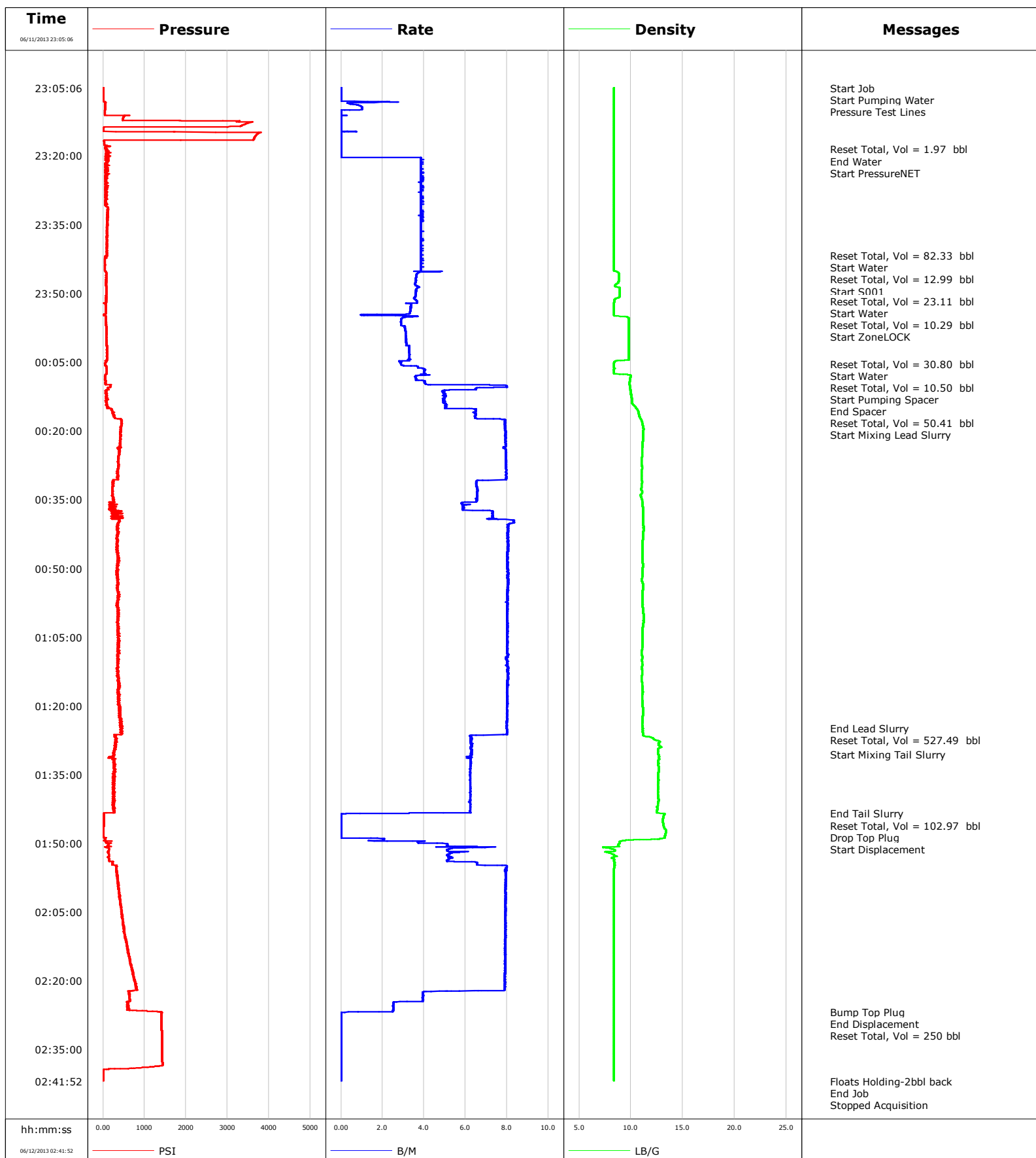


Well SGU 8507A-23
Field Wildcat
Engineer Michael Simon
Country United States

Client Encana
SIR No. CAIO-00145
Job Type Surface
Job Date 06-11-2013

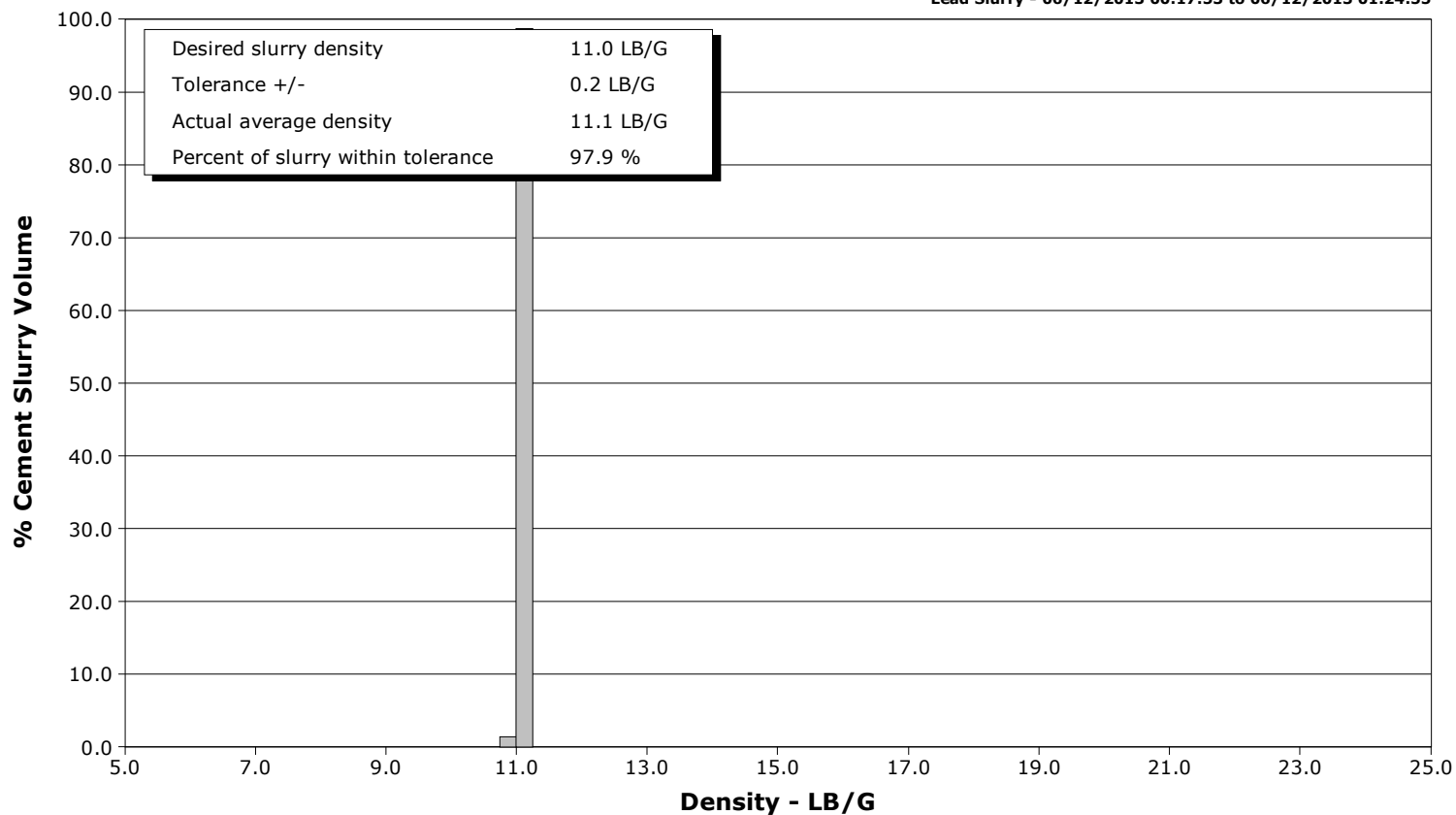


Schlumberger Cementing Qa/Qc Density Report

