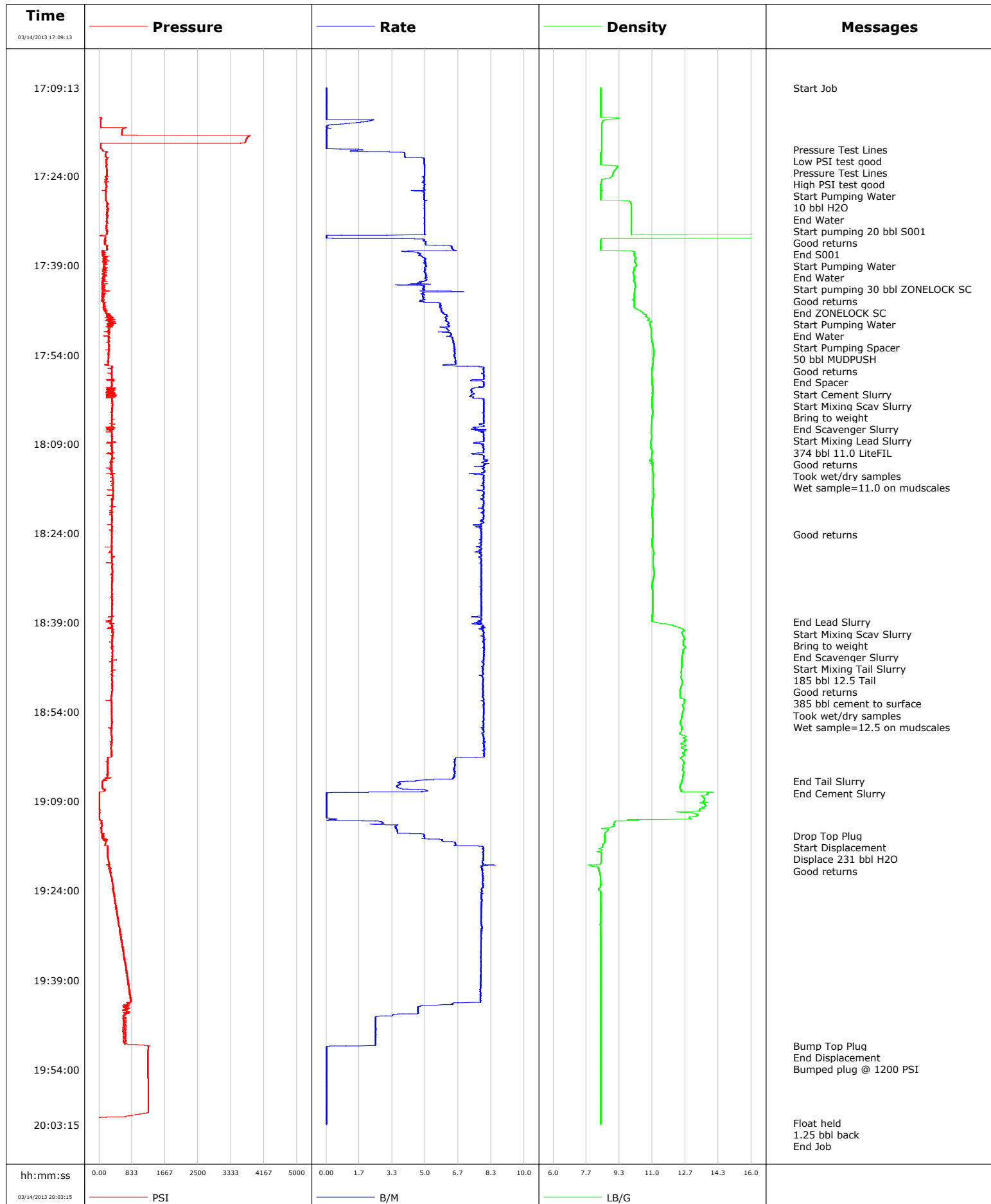


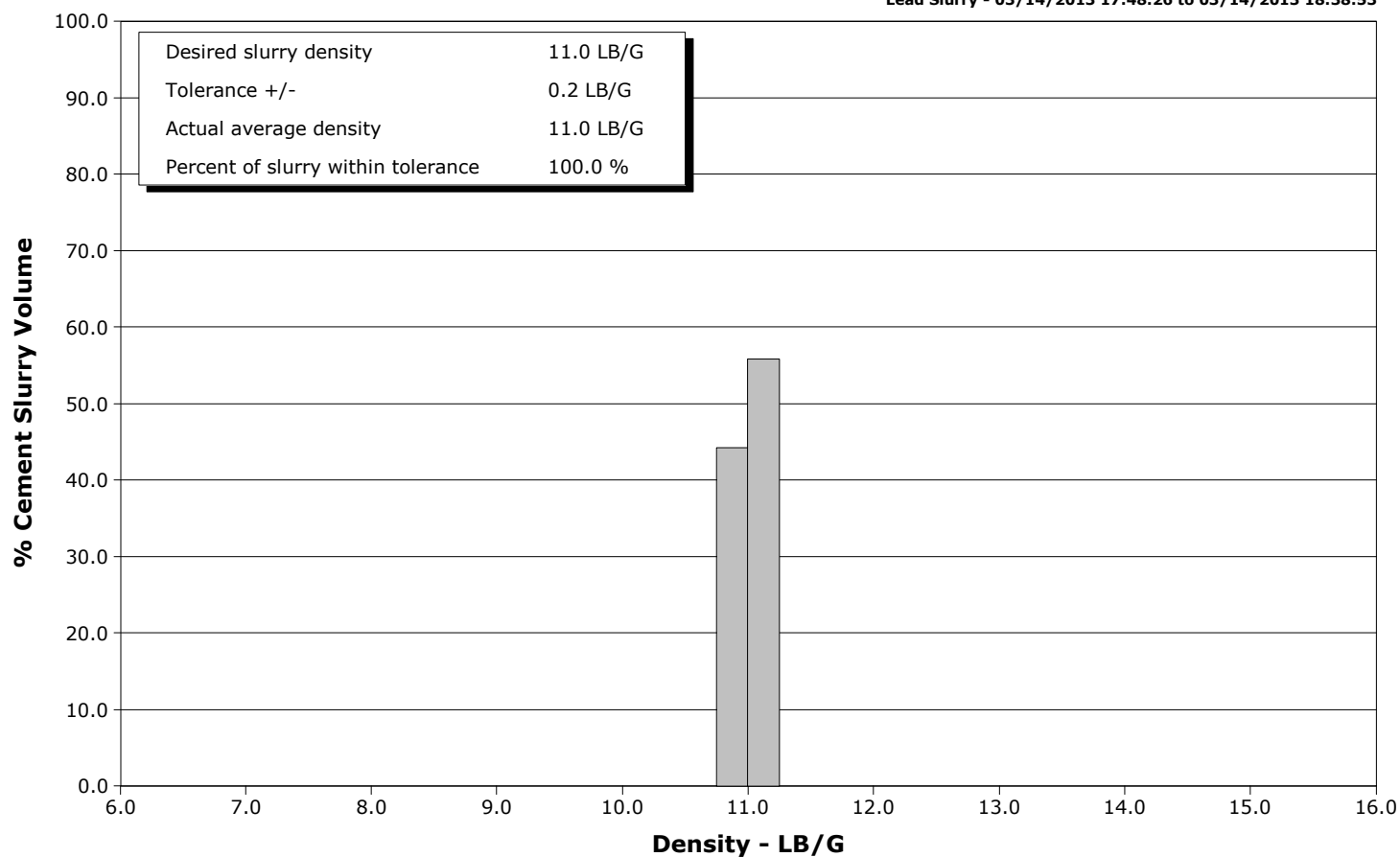
Well	SGU 8513A-36	Client	Encana
Field	Wildcat	SIR No.	C610-01180
Engineer	Matt Fair/Ted Hansen	Job Type	9 5/8" Surface
Country	United States	Job Date	03-14-2013



