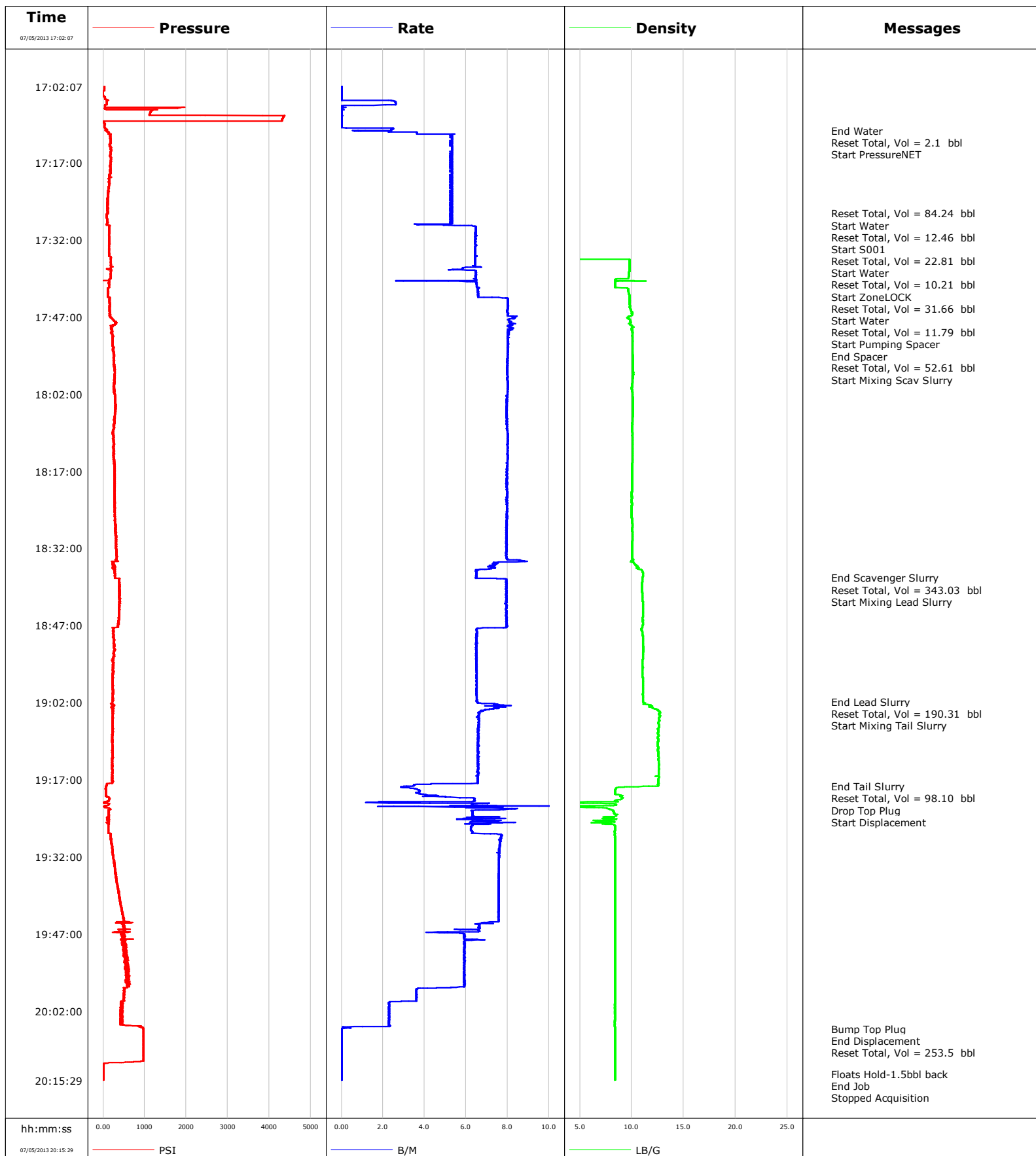


Well SGU 8502C-23
Field Wild Cat
Engineer Michael Simon
Country United States

