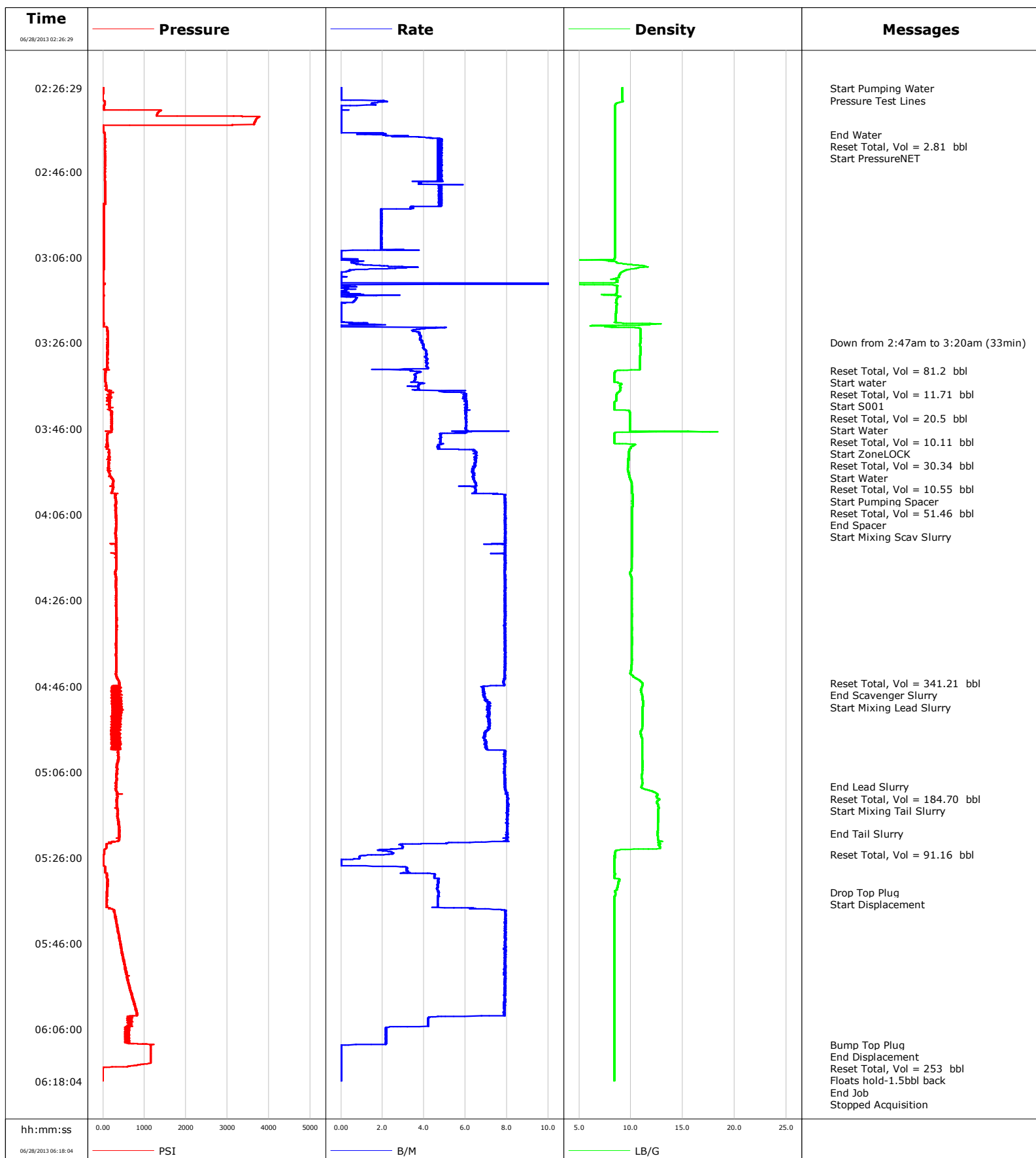


**Well** SGU 8504D-24  
**Field** Wild Cat  
**Engineer** Michael Simon  
**Country** United States

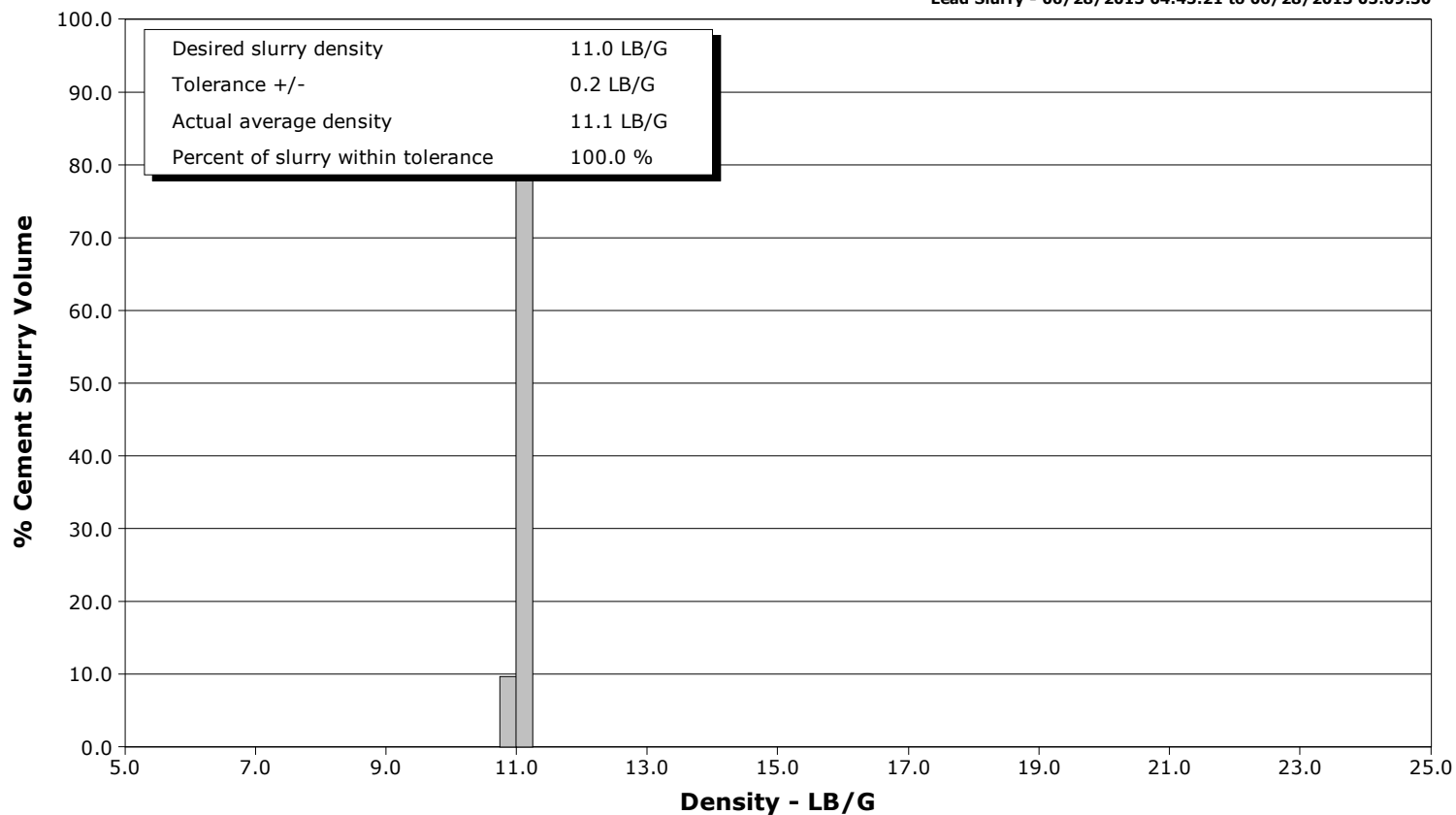
**Client** Encana  
**SIR No.** CAIO-00150  
**Job Type** Surface  
**Job Date** 06-27-2013



