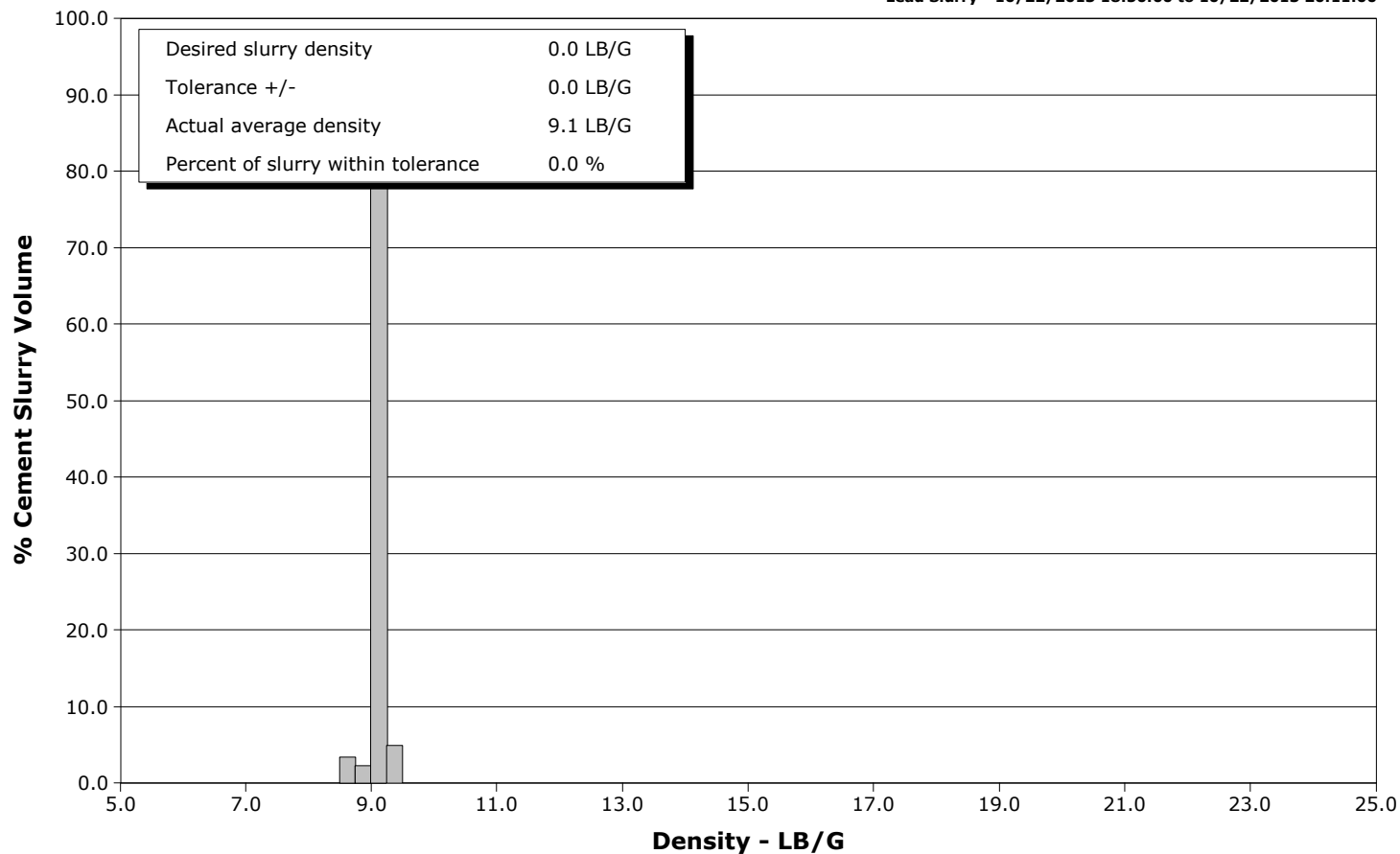


Schlumberger Cementing Qa/Qc Density Report