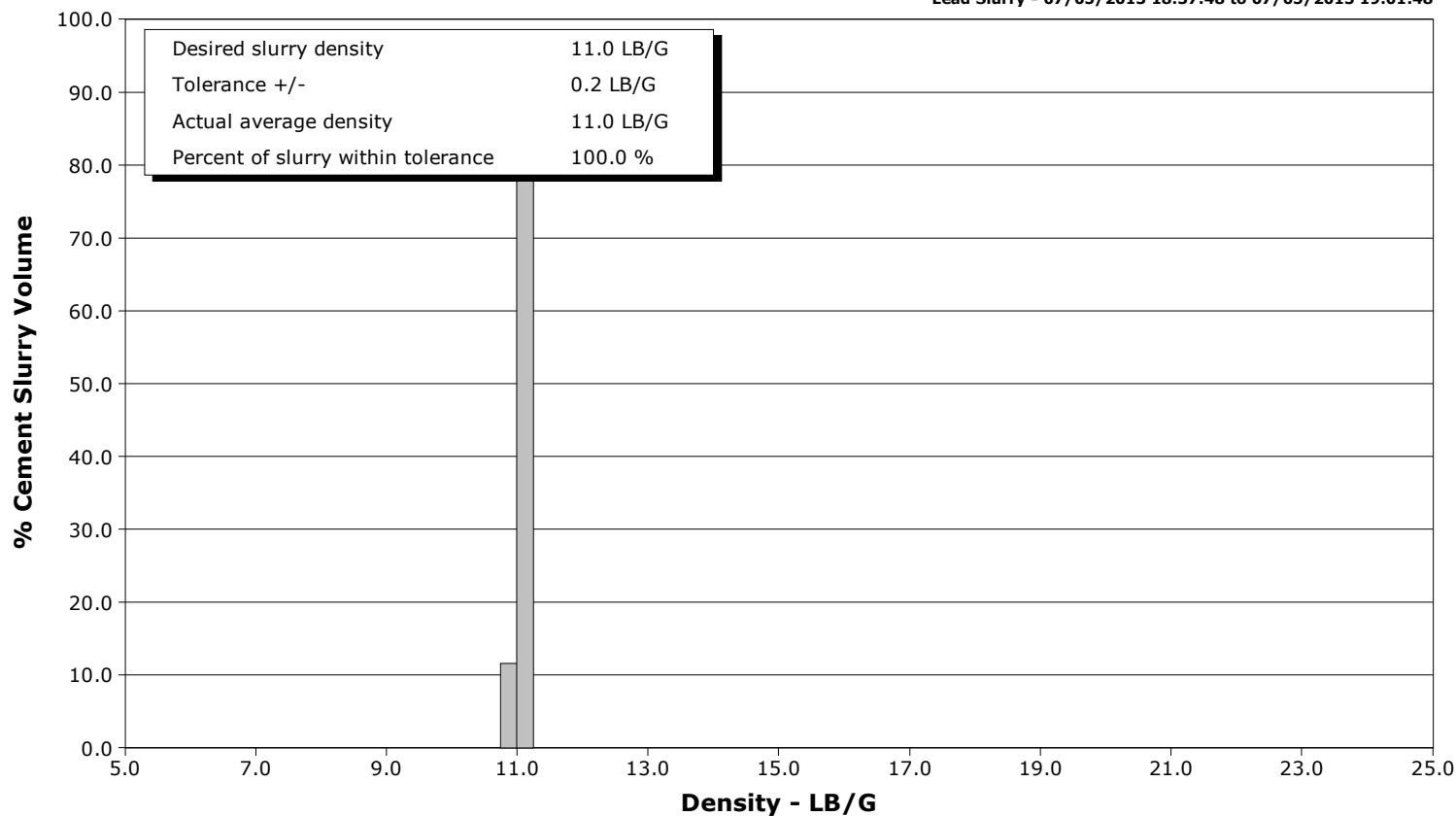
Client Encana
SIR No. CAIO-00152
Job Type Surface
Job Date 07-05-2013



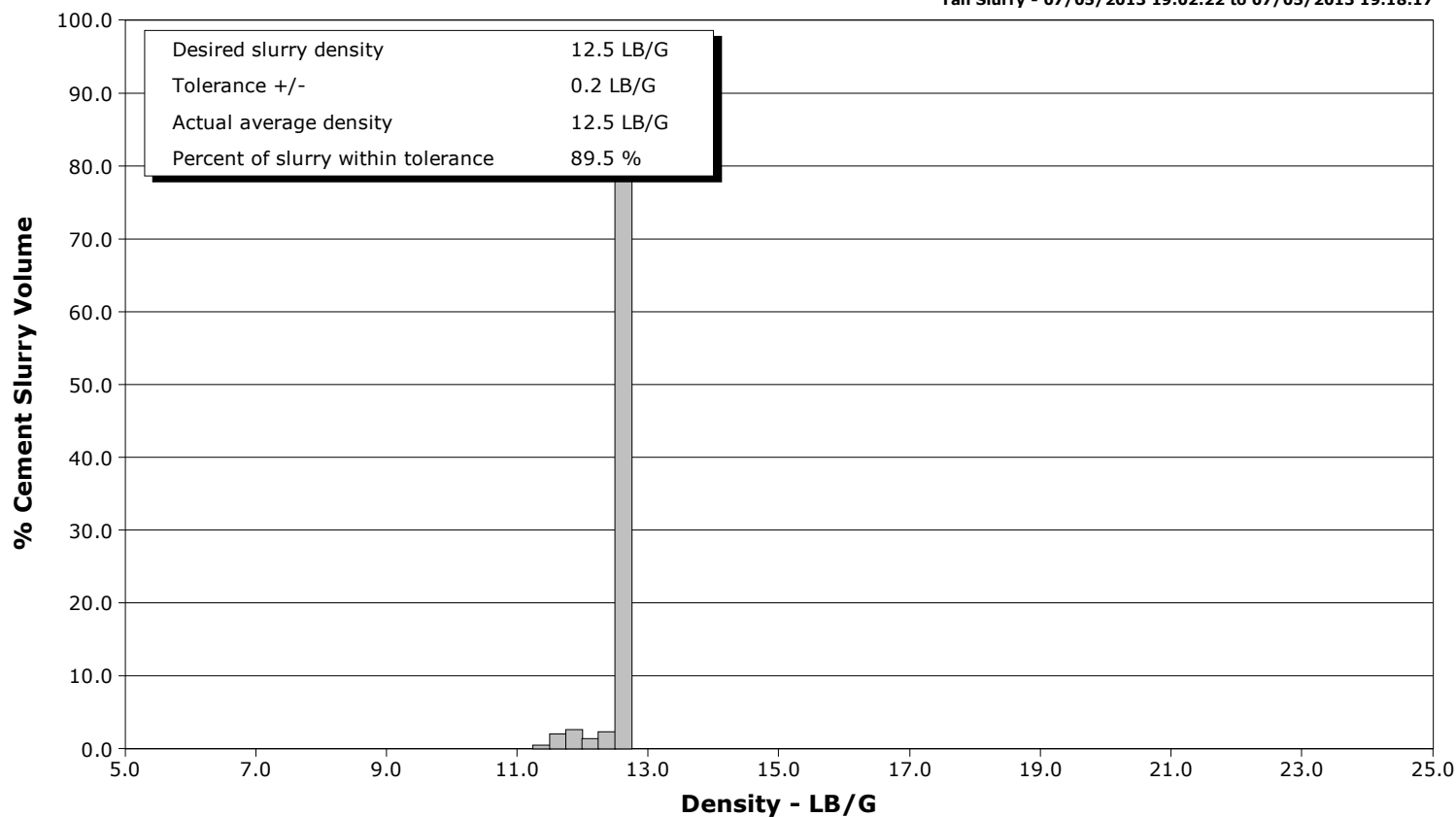
Well SGU 8502C-23
Field Wild Cat
Engineer Michael Simon
Country United States