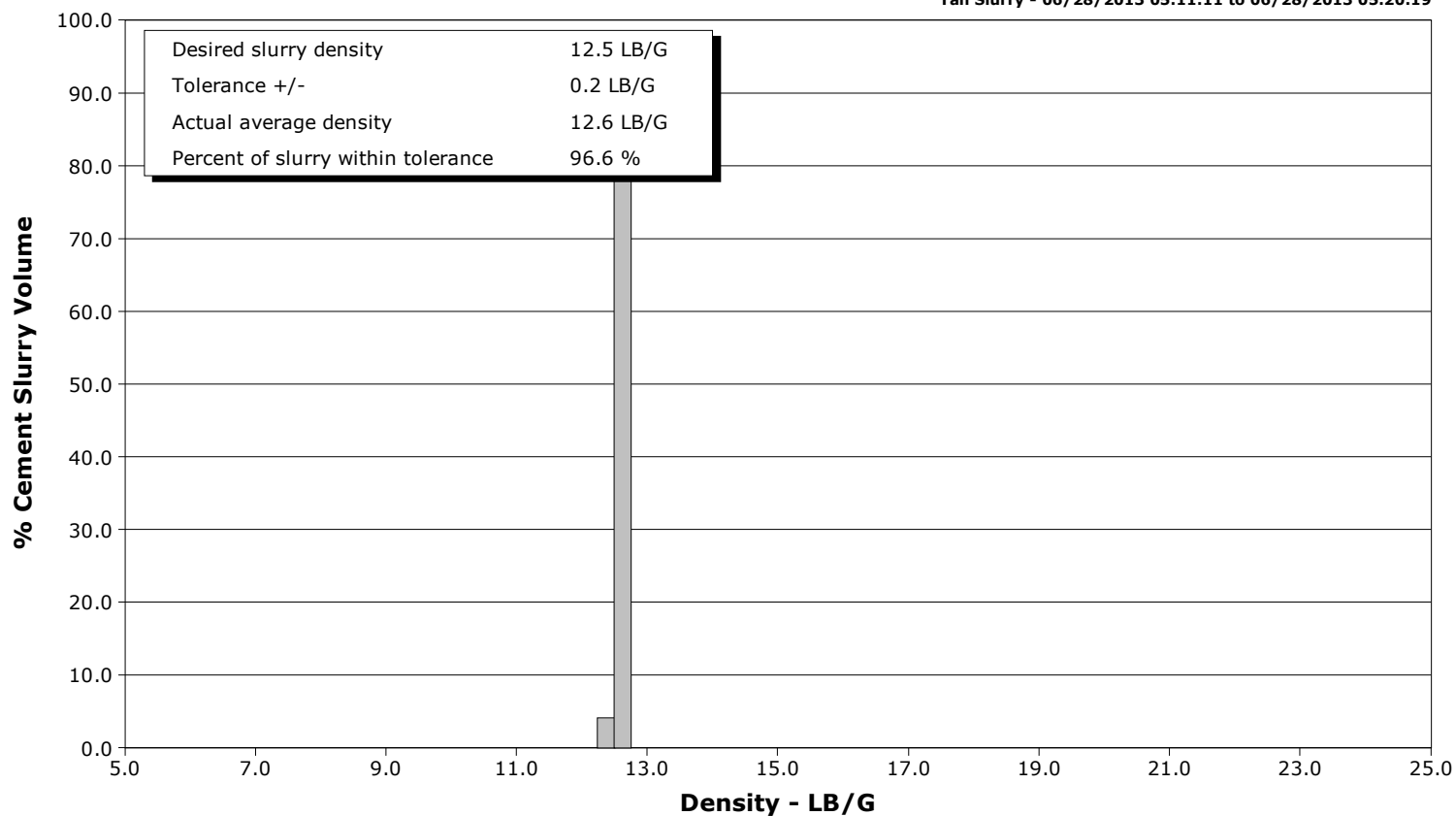
**Well** SGU 8504D-24  
**Field** Wild Cat  
**Engineer** Michael Simon  
**Country** United States