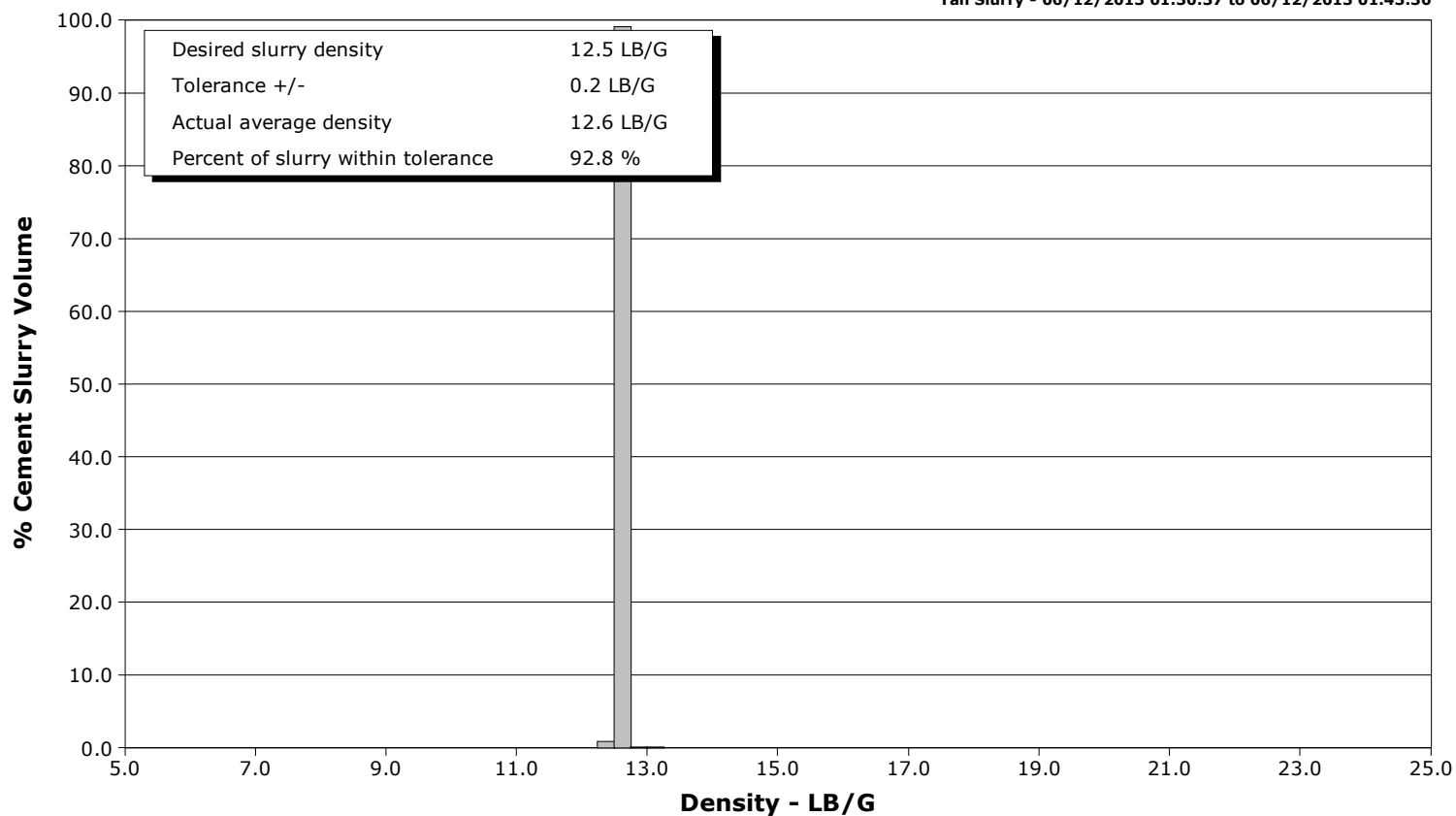
Well SGU 8507A-23
Field Wildcat
Engineer Michael Simon
Country United States