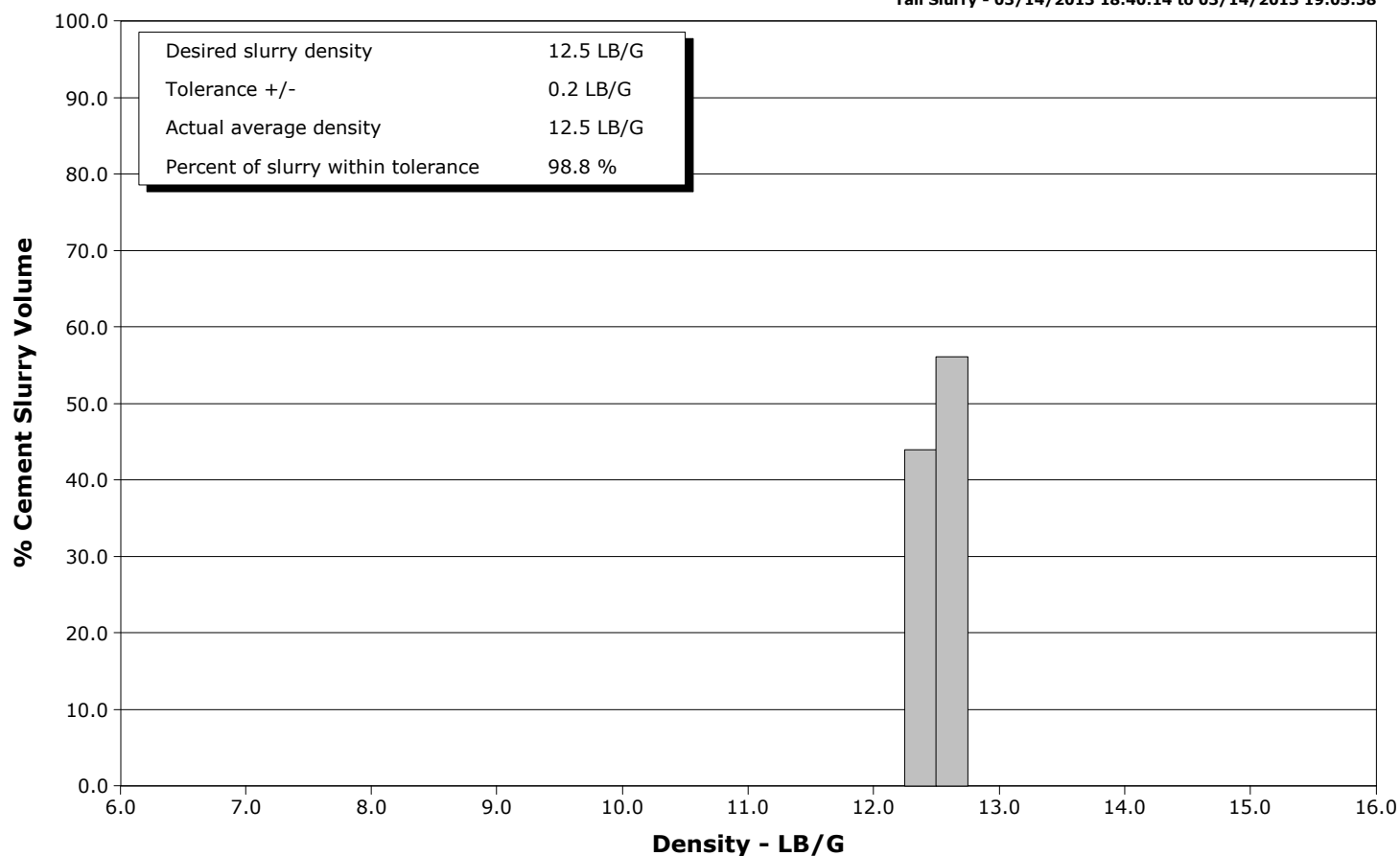
Well SGU 8513A-36
Field Wildcat
Engineer Matt Fair/Ted Hansen
Country United States