**Client** Encana  
**SIR No.** CAIO-00150  
**Job Type** Surface  
**Job Date** 06-27-2013

**Lead Slurry - 06/28/2013 04:45:21 to 06/28/2013 05:09:30**



**Tail Slurry - 06/28/2013 05:11:11 to 06/28/2013 05:20:19**





# Cementing Service Report

					Customer Encana			Job Number CAIO-00150							
Well SGU 8504D-24 8504D				Location (legal) Grand Junction			Schlumberger Location Rock Springs			Job Start Jun/27/2013					
Field Wild Cat		Formation Name/Type Shale			Deviation		Bit Size 14.8 in		Well MD 3335.5 ft		Well TVD 3335.5 ft				
County Garfield		State/Province Colorado			BHP		BHST 125 degF		BHCT 97 degF		Pore Press. Gradient				
Well Master 0631465742		API/UWI													
Rig Name Patterson 330		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		3335.5		9.630		36.0		K55		8RD	
						0.0		0.000		0.0					
Drilling Fluid Type		Max. Density 9.00 lb/gal		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type Surface													
Max. Allowed Tub. Press 3000 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole									
						Top,		Bottom,				No. of Shots		Total Interval	
Service Instructions														Diameter	
Treat Down Casing				Displacement 253.0 bbl		Packer Type				Packer Depth					
Tubing Vol.				Casing Vol. 257.8 bbl		Annular Vol. 422.0 bbl		Openhole Vol. 698.0 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 1650 psi		Shoe Type Float				Squeeze Type									
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 3335.5 ft				Tool Type					
No. Centralizers 23		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth					
Cement Head Type Single		Stage Tool Depth				Tail Pipe Size									
Job Scheduled For Jun/27/2013		Arrived on Location Jun/27/2013		Leave Location Jun/27/2013		Collar Type Float				Tail Pipe Depth					
						Collar Depth 3290.1 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message								
06/28/2013	01:56:53						Started Acquisition								
06/28/2013	02:26:26						Start Job								
06/28/2013	02:26:29	1	0.0	9.17	0.0	0.0									
06/28/2013	02:26:37						Start Pumping Water								
06/28/2013	02:26:37	1	0.0	9.17	0.0	0.0									
06/28/2013	02:26:38						Pressure Test Lines								
06/28/2013	02:26:38	1	0.0	9.17	0.0	0.0									
06/28/2013	02:26:53	0	0.0	9.17	0.0	0.0									
06/28/2013	02:29:53	43	1.9	9.07	0.9	0.9									
06/28/2013	02:32:53	1298	0.0	8.46	2.1	2.1									
06/28/2013	02:35:53	8	0.0	8.45	2.1	2.1									
06/28/2013	02:37:26						End Water								
06/28/2013	02:37:26	37	1.4	8.45	2.8	2.8									
06/28/2013	02:37:28						Reset Total, Vol = 2.81 bbl								
06/28/2013	02:37:28	39	1.6	8.45	2.8	2.8									
06/28/2013	02:37:41						Start PressureNET								
06/28/2013	02:37:41	41	2.3	8.45	0.4	0.4									
06/28/2013	02:38:53	48	4.9	8.45	5.3	5.3									
06/28/2013	02:41:53	49	4.6	8.45	19.6	19.6									
06/28/2013	02:44:53	48	4.6	8.45	33.9	33.9									
06/28/2013	02:47:53	45	4.9	8.45	48.2	48.2									