Client Encana
SIR No. CAIO-00145
Job Type Surface
Job Date 06-11-2013

Lead Slurry - 06/12/2013 00:17:53 to 06/12/2013 01:24:55



Tail Slurry - 06/12/2013 01:30:37 to 06/12/2013 01:43:30



Cementing Service Report

				Customer Encana				Job Number CAIO-00145			
Well SGU 8507A-23 8507A-23			Location (legal) Grand Junction			Schlumberger Location Rock Springs			Job Start Jun/11/2013		
Field Wildcat		Formation Name/Type		Deviation		Bit Size 14.8 in		Well MD 3298.6 ft		Well TVD 3297.1 ft	
County Garfield		State/Province Colorado		BHP		BHST 125 degF		BHCT 97 degF		Pore Press. Gradient	
Well Master 0631465737		API/UWI									
Rig Name Patterson 330		Drilled For Gas		Service Via Land		Casing/Liner					
						Depth, ft		Size, in		Weight, lb/ft	
Offshore Zone		Well Class New		Well Type Development		3297.1		9.630		36.0	
						0.0		0.000		0.0	
Drilling Fluid Type		Max. Density 9.00 lb/gal		Plastic Viscosity		Tubing/Drill Pipe					
						Depth,		Size,		Weight,	
Service Line Cementing		Job Type Surface									
Max. Allowed Tub. Press 4500 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole					
						Top,		Bottom,		No. of Shots	
										Total Interval	
										Diameter	
						Treat Down		Displacement 250.0 bbl		Packer Type	
										Packer Depth	
						Tubing Vol.		Casing Vol. 254.9 bbl		Annular Vol. 418.0 bbl	
										Openhole Vol. 690.0 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 1631 psi				Shoe Type Float				Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 3297.1 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 Jun/11/2013		Arrived on Location Jun/11/2013		Leave Location Jun/11/2013		Collar Type Float				Tail Pipe Depth	
						Collar Depth 3252.5 ft				Sqz. Total Vol.	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message				
06/11/2013	22:18:21						Started Acquisition				
06/11/2013	23:05:06	7	0.0	8.37	0.0	0.0					
06/11/2013	23:05:07						Start Job				
06/11/2013	23:05:07	7	0.0	8.37	0.0	0.0					
06/11/2013	23:05:09						Start Pumping Water				
06/11/2013	23:05:09	6	0.0	8.37	0.0	0.0					
06/11/2013	23:05:14						Pressure Test Lines				
06/11/2013	23:05:14	6	0.0	8.37	0.0	0.0					
06/11/2013	23:06:21	5	0.0	8.37	0.0	0.0					
06/11/2013	23:09:21	56	1.0	8.36	1.2	1.2					
06/11/2013	23:12:21	1896	0.0	8.37	1.9	1.9					
06/11/2013	23:15:21	3707	0.0	8.37	2.0	2.0					
06/11/2013	23:18:21	59	0.0	8.37	2.0	2.0					
06/11/2013	23:18:35						Reset Total, Vol = 1.97 bbl				
06/11/2013	23:18:35	60	0.0	8.37	2.0	2.0					
06/11/2013	23:18:36						End Water				
06/11/2013	23:18:36	66	0.0	8.37	0.0	0.0					
06/11/2013	23:18:53						Start PressureNET				
06/11/2013	23:18:53	105	0.0	8.37	0.0	0.0					
06/11/2013	23:21:21	118	3.9	8.37	3.7	3.7					
06/11/2013	23:24:21	54	3.9	8.37	15.3	15.3					