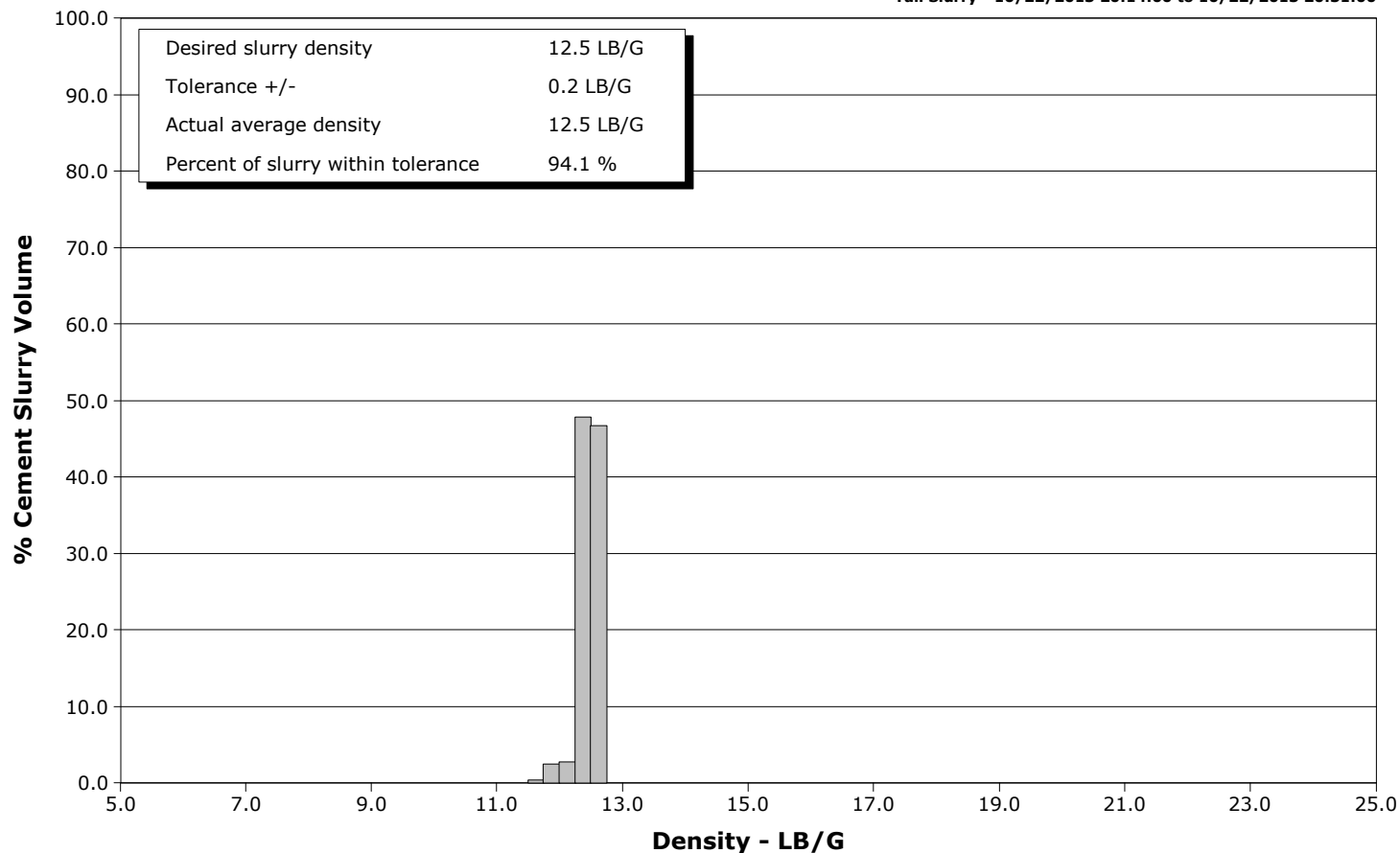
Well SG 8514D-34 E34 496
Field Story Gulch
Engineer Justin Zika
Country United States