Well			Field		Job Start	Customer		Job Number
SGU 8504D-24 8504D			Wild Cat		Jun/27/2013	Encana		CAIO-00150
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message	
06/28/2013	02:53:53	23	4.7	8.45	76.3	76.3		
06/28/2013	02:56:53	17	1.9	8.45	84.0	84.0		
06/28/2013	02:59:53	18	1.9	8.45	89.8	89.8		
06/28/2013	03:02:53	18	1.9	8.45	95.7	95.7		
06/28/2013	03:05:53	17	0.0	8.45	98.8	98.8		
06/28/2013	03:08:53	13	1.1	9.84	102.1	102.1		
06/28/2013	03:11:53	10	0.0	8.67	102.4	102.4		
06/28/2013	03:14:53	28	0.0	8.13	110.6	110.6		
06/28/2013	03:17:53	4	0.0	8.58	111.8	111.8		
06/28/2013	03:20:53	4	0.0	8.57	111.8	111.8		
06/28/2013	03:23:53	111	3.8	10.94	118.6	118.6		
06/28/2013	03:26:01						Down from 2:47am to 3:20am (33min)	
06/28/2013	03:26:01	109	3.9	10.91	126.8	126.8		
06/28/2013	03:26:53	107	4.0	10.91	130.2	130.2		
06/28/2013	03:29:53	108	4.1	10.90	142.5	142.5		
06/28/2013	03:32:25						Reset Total, Vol = 81.2 bbl	
06/28/2013	03:32:25	64	3.3	9.02	152.5	152.5		
06/28/2013	03:32:53	64	3.8	8.43	1.7	1.7		
06/28/2013	03:33:22						Start water	
06/28/2013	03:33:22	56	3.6	8.41	3.4	3.4		
06/28/2013	03:35:39						Reset Total, Vol = 11.71 bbl	
06/28/2013	03:35:39	68	3.8	9.09	11.7	11.7		
06/28/2013	03:35:51						Start S001	
06/28/2013	03:35:51	73	3.7	8.99	0.7	0.7		
06/28/2013	03:35:53	71	3.7	8.97	0.9	0.9		
06/28/2013	03:38:53	170	6.0	8.59	15.6	15.6		
06/28/2013	03:40:11						Reset Total, Vol = 20.5 bbl	
06/28/2013	03:40:11	159	6.1	8.41	23.4	23.4		
06/28/2013	03:40:38						Start Water	
06/28/2013	03:40:38	153	6.0	8.40	26.2	26.2		
06/28/2013	03:41:53	199	6.0	9.85	33.7	33.7		
06/28/2013	03:42:43						Reset Total, Vol = 10.11 bbl	
06/28/2013	03:42:43	218	6.0	9.86	3.2	3.2		
06/28/2013	03:43:38						Start ZoneLOCK	
06/28/2013	03:43:38	214	6.0	9.86	5.5	5.5		
06/28/2013	03:46:45						Reset Total, Vol = 30.34 bbl	
06/28/2013	03:46:45	181	5.5	17.63	24.3	24.3		
06/28/2013	03:47:09						Start Water	
06/28/2013	03:47:09	116	4.8	8.42	2.3	2.3		
06/28/2013	03:47:53	102	4.8	8.41	2.2	2.2		
06/28/2013	03:49:25						Reset Total, Vol = 10.55 bbl	
06/28/2013	03:49:25	105	4.8	8.41	9.6	9.6		
06/28/2013	03:49:44						Start Pumping Spacer	
06/28/2013	03:49:44	92	4.8	10.40	11.1	11.1		
06/28/2013	03:50:53	138	6.3	9.82	16.6	16.6		
06/28/2013	03:53:53	147	6.5	9.76	36.1	36.1		
06/28/2013	03:56:53	158	6.4	9.83	55.3	55.3		
06/28/2013	03:57:51						Reset Total, Vol = 51.46 bbl	
06/28/2013	03:57:51	239	6.4	9.94	61.5	61.5		
06/28/2013	03:58:09						End Spacer	
06/28/2013	03:58:09	251	6.4	10.00	1.9	1.9		
06/28/2013	03:58:24						Start Mixing Scav Slurry	
06/28/2013	03:58:24	251	6.4	10.04	3.5	3.5		
06/28/2013	03:59:53	241	6.5	10.10	13.1	13.1		

Well			Field		Job Start	Customer		Job Number
SGU 8504D-24 8504D			Wild Cat		Jun/27/2013	Encana		CAIO-00150
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message	
06/28/2013	04:05:53	303	7.9	10.12	58.7	58.7		
06/28/2013	04:08:53	314	7.9	10.11	82.4	82.4		
06/28/2013	04:11:53	318	7.9	10.11	106.1	106.1		
06/28/2013	04:14:53	320	7.9	10.11	129.8	129.8		
06/28/2013	04:17:53	317	7.9	10.08	153.5	153.5		
06/28/2013	04:20:53	322	7.9	10.08	177.2	177.2		
06/28/2013	04:23:53	315	7.9	10.07	200.9	200.9		
06/28/2013	04:26:53	310	7.9	10.09	224.6	224.6		
06/28/2013	04:29:53	328	7.9	10.10	248.3	248.3		
06/28/2013	04:32:53	340	7.9	10.10	272.0	272.0		
06/28/2013	04:35:53	318	7.9	10.10	295.7	295.7		
06/28/2013	04:38:53	316	7.9	10.08	319.4	319.4		
06/28/2013	04:41:53	324	7.9	10.04	343.2	343.2		
06/28/2013	04:44:53	389	7.8	10.92	366.8	366.8		
06/28/2013	04:45:19						Reset Total, Vol = 341.21 bbl	
06/28/2013	04:45:19	401	7.8	11.08	370.2	370.2		
06/28/2013	04:45:21						End Scavenger Slurry	
06/28/2013	04:45:21						Start Mixing Lead Slurry	
06/28/2013	04:45:21	381	7.8	11.09	0.3	0.3		
06/28/2013	04:47:53	340	6.9	11.04	18.3	18.3		
06/28/2013	04:50:53	241	7.1	11.14	39.3	39.3		
06/28/2013	04:53:53	366	7.1	11.10	60.6	60.6		
06/28/2013	04:56:53	208	6.9	10.91	82.0	82.0		
06/28/2013	04:59:53	292	7.0	11.08	102.8	102.8		
06/28/2013	05:02:53	379	7.9	11.09	125.6	125.6		
06/28/2013	05:05:53	335	7.9	11.08	149.3	149.3		
06/28/2013	05:08:53	325	7.9	11.07	172.9	172.9		
06/28/2013	05:09:30						End Lead Slurry	
06/28/2013	05:09:30	302	7.9	11.01	177.8	177.8		
06/28/2013	05:09:52						Reset Total, Vol = 184.70 bbl	
06/28/2013	05:09:52	314	7.9	11.11	180.7	180.7		
06/28/2013	05:11:11						Start Mixing Tail Slurry	
06/28/2013	05:11:11	470	8.0	12.53	10.5	10.5		
06/28/2013	05:11:53	340	8.0	12.48	16.1	16.1		
06/28/2013	05:14:53	356	8.0	12.64	40.2	40.2		
06/28/2013	05:17:53	384	8.0	12.60	64.2	64.2		
06/28/2013	05:20:19						End Tail Slurry	
06/28/2013	05:20:19	400	8.1	12.57	83.7	83.7		
06/28/2013	05:20:53	387	8.0	12.57	88.2	88.2		
06/28/2013	05:23:53	69	3.0	12.78	105.6	105.6		
06/28/2013	05:25:20						Reset Total, Vol = 91.16 bbl	
06/28/2013	05:25:20	20	2.2	8.43	108.9	108.9		
06/28/2013	05:26:53	2	0.0	8.42	110.0	110.0		
06/28/2013	05:29:53	89	4.5	8.44	116.2	116.2		
06/28/2013	05:32:53	107	4.6	8.69	130.1	130.1		
06/28/2013	05:34:04						Drop Top Plug	
06/28/2013	05:34:04	95	4.7	8.47	3.4	3.4		
06/28/2013	05:34:05						Start Displacement	
06/28/2013	05:34:05	95	4.7	8.47	3.5	3.5		
06/28/2013	05:35:53	90	4.7	8.41	11.9	11.9		
06/28/2013	05:38:53	289	7.9	8.41	29.2	29.2		
06/28/2013	05:41:53	345	7.9	8.41	53.0	53.0		
06/28/2013	05:44:53	393	7.9	8.41	76.8	76.8		
06/28/2013	05:47:53	454	7.9	8.41	100.5	100.5		