Client Encana
SIR No. C610-01180
Job Type 9 5/8" Surface
Job Date 03-14-2013

Lead Slurry - 03/14/2013 17:48:26 to 03/14/2013 18:38:53



Tail Slurry - 03/14/2013 18:40:14 to 03/14/2013 19:05:38



					Customer Encana			Job Number C610-01180					
Well SGU 8513A-36			Location (legal)			Schlumberger Location			Job Start Mar/14/2013				
Field Wildcat		Formation Name/Type Shale		Deviation deg		Bit Size 14.8 in		Well MD 3031.0 ft		Well TVD 3031.0 ft			
County Garfield		State/Province Colorado		BHP psi		BHST 120 degF		BHCT 96 degF		Pore Press. Gradient lb/gal			
Well Master 0631304018		API/UWI											
Rig Name Patterson 326		Drilled For Gas		Service Via Land		Casing/Liner							
						Depth, ft		Size, in		Weight, lb/ft			
Offshore Zone		Well Class New		Well Type Development		3031.0		9.6		36.0			
						0.0		0.0		0.0			
Drilling Fluid Type Bentonite		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe							
						T/D		Depth, ft		Size, in			
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. 385.0 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 1500 psi				Shoe Type Float				Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 3031.0 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 Mar/14/2013 15:00		Arrived on Location Mar/14/2013 15:00		Leave Location Mar/14/2013 21:00		Collar Type Float				Tail Pipe Depth ft			
						Collar Depth 2986.0 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						
03/14/2013	17:09:13	8.40	-5	0.0	0.0	0.0	Started Acquisition						
03/14/2013	17:09:14	8.40	-5	0.0	0.0	0.0	Start Job						
03/14/2013	17:11:43	8.40	-5	0.0	0.0	0.0							
03/14/2013	17:14:13	8.58	55	0.0	0.0	0.0							
03/14/2013	17:16:43	8.44	575	0.0	1.4	1.4							
03/14/2013	17:19:13	8.45	41	0.0	0.0	1.4							
03/14/2013	17:19:32	8.44	71	1.2	0.0	1.4	Pressure Test Lines						
03/14/2013	17:19:33	8.44	75	1.5	0.1	1.4	Low PSI test good						
03/14/2013	17:19:34	8.44	77	1.7	0.1	1.5	Pressure Test Lines						
03/14/2013	17:19:35	8.43	77	1.7	0.1	1.5	High PSI test good						
03/14/2013	17:19:39	8.43	88	1.8	0.2	1.6	Start Pumping Water						
03/14/2013	17:19:40	8.43	90	1.8	0.3	1.6	10 bbl H2O						
03/14/2013	17:21:43	8.38	185	4.9	8.4	9.8							
03/14/2013	17:22:10	8.40	208	5.0	0.3	11.9	End Water						
03/14/2013	17:22:11	8.48	198	5.0	0.5	12.1	Start pumping 20 bbl S001						
03/14/2013	17:24:10	8.95	148	4.9	10.3	21.9	Good returns						
03/14/2013	17:24:13	8.93	181	4.9	10.6	22.2							
03/14/2013	17:26:10	8.39	183	4.9	0.2	31.8	End S001						
03/14/2013	17:26:12	8.39	172	4.9	0.4	32.0	Start Pumping Water						
03/14/2013	17:26:43	8.38	162	4.9	2.9	34.5							
03/14/2013	17:28:02	8.39	176	4.9	9.4	41.0	End Water						