Client Encana
SIR No.
Job Type Surface
Job Date 10-22-2013

Lead Slurry - 10/22/2013 18:50:00 to 10/22/2013 20:11:00



Tail Slurry - 10/22/2013 20:14:00 to 10/22/2013 20:31:00

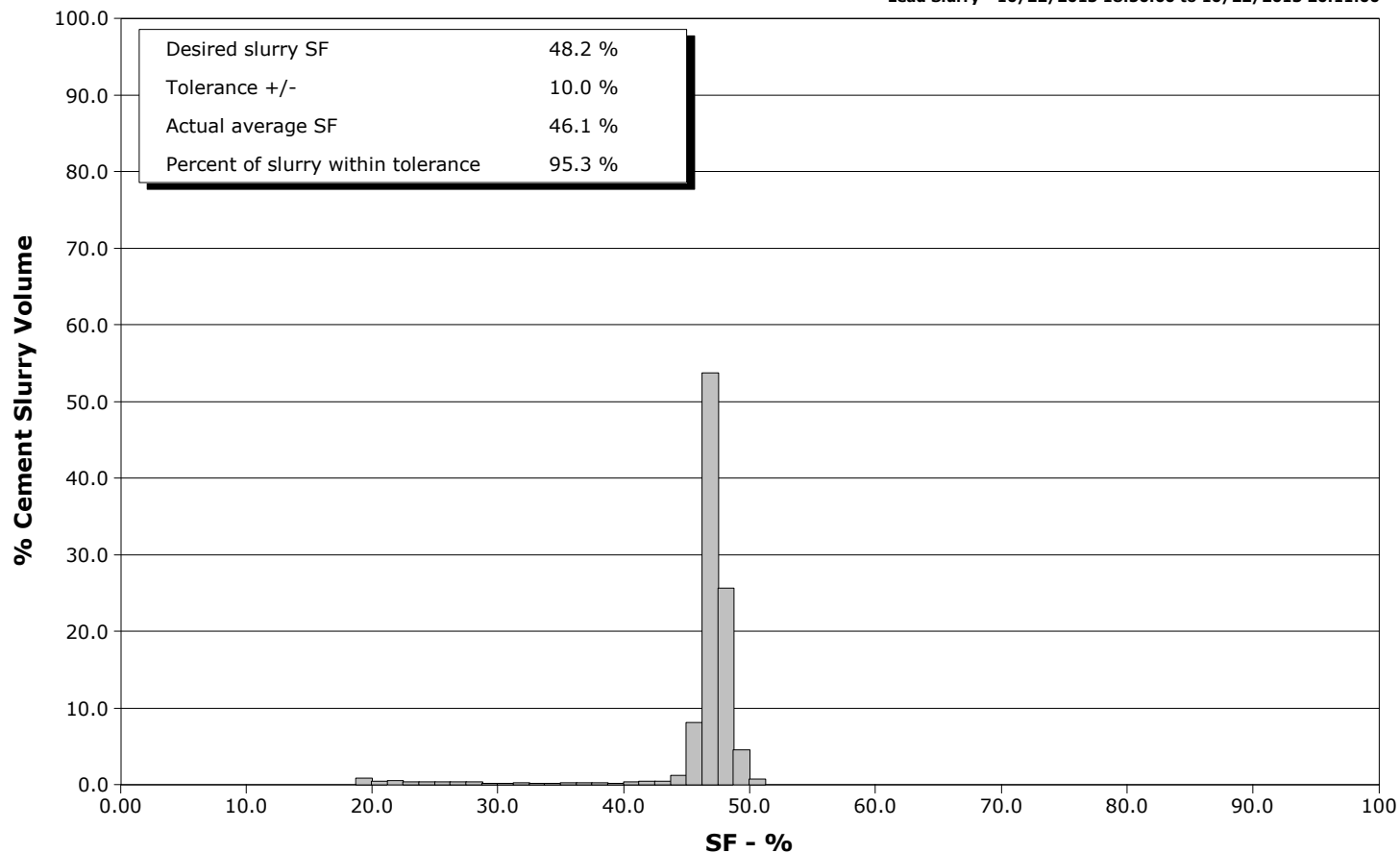


Schlumberger Cementing Qa/Qc SFM Report

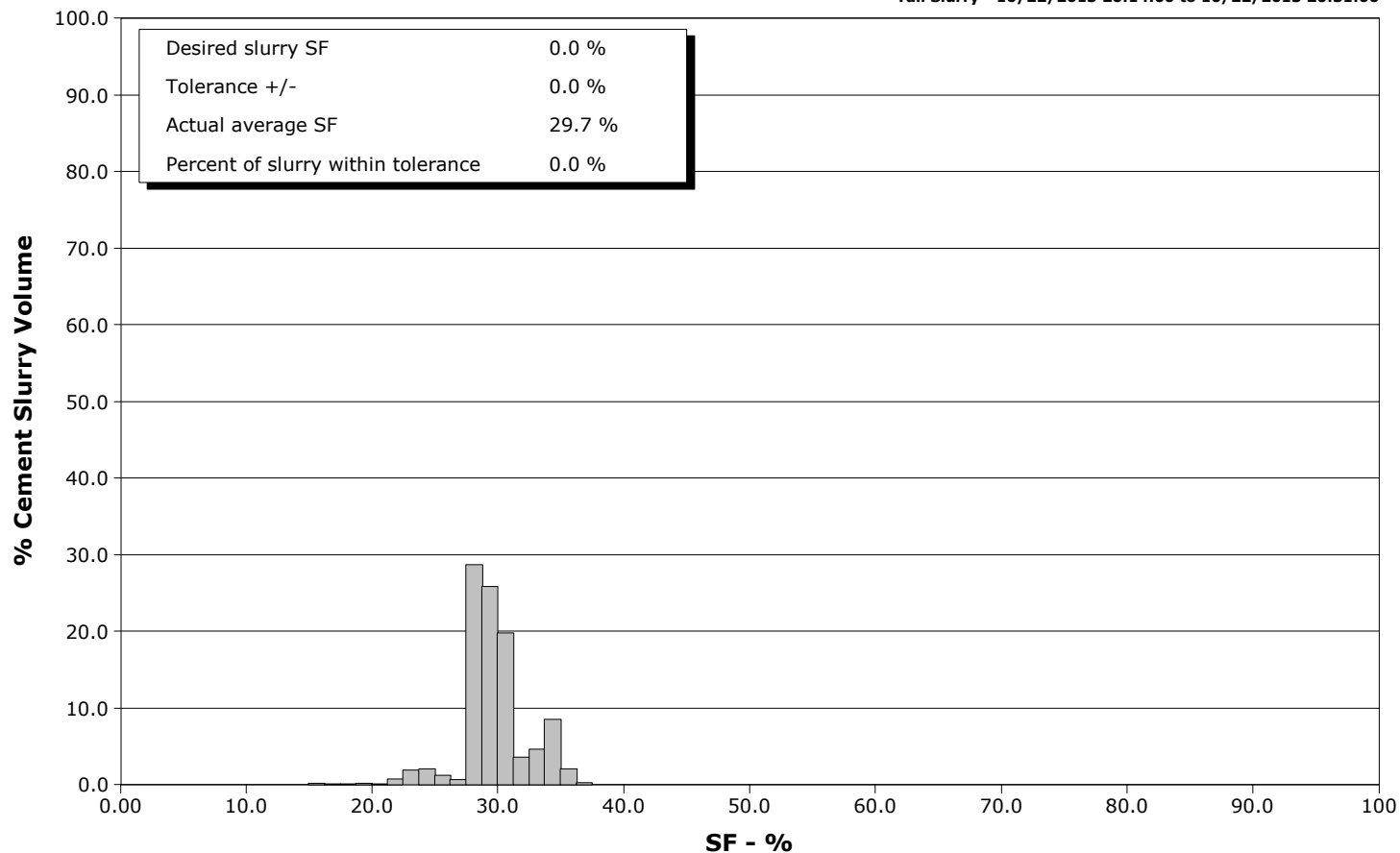
Well SG 8514D-34 E34 496
Field Story Gulch
Engineer Justin Zika
Country United States