Well			Field		Job Start	Customer		Job Number
SGU 8504D-24 8504D			Wild Cat		Jun/27/2013	Encana		CAIO-00150
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message	
06/28/2013	05:53:53	601	7.9	8.41	148.0	148.0		
06/28/2013	05:56:53	651	7.9	8.41	171.7	171.7		
06/28/2013	05:59:53	747	7.9	8.41	195.3	195.3		
06/28/2013	06:02:53	826	7.9	8.41	219.0	219.0		
06/28/2013	06:05:53	537	2.2	8.41	231.0	231.0		
06/28/2013	06:08:53	639	2.2	8.41	237.5	237.5		
06/28/2013	06:09:38						Bump Top Plug	
06/28/2013	06:09:38	1179	0.7	8.41	0.1	0.1		
06/28/2013	06:09:39						End Displacement	
06/28/2013	06:09:39	1132	0.4	8.41	0.1	0.1		
06/28/2013	06:09:40						Reset Total, Vol = 253 bbl	
06/28/2013	06:09:40	1164	0.2	8.41	0.1	0.1		
06/28/2013	06:10:47						Floats hold-1.5bbl back	
06/28/2013	06:10:47	1148	0.0	8.41	0.1	0.1		
06/28/2013	06:11:53	1148	0.0	8.41	0.1	0.1		
06/28/2013	06:14:53	47	0.0	8.41	0.1	0.1		
06/28/2013	06:17:53	-1	0.0	8.41	0.1	0.1		
06/28/2013	06:17:59						End Job	
06/28/2013	06:17:59	-1	0.0	8.41	0.1	0.1		
06/28/2013	06:18:04	-1	0.0	8.41	0.1	0.1		

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 6.0	N2	Mud 0.0	Maximum Rate 25.0		Total Slurry 616.0	Mud 0.0	Spacer 51.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 3770	Final -0	Average 296	Bump Plug to 990	Breakdown	Type		Volume		Density	
Avg. N2 Percent		Designed Slurry Volume 616.0 bbl		Displacement 253.0 bbl		Mix Water Temp 80 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 304.0 bbl
								Washed Thru Perfs <input type="checkbox"/>		
Customer or Authorized Representative Randy Burke				Schlumberger Supervisor Michael Simon				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-