Well			Field		Job Start	Customer		Job Number
SGU 8507A-23 8507A-23			Wildcat		Jun/11/2013	Encana		CAIO-00145
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message	
06/11/2013	23:30:21	55	3.9	8.37	38.5	38.5		
06/11/2013	23:33:21	104	3.9	8.37	50.0	50.0		
06/11/2013	23:36:21	89	3.9	8.37	61.6	61.6		
06/11/2013	23:39:21	87	3.9	8.38	73.2	73.2		
06/11/2013	23:41:43						Reset Total, Vol = 82.33 bbl	
06/11/2013	23:41:43	99	3.9	8.37	82.3	82.3		
06/11/2013	23:42:01						Start Water	
06/11/2013	23:42:01	50	3.9	8.37	1.2	1.2		
06/11/2013	23:42:21	75	3.9	8.37	2.4	2.4		
06/11/2013	23:45:05						Reset Total, Vol = 12.99 bbl	
06/11/2013	23:45:05	44	3.9	8.37	13.0	13.0		
06/11/2013	23:45:21	66	3.9	8.67	1.1	1.1		
06/11/2013	23:45:36						Start S001	
06/11/2013	23:45:36	76	3.7	8.81	2.1	2.1		
06/11/2013	23:48:21	73	3.6	8.45	12.0	12.0		
06/11/2013	23:51:21	72	3.6	8.43	22.8	22.8		
06/11/2013	23:51:42						Reset Total, Vol = 23.11 bbl	
06/11/2013	23:51:42	72	3.6	8.39	24.1	24.1		
06/11/2013	23:53:25						Start Water	
06/11/2013	23:53:25	63	3.4	8.37	5.9	5.9		
06/11/2013	23:54:21	64	3.3	8.37	9.0	9.0		
06/11/2013	23:54:26						Reset Total, Vol = 10.29 bbl	
06/11/2013	23:54:26	64	3.3	8.37	9.3	9.3		
06/11/2013	23:54:57						Start ZoneLOCK	
06/11/2013	23:54:57	62	3.6	8.59	1.1	1.1		
06/11/2013	23:57:21	86	3.1	9.79	8.3	8.3		
06/12/2013	00:00:21	80	3.1	9.80	17.6	17.6		
06/12/2013	00:03:21	101	3.3	9.79	27.3	27.3		
06/12/2013	00:05:24						Reset Total, Vol = 30.80 bbl	
06/12/2013	00:05:24	57	2.9	8.37	33.8	33.8		
06/12/2013	00:05:51						Start Water	
06/12/2013	00:05:51	73	3.4	8.37	1.3	1.3		
06/12/2013	00:06:21	87	3.9	8.40	3.2	3.2		
06/12/2013	00:07:48						Reset Total, Vol = 10.50 bbl	
06/12/2013	00:07:48	59	4.3	9.86	9.0	9.0		
06/12/2013	00:07:54						Start Pumping Spacer	
06/12/2013	00:07:54	54	3.8	9.96	0.4	0.4		
06/12/2013	00:09:21	61	4.0	9.87	5.8	5.8		
06/12/2013	00:12:21	79	5.0	10.01	22.6	22.6		
06/12/2013	00:15:21	205	6.5	10.61	0.5	0.5		
06/12/2013	00:15:43						End Spacer	
06/12/2013	00:15:43	224	6.5	10.69	2.9	2.9		
06/12/2013	00:15:44						Reset Total, Vol = 50.41 bbl	
06/12/2013	00:15:44	219	6.5	10.69	3.0	3.0		
06/12/2013	00:17:53						Start Mixing Lead Slurry	
06/12/2013	00:17:53	447	7.9	11.03	17.6	17.6		
06/12/2013	00:18:21	430	7.9	11.09	21.3	21.3		
06/12/2013	00:21:21	419	7.9	11.16	45.1	45.1		
06/12/2013	00:24:21	403	7.9	11.08	68.8	68.8		
06/12/2013	00:27:21	373	8.0	11.04	92.7	92.7		
06/12/2013	00:30:21	367	8.0	11.03	116.6	116.6		
06/12/2013	00:33:21	242	6.5	11.08	136.8	136.8		
06/12/2013	00:36:21	162	5.9	11.13	155.9	155.9		
06/12/2013	00:39:21	383	7.6	11.16	176.4	176.4		