Client Encana
SIR No.
Job Type Surface
Job Date 10-22-2013

Lead Slurry - 10/22/2013 18:50:00 to 10/22/2013 20:11:00



Tail Slurry - 10/22/2013 20:14:00 to 10/22/2013 20:31:00





Cementing Service Report

				Customer Encana			Job Number 1864621					
Well SG 8514D-34 E34 496 8514D-34 E34 496			Location (legal) Grand Junction, CO			Schlumberger Location GCO		Job Start Oct/22/2013				
Field Story Gulch		Formation Name/Type Shale			Deviation	Bit Size 14.8 in		Well MD 2964.0 ft		Well TVD 2964.0 ft		
County Garfield		State/Province Colorado			BHP	BHST 120 degF		BHCT 92 degF		Pore Press. Gradient		
Well Master 0631501100		API/UWI										
Rig Name Patterson 326		Drilled For Gas		Service Via Land		Casing/Liner						
Offshore Zone		Well Class New		Well Type Development		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread		
						2964.0	9.630	36.0	J55	8RD		
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe						
						Depth,	Size,	Weight,	Grade	Thread		
Service Line Cementing		Job Type Surface										
Max. Allowed Tub. Press 1467 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole						
Service Instructions Rig Up Hold Safety Meeting Flush Lines Pressure Test Lines Pump 10 bbls Of Fresh Water Pump 50 bbls Of 8.6 ppq Mudpush W/Cemnet+ Pump 465 bbls Of 9.0 ppq Litecrete Pump 96 bbls Of 12.5 ppq Tail Drop Top Plug Displace						Top,	Bottom,			No. of Shots	Total Interval	
						Treat Down Casing		Displacement 226.0 bbl		Packer Type		Packer Depth
						Tubing Vol.		Casing Vol. 22.0 bbl		Annular Vol. 361.0 bbl		Openhole Vol. 591.0 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 1467 psi				Shoe Type Float				Squeeze Type				
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 2964.0 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/22/2013 16:00		Arrived on Location Oct/22/2013 17:00		Leave Location Oct/23/2013 00:00		Collar Type Float				Tail Pipe Depth		
						Collar Depth 2917.0 ft				Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message						
10/22/2013	16:52:54					Started Acquisition						
10/22/2013	16:53:01	0	0.0	0.01	0.0							
10/22/2013	16:54:34	1	0.0	0.01	0.0							
10/22/2013	16:56:14	1	0.0	0.01	0.0							
10/22/2013	16:57:54	1	0.0	0.01	0.0							
10/22/2013	16:59:34	1	0.0	0.01	0.0							
10/22/2013	17:01:14	0	0.0	0.01	0.0							
10/22/2013	17:02:54	1	0.0	0.01	0.0							
10/22/2013	17:04:34	0	0.0	0.01	0.0							
10/22/2013	17:06:14	0	0.0	0.01	0.0							
10/22/2013	17:07:54	1	0.0	0.01	0.0							
10/22/2013	17:09:34	-0	0.0	0.01	0.0							
10/22/2013	17:11:14	41	1.2	8.36	4.2							
10/22/2013	17:12:54	92	0.0	8.36	7.2							
10/22/2013	17:14:34	105	3.5	8.36	9.8							
10/22/2013	17:16:14	10	0.0	8.36	12.0							
10/22/2013	17:17:54	21	0.0	8.36	12.0							
10/22/2013	17:19:34	35	2.0	8.36	15.3							
10/22/2013	17:21:14	22	1.9	8.36	18.6							
10/22/2013	17:22:54	1	0.0	8.36	19.1							
10/22/2013	17:24:34	2	0.0	8.36	19.1							

Well			Field		Job Start		Customer		Job Number	
SG 8514D-34 E34 496 8514D-34 E34 496			Story Gulch		Oct/22/2013		Encana		1864621	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/22/2013	17:27:54	1	0.0	8.36	19.1					
10/22/2013	17:29:34	2	0.0	8.36	19.1					
10/22/2013	17:31:14	1	0.0	8.36	19.1					
10/22/2013	17:32:54	2	0.0	8.36	19.1					
10/22/2013	17:34:34	2	0.0	8.36	19.1					
10/22/2013	17:36:14	2	0.0	8.36	19.1					
10/22/2013	17:37:54	1	0.0	8.36	19.1					
10/22/2013	17:39:34	1	0.0	8.36	19.1					
10/22/2013	17:41:14	2	0.0	8.36	19.1					
10/22/2013	17:42:54	1	0.0	8.36	19.1					
10/22/2013	17:44:34	1	0.0	8.36	19.1					
10/22/2013	17:46:14	2	0.0	8.36	19.1					
10/22/2013	17:47:54	1	0.0	8.36	19.1					
10/22/2013	17:49:34	1	0.0	8.36	19.1					
10/22/2013	17:51:14	1	0.0	8.36	19.1					
10/22/2013	17:52:54	1	0.0	8.36	19.1					
10/22/2013	17:54:34	2	0.0	8.36	19.1					
10/22/2013	17:56:14	1	0.0	8.36	19.1					
10/22/2013	17:57:54	1	0.0	8.36	19.1					
10/22/2013	17:59:34	2	0.0	8.36	19.1					
10/22/2013	18:00:00					Start Job				
10/22/2013	18:00:00					Rig Up				
10/22/2013	18:00:00					Hold Safety Meeting				
10/22/2013	18:00:00					Flush Lines				
10/22/2013	18:00:00	1	0.0	8.36	19.1					
10/22/2013	18:01:14	1	0.0	8.36	19.1					
10/22/2013	18:02:54	1	0.0	8.36	19.1					
10/22/2013	18:04:34	1	0.0	8.36	19.1					
10/22/2013	18:06:14	1	0.0	8.37	19.1					
10/22/2013	18:07:54	1	0.0	8.37	19.1					
10/22/2013	18:09:34	1	0.0	8.36	19.1					
10/22/2013	18:11:14	2	0.0	8.37	19.1					
10/22/2013	18:12:54	2	0.0	8.37	19.1					
10/22/2013	18:14:34	1	0.0	8.37	19.1					
10/22/2013	18:16:14	2	0.0	8.37	19.1					
10/22/2013	18:17:54	2	0.0	8.37	19.1					
10/22/2013	18:19:34	1	0.0	8.37	19.1					
10/22/2013	18:21:14	1	0.0	8.37	19.1					
10/22/2013	18:22:54	-3	0.0	8.37	19.1					
10/22/2013	18:24:34	-3	0.0	8.37	19.1					
10/22/2013	18:26:14	-4	0.0	8.37	19.1					
10/22/2013	18:27:54	10	0.0	8.36	21.3					
10/22/2013	18:29:00					Pressure Test Lines				
10/22/2013	18:29:00					Low Test 529 psi = Good				
10/22/2013	18:29:00					High Test 2984 psi = Good				
10/22/2013	18:29:00					Leak On Iron Re-test Lines				
10/22/2013	18:29:00	187	0.0	8.36	21.3					
10/22/2013	18:29:34	524	0.0	8.36	21.3					
10/22/2013	18:31:14	2477	0.0	8.36	21.3					
10/22/2013	18:32:54	7	0.2	8.36	21.9					
10/22/2013	18:33:00					Start Pumping Spacer				
10/22/2013	18:33:00					Pump 10 bbls Of Fresh Water				
10/22/2013	18:33:00	7	0.2	8.36	21.9					
10/22/2013	18:34:34	3677	0.0	8.36	21.9					