Client Encana
SIR No. CAIO-00152
Job Type Surface
Job Date 07-05-2013

Lead Slurry - 07/05/2013 18:37:48 to 07/05/2013 19:01:48



Tail Slurry - 07/05/2013 19:02:22 to 07/05/2013 19:18:17





Cementing Service Report

					Customer Encana			Job Number CAIO-00152							
Well SGU 8502C-23 8502C-23				Location (legal) Grand Junction			Schlumberger Location Rock Springs			Job Start Jul/05/2013					
Field Wild Cat		Formation Name/Type Shale			Deviation		Bit Size 14.8 in		Well MD 3355.5 ft		Well TVD 3329.0 ft				
County Garfield		State/Province Colorado			BHP		BHST 125 degF		BHCT 97 degF		Pore Press. Gradient				
Well Master 0631465744		API/UWI													
Rig Name Patterson 330		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	
						3329.0		8.630		36.0		K55		8RD	
Drilling Fluid Type		Max. Density 8.90 lb/gal		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type Surface													
Max. Allowed Tub. Press 4000 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole									
Service Instructions						Top,		Bottom,				No. of Shots		Total Interval	
														Diameter	
Treat Down Casing				Displacement 253.5 bbl				Packer Type				Packer Depth			
Tubing Vol.				Casing Vol. 257.3 bbl				Annular Vol. 421.0 bbl				Openhole Vol. 696.0 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 1647 psi						Shoe Type Float				Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 3329.0 ft				Tool Type					
No. Centralizers 23		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth					
Cement Head Type Double						Stage Tool Depth				Tail Pipe Size					
Job Scheduled For Jul/05/2013		Arrived on Location Jul/05/2013		Leave Location Jul/05/2013		Collar Type Float				Tail Pipe Depth					
						Collar Depth 3283.6 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message								
07/05/2013	15:46:38						Started Acquisition								
07/05/2013	17:01:51						Start Job								
07/05/2013	17:02:00						Start Pumping Water								
07/05/2013	17:02:04						Pressure Test Lines								
07/05/2013	17:02:07	33	0.0	0.00	0.0	0.0									
07/05/2013	17:04:38	41	0.0	0.00	0.0	0.0									
07/05/2013	17:07:38	1119	0.0	0.00	2.4	2.4									
07/05/2013	17:10:38	93	2.4	0.00	3.4	3.4									
07/05/2013	17:10:42						End Water								
07/05/2013	17:10:42	102	2.4	0.00	3.5	3.5									
07/05/2013	17:10:43						Reset Total, Vol = 2.1 bbl								
07/05/2013	17:10:43	74	2.0	0.00	3.5	3.5									
07/05/2013	17:10:58						Start PressureNET								
07/05/2013	17:10:58	122	2.3	0.00	0.4	0.4									
07/05/2013	17:13:38	162	5.3	0.00	13.7	13.7									
07/05/2013	17:16:38	187	5.2	0.00	29.7	29.7									
07/05/2013	17:19:38	147	5.3	0.00	45.6	45.6									
07/05/2013	17:22:38	120	5.3	0.00	61.6	61.6									
07/05/2013	17:25:38	114	5.2	0.00	77.5	77.5									
07/05/2013	17:26:52						Reset Total, Vol = 84.24 bbl								
07/05/2013	17:26:52	104	5.3	0.00	84.1	84.1									