Well			Field		Job Start	Customer	Job Number
SGU 8507A-23 8507A-23			Wildcat		Jun/11/2013	Encana	CAIO-00145
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
06/12/2013	00:45:21	354	8.0	11.13	224.9	224.9	
06/12/2013	00:48:21	340	8.0	11.12	248.9	248.9	
06/12/2013	00:51:21	318	8.0	11.12	273.1	273.1	
06/12/2013	00:54:21	347	8.1	11.16	297.2	297.2	
06/12/2013	00:57:21	366	7.9	11.13	321.3	321.3	
06/12/2013	01:00:21	369	8.0	11.22	345.3	345.3	
06/12/2013	01:03:21	354	8.0	11.13	369.4	369.4	
06/12/2013	01:06:21	393	8.0	11.12	393.4	393.4	
06/12/2013	01:09:21	377	8.0	11.10	417.5	417.5	
06/12/2013	01:12:21	358	8.0	11.06	441.5	441.5	
06/12/2013	01:15:21	369	8.0	11.08	465.6	465.6	
06/12/2013	01:18:21	386	8.0	11.07	489.7	489.7	
06/12/2013	01:21:21	411	8.0	11.18	513.7	513.7	
06/12/2013	01:24:21	439	8.0	11.12	537.7	537.7	
06/12/2013	01:24:55						End Lead Slurry
06/12/2013	01:24:55	440	8.0	11.14	542.2	542.2	
06/12/2013	01:26:57						Reset Total, Vol = 527.49 bbl
06/12/2013	01:26:57	314	6.3	12.01	557.5	557.5	
06/12/2013	01:27:21	322	6.2	12.20	2.5	2.5	
06/12/2013	01:30:21	266	6.3	12.61	21.3	21.3	
06/12/2013	01:30:37						Start Mixing Tail Slurry
06/12/2013	01:30:37	264	6.2	12.63	23.0	23.0	
06/12/2013	01:33:21	275	6.2	12.67	40.1	40.1	
06/12/2013	01:36:21	243	6.2	12.66	58.8	58.8	
06/12/2013	01:39:21	259	6.3	12.60	77.5	77.5	
06/12/2013	01:42:21	237	6.2	12.54	96.1	96.1	
06/12/2013	01:43:30						End Tail Slurry
06/12/2013	01:43:30						Reset Total, Vol = 102.97 bbl
06/12/2013	01:43:30	14	0.9	13.15	102.9	102.9	
06/12/2013	01:43:32						Drop Top Plug
06/12/2013	01:43:32						Start Displacement
06/12/2013	01:43:32	14	0.2	13.22	103.0	103.0	
06/12/2013	01:45:21	14	0.0	13.09	0.0	0.0	
06/12/2013	01:48:21	11	0.0	13.29	0.0	0.0	
06/12/2013	01:51:21	141	5.1	8.37	10.4	10.4	
06/12/2013	01:54:21	241	6.6	8.43	26.5	26.5	
06/12/2013	01:57:21	350	7.9	8.36	49.7	49.7	
06/12/2013	02:00:21	379	7.9	8.37	73.5	73.5	
06/12/2013	02:03:21	412	7.9	8.36	97.3	97.3	
06/12/2013	02:06:21	464	7.9	8.36	121.0	121.0	
06/12/2013	02:09:21	502	7.9	8.36	144.8	144.8	
06/12/2013	02:12:21	568	7.9	8.36	168.6	168.6	
06/12/2013	02:15:21	649	7.9	8.36	192.3	192.3	
06/12/2013	02:18:21	706	7.9	8.36	216.0	216.0	
06/12/2013	02:21:21	793	7.9	8.36	239.7	239.7	
06/12/2013	02:24:21	645	3.9	8.36	255.0	255.0	
06/12/2013	02:26:51						Bump Top Plug
06/12/2013	02:26:51						End Displacement
06/12/2013	02:26:51	1388	0.4	8.36	261.5	261.5	
06/12/2013	02:27:01						Reset Total, Vol = 250 bbl
06/12/2013	02:27:01	1416	0.0	8.36	261.5	261.5	
06/12/2013	02:27:21	1414	0.0	8.37	0.0	0.0	
06/12/2013	02:30:21	1415	0.0	8.36	0.0	0.0	
06/12/2013	02:33:21	1422	0.0	8.37	0.0	0.0	

Well			Field		Job Start	Customer	Job Number
SGU 8507A-23 8507A-23			Wildcat		Jun/11/2013	Encana	CAIO-00145
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
06/12/2013	02:39:21	42	0.0	8.37	0.0	0.0	
06/12/2013	02:41:52	11	0.0	8.37	0.0	0.0	
06/12/2013	02:41:52						Floats Holding-2bbl back
06/12/2013	02:41:53						End Job

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 6.2	N2	Mud 0.0	Maximum Rate 8.4	Total Slurry 629.0	Mud 0.0	Spacer 50.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3804	Final 11	Average 382	Bump Plug to 1000	Breakdown	Type	Volume	Density	
Avg. N2 Percent		Designed Slurry Volume 615.0 bbl	Displacement 250.0 bbl	Mix Water Temp 80 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 180.0 bbl		
					Washed Thru Perfs <input type="checkbox"/>	To		
Customer or Authorized Representative Buddy Burke			Schlumberger Supervisor Michael Simon			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	