Well SGU 8513A-36			Field Wildcat		Job Start Mar/14/2013		Customer Encana		Job Number C610-01180
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		
03/14/2013	17:29:13	9.93	208	5.0	5.5	46.9			
03/14/2013	17:29:52	9.93	204	5.0	8.7	50.1	Good returns		
03/14/2013	17:31:43	9.93	209	5.0	17.8	59.3			
03/14/2013	17:34:03	25.00	34	0.0	28.9	70.3	End ZONELOCK SC		
03/14/2013	17:34:13	25.00	154	0.0	28.9	70.3			
03/14/2013	17:34:14	25.00	154	0.0	28.9	70.3	Start Pumping Water		
03/14/2013	17:36:39	10.02	123	3.8	0.4	82.2	End Water		
03/14/2013	17:36:40	10.03	123	3.8	0.5	82.2	Start Pumping Spacer		
03/14/2013	17:36:42	10.06	75	4.0	0.6	82.3	50 bbl MUDPUSH		
03/14/2013	17:36:43	10.08	108	4.0	0.7	82.4			
03/14/2013	17:39:13	10.17	127	5.1	12.9	94.6			
03/14/2013	17:39:43	10.07	147	5.0	15.4	97.1	Good returns		
03/14/2013	17:41:43	10.07	92	4.7	25.4	107.1			
03/14/2013	17:44:13	10.08	71	4.9	37.7	119.4			
03/14/2013	17:46:35	10.34	132	5.8	50.4	132.2	End Spacer		
03/14/2013	17:46:37	10.37	185	5.8	50.6	132.4	Start Cement Slurry		
03/14/2013	17:46:38	10.37	185	5.8	50.7	132.5	Start Mixing Scav Slurry		
03/14/2013	17:46:39	10.39	210	5.8	50.8	132.6	Bring to weight		
03/14/2013	17:46:43	10.41	144	5.8	51.2	133.0			
03/14/2013	17:48:25	10.96	322	6.1	1.4	143.2	End Scavenger Slurry		
03/14/2013	17:48:26	10.96	250	6.1	1.5	143.3	Start Mixing Lead Slurry		
03/14/2013	17:48:27	10.97	250	6.1	1.6	143.4	374 bbl 11.0 LiteFIL		
03/14/2013	17:49:13	10.90	223	6.2	6.3	148.1			
03/14/2013	17:51:43	10.98	243	6.4	21.9	163.6			
03/14/2013	17:54:08	11.07	251	6.5	37.5	179.3	Good returns		
03/14/2013	17:54:13	11.08	222	6.5	38.0	179.8			
03/14/2013	17:54:17	11.08	241	6.5	38.5	180.2	Took wet/dry samples		
03/14/2013	17:56:43	10.98	321	8.0	55.2	197.0			
03/14/2013	17:57:44	10.98	328	8.0	63.3	205.1	Wet sample=11.0 on mudscales		
03/14/2013	17:59:13	11.00	319	8.0	75.0	216.7			
03/14/2013	18:01:43	10.99	334	8.0	93.8	235.5			
03/14/2013	18:04:13	11.00	334	7.9	113.6	255.4			
03/14/2013	18:06:43	10.94	327	7.6	133.3	275.0			
03/14/2013	18:09:13	10.93	320	7.9	152.9	294.7			
03/14/2013	18:11:43	10.86	296	8.1	172.7	314.4			
03/14/2013	18:14:13	11.04	340	7.9	192.5	334.2			
03/14/2013	18:16:43	11.05	216	7.9	212.3	354.1			
03/14/2013	18:19:13	11.01	318	7.9	232.1	373.9			
03/14/2013	18:21:43	11.00	312	7.9	251.9	393.7			
03/14/2013	18:24:12	11.02	318	7.8	271.4	413.1	Good returns		
03/14/2013	18:24:13	11.02	318	7.8	271.5	413.3			
03/14/2013	18:26:43	11.03	320	7.8	291.0	432.8			
03/14/2013	18:29:13	11.04	341	7.8	310.5	452.3			
03/14/2013	18:31:43	11.03	323	7.8	330.0	471.8			
03/14/2013	18:34:13	11.01	359	7.8	349.6	491.4			
03/14/2013	18:36:43	11.01	330	7.8	369.2	510.9			
03/14/2013	18:38:53	11.10	262	7.8	386.0	527.8	End Lead Slurry		
03/14/2013	18:38:56	11.16	305	7.6	386.4	528.2	Start Mixing Scav Slurry		
03/14/2013	18:38:57	11.16	297	7.6	386.5	528.3	Bring to weight		
03/14/2013	18:39:13	11.65	269	7.4	388.6	530.3			
03/14/2013	18:40:13	12.58	352	7.9	1.2	538.2	End Scavenger Slurry		
03/14/2013	18:40:14	12.58	365	7.9	1.3	538.3	Start Mixing Tail Slurry		
03/14/2013	18:40:15	12.58	349	7.9	1.4	538.5	185 bbl 12.5 Tail		
03/14/2013	18:41:43	12.61	338	7.9	13.1	550.1			