Well			Field		Job Start	Customer	Job Number
SGU 8502C-23 8502C-23			Wild Cat		Jul/05/2013	Encana	CAIO-00152
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
07/05/2013	17:26:53	103	5.3	0.00	84.2	84.2	
07/05/2013	17:28:38	104	5.3	0.00	9.2	9.2	
07/05/2013	17:29:16						Reset Total, Vol = 12.46 bbl
07/05/2013	17:29:16	166	6.3	0.00	12.5	12.5	
07/05/2013	17:29:27						Start S001
07/05/2013	17:29:27	148	6.5	0.00	1.2	1.2	
07/05/2013	17:31:38	147	6.5	0.00	15.3	15.3	
07/05/2013	17:32:48						Reset Total, Vol = 22.81 bbl
07/05/2013	17:32:48	145	6.4	0.00	22.8	22.8	
07/05/2013	17:33:00						Start Water
07/05/2013	17:33:00	142	6.5	0.00	1.3	1.3	
07/05/2013	17:34:23						Reset Total, Vol = 10.21 bbl
07/05/2013	17:34:23	142	6.4	0.00	10.2	10.2	
07/05/2013	17:34:38	142	6.4	0.00	1.6	1.6	
07/05/2013	17:34:41						Start ZoneLOCK
07/05/2013	17:34:41	146	6.4	0.00	1.9	1.9	
07/05/2013	17:37:38	165	5.8	9.77	20.8	20.8	
07/05/2013	17:39:21						Reset Total, Vol = 31.66 bbl
07/05/2013	17:39:21	183	6.5	9.70	31.7	31.7	
07/05/2013	17:39:37						Start Water
07/05/2013	17:39:37	162	6.4	8.50	1.7	1.7	
07/05/2013	17:40:38	134	6.5	8.41	8.0	8.0	
07/05/2013	17:41:13						Reset Total, Vol = 11.79 bbl
07/05/2013	17:41:13	148	6.5	8.41	11.8	11.8	
07/05/2013	17:41:16						Start Pumping Spacer
07/05/2013	17:41:16	139	6.5	8.40	0.3	0.3	
07/05/2013	17:43:38	155	8.0	9.79	16.5	16.5	
07/05/2013	17:46:38	160	8.0	10.01	40.5	40.5	
07/05/2013	17:49:15						End Spacer
07/05/2013	17:49:15	207	8.1	10.00	61.8	61.8	
07/05/2013	17:49:21						Reset Total, Vol = 52.61 bbl
07/05/2013	17:49:21	203	8.1	9.99	62.6	62.6	
07/05/2013	17:49:28						Start Mixing Scav Slurry
07/05/2013	17:49:28	208	8.1	10.07	0.9	0.9	
07/05/2013	17:49:38	211	8.0	10.05	2.3	2.3	
07/05/2013	17:52:38	226	8.0	10.09	26.3	26.3	
07/05/2013	17:55:38	261	8.0	10.11	50.3	50.3	
07/05/2013	17:58:38	267	8.0	10.13	74.3	74.3	
07/05/2013	18:01:38	261	8.0	10.06	98.3	98.3	
07/05/2013	18:04:38	290	8.0	10.12	122.2	122.2	
07/05/2013	18:07:38	274	8.0	10.05	146.0	146.0	
07/05/2013	18:10:38	237	8.0	10.07	170.0	170.0	
07/05/2013	18:13:38	259	8.0	10.07	194.0	194.0	
07/05/2013	18:16:38	282	8.0	10.04	217.9	217.9	
07/05/2013	18:19:38	268	8.0	10.02	241.8	241.8	
07/05/2013	18:22:38	270	8.0	9.99	265.7	265.7	
07/05/2013	18:25:38	284	8.0	9.98	289.6	289.6	
07/05/2013	18:28:38	304	8.0	10.04	313.5	313.5	
07/05/2013	18:31:38	309	8.0	10.01	337.3	337.3	
07/05/2013	18:34:38	222	8.0	9.98	361.4	361.4	
07/05/2013	18:37:38	292	6.5	11.05	382.2	382.2	
07/05/2013	18:37:45						End Scavenger Slurry
07/05/2013	18:37:45	278	6.5	11.04	382.9	382.9	
07/05/2013	18:37:46						Reset Total, Vol = 343.03 bbl

Well			Field		Job Start	Customer	Job Number
SGU 8502C-23 8502C-23			Wild Cat		Jul/05/2013	Encana	CAIO-00152
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
07/05/2013	18:37:48						Start Mixing Lead Slurry
07/05/2013	18:37:48	277	6.5	11.04	0.2	0.2	
07/05/2013	18:40:38	397	7.9	11.00	22.6	22.6	
07/05/2013	18:43:38	387	7.9	11.07	46.4	46.4	
07/05/2013	18:46:38	372	7.9	11.08	70.2	70.2	
07/05/2013	18:49:38	251	6.5	11.08	91.0	91.0	
07/05/2013	18:52:38	253	6.5	11.09	110.5	110.5	
07/05/2013	18:55:38	236	6.5	11.03	130.0	130.0	
07/05/2013	18:58:38	232	6.5	11.07	149.5	149.5	
07/05/2013	19:01:38	241	6.5	11.06	169.0	169.0	
07/05/2013	19:01:48						End Lead Slurry
07/05/2013	19:01:48	237	6.5	11.06	170.1	170.1	
07/05/2013	19:01:50						Reset Total, Vol = 190.31 bbl
07/05/2013	19:01:50	221	6.5	11.07	170.3	170.3	
07/05/2013	19:02:22						Start Mixing Tail Slurry
07/05/2013	19:02:22	237	7.5	11.34	3.6	3.6	
07/05/2013	19:04:38	231	6.6	12.72	19.6	19.6	
07/05/2013	19:07:38	223	6.6	12.55	39.4	39.4	
07/05/2013	19:10:38	224	6.6	12.53	59.2	59.2	
07/05/2013	19:13:38	223	6.6	12.61	78.9	78.9	
07/05/2013	19:16:38	225	6.6	12.60	98.6	98.6	
07/05/2013	19:18:17						End Tail Slurry
07/05/2013	19:18:17	74	3.3	12.37	108.1	108.1	
07/05/2013	19:18:18						Reset Total, Vol = 98.10 bbl
07/05/2013	19:18:18	71	3.2	12.05	108.1	108.1	
07/05/2013	19:19:38	63	3.6	8.39	112.8	112.8	
07/05/2013	19:22:19						Drop Top Plug
07/05/2013	19:22:19	42	5.5	4.74	0.1	0.1	
07/05/2013	19:22:20						Start Displacement
07/05/2013	19:22:20	37	6.4	4.44	0.2	0.2	
07/05/2013	19:22:38	151	8.0	7.65	2.3	2.3	
07/05/2013	19:25:38	124	6.6	7.20	22.3	22.3	
07/05/2013	19:28:38	179	7.6	8.39	42.7	42.7	
07/05/2013	19:31:38	236	7.6	8.39	65.6	65.6	
07/05/2013	19:34:38	291	7.6	8.38	88.3	88.3	
07/05/2013	19:37:38	336	7.6	8.38	111.1	111.1	
07/05/2013	19:40:38	401	7.6	8.38	133.8	133.8	
07/05/2013	19:43:38	490	7.6	8.38	156.5	156.5	
07/05/2013	19:46:38	322	5.1	8.38	177.3	177.3	
07/05/2013	19:49:38	535	5.9	8.38	194.9	194.9	
07/05/2013	19:52:38	602	5.9	8.38	212.7	212.7	
07/05/2013	19:55:38	558	5.9	8.38	230.4	230.4	
07/05/2013	19:58:38	493	3.6	8.38	245.6	245.6	
07/05/2013	20:01:38	453	2.3	8.38	254.5	254.5	
07/05/2013	20:04:38	468	2.3	8.38	261.3	261.3	
07/05/2013	20:05:29						Bump Top Plug
07/05/2013	20:05:29	970	0.0	8.38	262.4	262.4	
07/05/2013	20:05:30						End Displacement
07/05/2013	20:05:30	970	0.0	8.38	262.4	262.4	
07/05/2013	20:05:32						Reset Total, Vol = 253.5 bbl
07/05/2013	20:05:32	968	0.0	8.38	262.4	262.4	
07/05/2013	20:07:38	967	0.0	8.38	0.0	0.0	
07/05/2013	20:10:38	970	0.0	8.38	0.0	0.0	
07/05/2013	20:13:38	7	0.0	8.38	0.0	0.0	

Well			Field		Job Start	Customer	Job Number
SGU 8502C-23 8502C-23			Wild Cat		Jul/05/2013	Encana	CAIO-00152
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
07/05/2013	20:14:18	7	0.0	8.38	0.0	0.0	
07/05/2013	20:15:28						End Job
07/05/2013	20:15:28	7	0.0	8.38	0.0	0.0	
07/05/2013	20:15:29	7	0.0	8.38	0.0	0.0	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 6.7	N2	Mud 0.0	Maximum Rate 14.0	Total Slurry 631.0	Mud 0.0	Spacer 52.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4376	Final 7	Average 316	Bump Plug to 990	Breakdown	Type	Volume	Density	
Avg. N2 Percent	Designed Slurry Volume 615.0 bbl		Displacement 253.5 bbl	Mix Water Temp 83 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 176.0 bbl		
					Washed Thru Perfs <input type="checkbox"/>	To		
Customer or Authorized Representative Nate Curley			Schlumberger Supervisor Michael Simon			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	