Well			Field		Job Start		Customer		Job Number	
SG 8514D-34 E34 496 8514D-34 E34 496			Story Gulch		Oct/22/2013		Encana		1864621	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/22/2013	18:37:00					Pump 50 bbls Of 8.6 ppg Mudpush				
10/22/2013	18:37:00					W/ Cemnet+				
10/22/2013	18:37:00					Good Returns				
10/22/2013	18:37:00	63	3.1	8.36	23.4					
10/22/2013	18:37:54	87	3.5	8.36	26.5					
10/22/2013	18:39:34	18	0.0	8.36	29.3					
10/22/2013	18:41:14	29	0.8	8.39	29.3					
10/22/2013	18:42:54	61	2.6	8.99	32.3					
10/22/2013	18:44:34	80	4.9	9.03	37.9					
10/22/2013	18:46:14	195	5.1	8.78	46.1					
10/22/2013	18:47:54	119	5.0	8.80	54.4					
10/22/2013	18:49:34	144	4.8	8.72	62.6					
10/22/2013	18:50:00					Start Mixing Lead Slurry				
10/22/2013	18:50:00	157	5.0	8.69	64.8					
10/22/2013	18:51:00					Pump 465 bbls Of 9.0 ppg Litecrete				
10/22/2013	18:51:00					895 sks Y=2.92				
10/22/2013	18:51:00					Good Returns				
10/22/2013	18:51:00	148	5.0	8.60	69.8					
10/22/2013	18:51:14	144	4.9	8.60	71.0					
10/22/2013	18:52:54	231	5.4	8.66	79.4					
10/22/2013	18:54:34	320	5.7	8.93	88.8					
10/22/2013	18:56:14	355	6.2	9.04	98.8					
10/22/2013	18:57:54	342	6.4	9.11	109.4					
10/22/2013	18:59:34	340	6.4	9.12	120.1					
10/22/2013	19:01:14	350	6.4	9.15	130.5					
10/22/2013	19:02:54	308	6.5	9.13	141.0					
10/22/2013	19:04:34	301	6.5	9.10	151.7					
10/22/2013	19:06:14	308	6.5	9.09	162.5					
10/22/2013	19:07:54	322	6.5	9.11	173.3					
10/22/2013	19:09:34	316	6.5	9.11	184.1					
10/22/2013	19:11:14	303	6.5	9.10	194.8					
10/22/2013	19:12:54	288	6.5	9.12	205.6					
10/22/2013	19:14:34	312	6.5	9.14	216.4					
10/22/2013	19:16:14	279	6.5	9.09	227.1					
10/22/2013	19:17:54	267	6.4	9.07	237.8					
10/22/2013	19:19:34	291	6.5	9.08	248.5					
10/22/2013	19:21:14	297	6.5	9.09	259.2					
10/22/2013	19:22:54	291	6.5	9.08	270.0					
10/22/2013	19:24:34	288	6.5	9.08	280.4					
10/22/2013	19:26:14	258	6.5	9.09	291.2					
10/22/2013	19:27:54	232	6.5	9.11	302.0					
10/22/2013	19:29:34	256	6.5	9.10	312.8					
10/22/2013	19:31:14	253	6.5	9.11	323.6					
10/22/2013	19:32:54	279	6.5	9.18	334.3					
10/22/2013	19:34:34	279	6.4	9.22	345.1					
10/22/2013	19:36:14	261	6.5	9.23	355.9					
10/22/2013	19:37:54	230	6.5	9.22	366.7					
10/22/2013	19:39:34	252	6.5	9.22	377.4					
10/22/2013	19:41:14	255	6.5	9.23	388.2					
10/22/2013	19:42:54	271	6.5	9.22	399.0					
10/22/2013	19:44:34	258	6.4	9.22	409.7					
10/22/2013	19:46:14	276	6.5	9.20	420.5					
10/22/2013	19:47:54	280	6.4	9.18	431.3					
10/22/2013	19:49:34	268	6.5	9.17	442.1					

Well SG 8514D-34 E34 496 8514D-34 E34 496			Field Story Gulch		Job Start Oct/22/2013		Customer Encana		Job Number 1864621	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/22/2013	19:52:54	308	6.4	9.27	463.6					
10/22/2013	19:54:34	290	6.5	9.25	474.4					
10/22/2013	19:56:14	305	6.5	9.23	485.1					
10/22/2013	19:57:54	302	6.4	9.23	495.9					
10/22/2013	19:59:34	309	6.5	9.23	506.6					
10/22/2013	20:01:14	308	6.5	9.23	517.4					
10/22/2013	20:02:54	286	6.4	9.23	528.2					
10/22/2013	20:04:34	294	6.5	9.22	538.9					
10/22/2013	20:06:14	302	6.5	9.20	549.7					
10/22/2013	20:07:54	319	6.5	9.21	560.5					
10/22/2013	20:09:34	295	6.4	9.26	571.2					
10/22/2013	20:11:00					End Lead Slurry				
10/22/2013	20:11:00	270	6.4	9.29	580.5					
10/22/2013	20:11:14	293	6.4	9.28	582.0					
10/22/2013	20:12:54	313	6.4	10.62	592.7					
10/22/2013	20:14:00					Start Mixing Tail Slurry				
10/22/2013	20:14:00					Pump 96 bbls Of 12.5 ppg Tail				
10/22/2013	20:14:00					255 sks Y=2.11				
10/22/2013	20:14:00					Good Returns				
10/22/2013	20:14:00	331	6.5	11.71	599.7					
10/22/2013	20:14:34	336	6.4	12.14	603.4					
10/22/2013	20:16:14	330	6.5	12.56	614.2					
10/22/2013	20:17:54	297	6.5	12.50	625.0					
10/22/2013	20:19:34	338	6.4	12.48	635.8					
10/22/2013	20:21:14	359	6.1	12.47	646.3					
10/22/2013	20:22:54	334	6.6	12.45	656.9					
10/22/2013	20:24:34	318	6.4	12.49	667.7					
10/22/2013	20:26:14	207	5.0	12.55	676.7					
10/22/2013	20:27:54	133	3.6	12.46	684.8					
10/22/2013	20:29:34	61	2.3	12.54	689.8					
10/22/2013	20:31:00					End Tail Slurry				
10/22/2013	20:31:00					Drop Top Plug				
10/22/2013	20:31:00					Start Displacement				
10/22/2013	20:31:00	61	2.2	12.57	693.0					
10/22/2013	20:31:14	62	2.2	12.57	693.5					
10/22/2013	20:32:54	76	3.4	8.37	698.3					
10/22/2013	20:34:34	163	4.8	9.38	704.1					
10/22/2013	20:36:14	121	4.8	9.08	712.0					
10/22/2013	20:37:54	202	6.2	8.36	720.5					
10/22/2013	20:39:34	191	6.2	8.36	730.9					
10/22/2013	20:41:14	194	6.3	8.36	741.3					
10/22/2013	20:42:54	177	6.2	8.36	751.7					
10/22/2013	20:44:34	191	6.2	8.36	762.1					
10/22/2013	20:46:14	187	6.3	8.36	772.5					
10/22/2013	20:47:54	179	6.2	8.36	782.9					
10/22/2013	20:49:34	189	6.2	8.36	793.3					
10/22/2013	20:51:14	191	6.3	8.36	803.7					
10/22/2013	20:52:54	201	6.2	8.36	814.1					
10/22/2013	20:54:34	218	6.3	8.36	824.6					
10/22/2013	20:56:14	195	6.2	8.36	835.0					
10/22/2013	20:57:54	225	6.2	8.36	845.4					
10/22/2013	20:59:34	238	6.2	8.36	855.8					
10/22/2013	21:01:14	264	6.2	8.36	866.1					
10/22/2013	21:02:54	308	6.2	8.36	876.5					

Well			Field		Job Start	Customer	Job Number
SG 8514D-34 E34 496 8514D-34 E34 496			Story Gulch		Oct/22/2013	Encana	1864621
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/22/2013	21:06:14	404	6.2	8.36	897.2		
10/22/2013	21:07:54	304	4.5	8.36	907.4		
10/22/2013	21:09:34	326	4.3	8.36	914.5		
10/22/2013	21:11:14	259	2.0	8.36	919.7		
10/22/2013	21:12:00					Displace 226 bbls	
10/22/2013	21:12:00					Bump Top Plug To 1100 psi	
10/22/2013	21:12:00					Final Circulating psi 380	
10/22/2013	21:12:00					Floats Held	
10/22/2013	21:12:00					1 1/2 bbls Back	
10/22/2013	21:12:00					290 bbls Of Cement To Surface	
10/22/2013	21:12:00					Good Returns Throughout Job	
10/22/2013	21:12:00	272	2.0	8.36	921.3		
10/22/2013	21:12:54	423	2.0	8.36	923.0		
10/22/2013	21:14:34	1020	0.0	8.36	923.6		
10/22/2013	21:16:14	1018	0.0	8.36	923.6		
10/22/2013	21:17:54	1017	0.0	8.37	923.6		
10/22/2013	21:19:34	7	0.0	8.37	923.6		
10/22/2013	21:21:14	7	0.0	8.37	923.6		
10/22/2013	21:22:54	57	0.0	8.37	923.6		
10/22/2013	21:24:34	4	0.0	8.37	923.6		
10/22/2013	21:26:14	4	0.0	8.37	923.6		
10/22/2013	21:27:54	4	0.0	8.37	923.6		
10/22/2013	21:29:34	39	2.8	8.41	925.3		
10/22/2013	21:30:57					Pump Out Parasite Line	
10/22/2013	21:30:57	39	2.9	8.39	929.3		
10/22/2013	21:30:58					@ 22:30	
10/22/2013	21:30:58					End Job	
10/22/2013	21:30:58	39	2.9	8.39	929.3		
10/22/2013	21:30:59					@ 22:40	
10/22/2013	21:30:59	39	2.9	8.39	929.4		
10/22/2013	21:31:14	39	2.9	8.39	930.1		
10/22/2013	21:32:54	38	2.8	8.38	934.9		
10/22/2013	21:34:34	107	4.9	8.39	940.7		
10/22/2013	21:36:14	107	5.0	8.37	949.0		
10/22/2013	21:37:54	129	5.0	8.37	957.2		
10/22/2013	21:39:34	128	4.9	8.36	965.5		
10/22/2013	21:41:14	193	7.2	8.40	975.0		
10/22/2013	21:42:54	45	0.0	8.37	984.7		
10/22/2013	21:44:34	7	0.0	8.37	984.7		
10/22/2013	21:46:14	5	0.0	8.37	984.7		

Well SG 8514D-34 E34 496 8514D-34 E34 496	Field Story Gulch	Job Start Oct/22/2013	Customer Encana	Job Number 1864621
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Post Job Summary

Average Pump Rates,					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry 561.0	Mud	Spacer 60.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3000	Final 380	Average	Bump Plug to 1100	Breakdown	Type	Volume		Density
Avg. N2 Percent		Designed Slurry Volume 561.0 bbl		Displacement 226.0 bbl	Mix Water Temp 51 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 290.0 bbl	
						Washed Thru Perfs <input type="checkbox"/>	To	
Customer or Authorized Representative Norman McCreary			Schlumberger Supervisor Justin Zika			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	