Well			Field		Job Start		Customer	Job Number
SGU 8513A-36			Wildcat		Mar/14/2013		Encana	C610-01180
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	
03/14/2013	18:46:43	12.47	328	7.9	52.8	589.8	Good returns	
03/14/2013	18:46:51	12.47	327	7.9	53.9	590.9	385 bbl cement to surface	
03/14/2013	18:47:32	12.45	317	7.9	59.3	596.3	Took wet/dry samples	
03/14/2013	18:47:41	12.46	322	7.9	60.5	597.5	Wet sample=12.5 on mudscales	
03/14/2013	18:49:13	12.51	333	7.9	72.6	609.6		
03/14/2013	18:51:43	12.45	314	8.0	92.3	629.4		
03/14/2013	18:54:13	12.52	307	7.9	112.2	649.2		
03/14/2013	18:56:43	12.48	306	7.9	132.0	669.1		
03/14/2013	18:59:13	12.45	324	7.9	151.9	688.9		
03/14/2013	19:01:43	12.41	218	6.6	171.7	708.7		
03/14/2013	19:04:13	12.59	219	6.5	187.9	724.9		
03/14/2013	19:05:38	12.51	82	4.4	196.5	733.5	End Tail Slurry	
03/14/2013	19:05:39	12.51	81	4.1	196.6	733.6	End Cement Slurry	
03/14/2013	19:06:43	12.39	89	3.6	200.5	737.5		
03/14/2013	19:09:13	8.92	10	0.0	0.0	741.0		
03/14/2013	19:11:43	12.88	8	0.0	0.0	741.0		
03/14/2013	19:14:13	8.65	64	3.6	6.5	747.5		
03/14/2013	19:14:44	8.58	70	4.9	8.8	749.8	Drop Top Plug	
03/14/2013	19:14:45	8.58	70	4.9	8.9	749.9	Start Displacement	
03/14/2013	19:14:47	8.58	120	5.0	9.0	750.0	Displace 231 bbl H2O	
03/14/2013	19:16:43	8.47	215	7.9	20.8	761.8		
03/14/2013	19:18:44	8.41	225	7.9	36.8	777.8	Good returns	
03/14/2013	19:19:13	8.41	241	7.9	40.6	781.6		
03/14/2013	19:21:43	8.38	305	7.9	60.4	801.4		
03/14/2013	19:24:13	8.39	380	7.8	80.1	821.1		
03/14/2013	19:26:43	8.39	425	7.8	99.7	840.7		
03/14/2013	19:29:13	8.39	492	7.8	119.3	860.3		
03/14/2013	19:31:43	8.39	564	7.8	138.9	879.8		
03/14/2013	19:34:13	8.39	623	7.8	158.4	899.4		
03/14/2013	19:36:43	8.39	671	7.8	177.9	918.9		
03/14/2013	19:39:13	8.39	734	7.8	197.4	938.3		
03/14/2013	19:41:43	8.39	778	7.8	216.8	957.8		
03/14/2013	19:44:13	8.39	640	4.6	232.6	973.5		
03/14/2013	19:46:43	8.39	674	2.5	240.1	981.1		
03/14/2013	19:49:13	8.39	677	2.5	246.4	987.4		
03/14/2013	19:49:59	8.39	1146	2.5	248.3	989.3	Bump Top Plug	
03/14/2013	19:50:00	8.39	1244	2.5	248.3	989.3	Bumped plug @ 1200 PSI	
03/14/2013	19:51:43	8.39	1235	0.0	248.5	989.5		
03/14/2013	19:54:13	8.39	1236	0.0	248.5	989.5		
03/14/2013	19:56:43	8.39	1240	0.0	248.5	989.5		
03/14/2013	19:59:13	8.39	1243	0.0	248.5	989.5		
03/14/2013	20:01:43	8.39	833	0.0	248.5	989.5		
03/14/2013	20:02:57	8.39	-5	0.0	248.5	989.5	Float held	
03/14/2013	20:02:58	8.39	-5	0.0	248.5	989.5	1.25 bbl back	

Well	Field	Job Start	Customer	Job Number
SGU 8513A-36	Wildcat	Mar/14/2013	Encana	C610-01180

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
6.7			8.5		559.0	0.0	30.0	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density
3814	-4	403	1000			bbl		lb/gal
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?		Volume	
%	559.0 bbl		230.4 bbl	58 degF	<input checked="" type="checkbox"/>		385.0 bbl	
Customer or Authorized Representative			Schlumberger Supervisor			Washed Thru Perfs		To
						<input type="checkbox"/>		ft
Norm McCreary			Matt Fair/Ted Hansen			Circulation Lost		Job Completed
						<input type="checkbox"/>		<input checked="" type="checkbox"/>
						-		-



Service Quality Evaluation

Client:	Encana
Field:	Wildcat
Rig:	Patterson 326
Well:	SGU 8513A-36
Service Line:	Cementing
Job Type:	9 5/8" Surface

Service Order #:	
Date:	Mar/14/2013
Operating Time (hh:mm):	00:00
Client Rep:	Norm McCreary
Schlumberger Engineer:	Matt Fair/Ted Hansen
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 succesfully	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 succesfully	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 - 010353, 010288 Lead - 010240, 009642 Tail - 010268, 010257 ZONELOCK - 010285
Client Signature:	Schlumberger Signature: