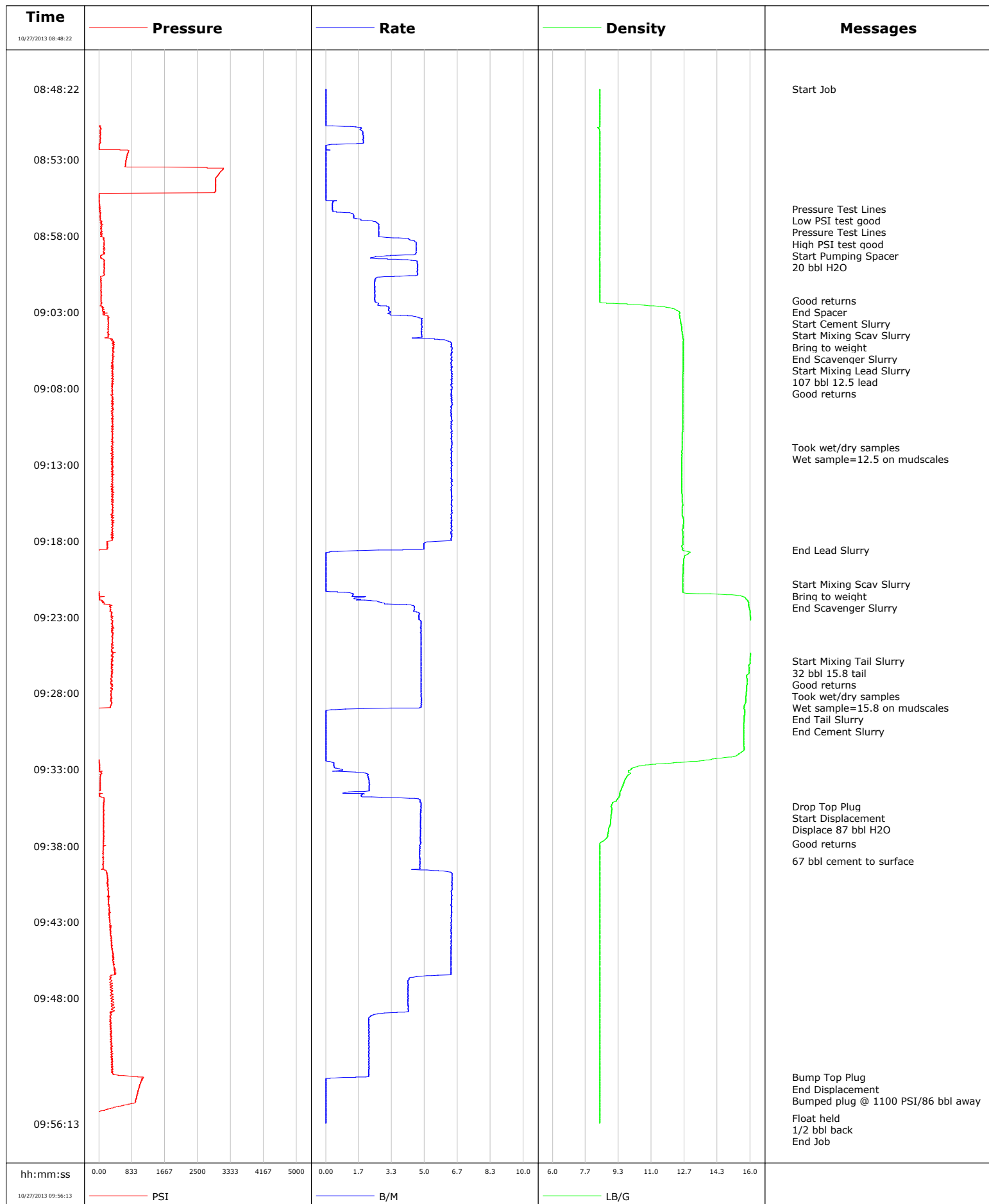


<b>Well</b>	Rose 22-6B	<b>Client</b>	Encana
<b>Field</b>	Mamm Creek	<b>SIR No.</b>	C459-01957
<b>Engineer</b>	Matt Fair/Brian David	<b>Job Type</b>	9 5/8" Surface
<b>Country</b>	United States	<b>Job Date</b>	10-27-2013



					Customer Encana			Job Number C459-01957			
Well Rose 22-6B				Location (legal)			Schlumberger Location			Job Start Oct/27/2013	
Field Mamm Creek			Formation Name/Type Shale			Deviation deg		Bit Size 12.5 in		Well MD 1164.0 ft	
County Garfield			State/Province Colorado			BHP psi		BHST 94 degF		BHCT 82 degF	
Well Master 0631485493			API/UWI							Pore Press. Gradient lb/gal	
Rig Name Patterson 303		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		1164.0		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	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type 9 5/8" Surface				Perforations/Open Hole					
Max. Allowed Tub. Press 3520 psi		Max. Allowed Ann. Press 2030 psi		WH Connection Single Cement head		Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
						ft		ft			
						ft		ft		Diameter in	
						ft		ft			
						Treat Down Casing		Displacement 87.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 90.0 bbl		Annular Vol. 75.0 bbl	
										Openhole Vol. 168.0 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 576 psi						Shoe Type Float				Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 1164.0 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 Oct/27/2013 08:00		Arrived on Location Oct/27/2013 08:00		Leave Location Oct/27/2013 12:00		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 1119.0 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				
10/27/2013	08:48:22	8.39	-9	0.0	0.0	0.0	Started Acquisition				
10/27/2013	08:48:23	8.39	-9	0.0	0.0	0.0	Start Job				
10/27/2013	08:50:52	8.38	31	1.5	0.1	0.1					
10/27/2013	08:53:22	8.39	667	0.0	2.2	2.2					
10/27/2013	08:55:52	8.39	12	0.3	2.2	2.2					
10/27/2013	08:56:15	8.39	20	0.3	2.4	2.4	Pressure Test Lines				
10/27/2013	08:56:16	8.39	19	0.3	2.4	2.4	Low PSI test good				
10/27/2013	08:56:17	8.39	21	0.3	2.4	2.4	Pressure Test Lines				
10/27/2013	08:56:18	8.39	25	0.3	2.4	2.4	High PSI test good				
10/27/2013	08:56:29	8.39	50	1.0	2.5	2.5	Start Pumping Spacer				
10/27/2013	08:56:30	8.39	30	1.2	2.5	2.5	20 bbl H2O				
10/27/2013	08:58:22	8.38	138	4.5	7.2	7.2					
10/27/2013	09:00:52	8.39	53	2.5	17.7	17.7					
10/27/2013	09:02:15	8.39	56	2.5	21.2	21.2	Good returns				
10/27/2013	09:02:17	8.38	54	2.5	0.0	21.2	End Spacer				
10/27/2013	09:02:20	8.39	61	2.5	0.1	21.4	Start Cement Slurry				
10/27/2013	09:02:23	8.42	62	2.6	0.2	21.5	Bring to weight				
10/27/2013	09:03:22	12.44	259	4.7	3.4	24.7					
10/27/2013	09:03:41	12.48	237	4.8	5.0	26.2	End Scavenger Slurry				
10/27/2013	09:03:43	12.48	238	4.9	5.1	26.4	Start Mixing Lead Slurry				
10/27/2013	09:03:44	12.48	235	4.9	5.2	26.5	107 bbl 12.5 lead				

Well			Field		Job Start		Customer		Job Number
Rose 22-6B			Mamm Creek		Oct/27/2013		Encana		C459-01957
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		
10/27/2013	09:07:57	12.58	343	6.4	30.4	51.6	Good returns		
10/27/2013	09:08:22	12.58	342	6.4	33.0	54.3			
10/27/2013	09:10:52	12.57	366	6.4	49.0	70.2			
10/27/2013	09:11:53	12.55	365	6.4	55.4	76.7	Took wet/dry samples		
10/27/2013	09:12:00	12.55	330	6.3	56.2	77.4	Wet sample=12.5 on mudscales		
10/27/2013	09:13:22	12.54	360	6.4	64.9	86.1			
10/27/2013	09:15:52	12.57	336	6.4	80.8	102.0			
10/27/2013	09:18:22	12.54	218	5.0	96.3	117.5			
10/27/2013	09:18:38	12.57	2	2.7	97.5	118.8	End Lead Slurry		
10/27/2013	09:20:51	12.58	-9	0.0	97.7	119.0	Start Mixing Scav Slurry		
10/27/2013	09:20:52	12.58	-9	0.0	97.7	119.0			
10/27/2013	09:20:53	12.58	-9	0.0	97.7	119.0	Bring to weight		
10/27/2013	09:22:12	15.92	277	4.1	99.3	120.5	End Scavenger Slurry		
10/27/2013	09:23:22	16.04	335	4.8	5.1	125.9			
10/27/2013	09:25:52	15.99	361	4.8	17.1	137.9			
10/27/2013	09:25:54	16.00	338	4.8	17.3	138.1	Start Mixing Tail Slurry		
10/27/2013	09:25:55	15.99	312	4.8	17.4	138.2	32 bbl 15.8 tail		
10/27/2013	09:25:57	16.00	315	4.8	17.5	138.3	Good returns		
10/27/2013	09:27:09	15.84	328	4.8	23.3	144.1	Took wet/dry samples		
10/27/2013	09:27:15	15.85	302	4.8	23.8	144.6	Wet sample=15.8 on mudscales		
10/27/2013	09:28:22	15.76	302	4.8	29.2	150.0			
10/27/2013	09:29:02	15.70	-4	1.0	32.3	153.2	End Tail Slurry		
10/27/2013	09:29:03	15.70	-2	1.0	32.4	153.2	End Cement Slurry		
10/27/2013	09:30:52	15.68	-8	0.0	32.4	153.2			
10/27/2013	09:33:22	9.84	33	2.1	0.7	153.9			
10/27/2013	09:35:25	8.96	114	4.8	6.4	159.6	Drop Top Plug		
10/27/2013	09:35:26	8.96	114	4.8	6.5	159.7	Start Displacement		
10/27/2013	09:35:27	8.96	118	4.8	6.5	159.8	Displace 87 bbl H2O		
10/27/2013	09:35:52	8.97	115	4.8	8.5	161.8			
10/27/2013	09:37:51	8.40	115	4.8	18.1	171.3	Good returns		
10/27/2013	09:38:22	8.38	98	4.8	20.5	173.7			
10/27/2013	09:39:00	8.38	106	4.8	23.5	176.8	67 bbl cement to surface		
10/27/2013	09:40:52	8.38	239	6.4	34.3	187.6			
10/27/2013	09:43:22	8.38	307	6.4	50.2	203.5			
10/27/2013	09:45:52	8.38	375	6.3	66.1	219.3			
10/27/2013	09:48:22	8.38	316	4.2	78.0	231.3			
10/27/2013	09:50:52	8.39	322	2.2	84.8	238.0			
10/27/2013	09:53:11	8.39	1116	1.5	89.8	243.1	Bump Top Plug		
10/27/2013	09:53:13	8.39	1124	0.9	89.9	243.1	Bumped plug @ 1100 PSI/86 bbl away		
10/27/2013	09:53:22	8.39	1079	0.0	89.9	243.2			
10/27/2013	09:55:52	8.39	-13	0.0	89.9	243.2	Float held		
10/27/2013	09:56:02	8.39	-13	0.0	89.9	243.2	1/2 bbl back		

<b>Well</b> Rose 22-6B	<b>Field</b> Mamm Creek	<b>Job Start</b> Oct/27/2013	<b>Customer</b> Encana	<b>Job Number</b> C459-01957
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.6	N2	Mud	Maximum Rate 6.4		Total Slurry 243.2	Mud 0.0	Spacer 21.3	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3161	Final -13	Average 353	Bump Plug to 1100	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 139.0 bbl	Displacement 83.4 bbl	Mix Water Temp 51 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 67.0 bbl		
					Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Charlie Brown			Schlumberger Supervisor Matt Fair/Brian David			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	



# Service Quality Evaluation

Client:	Encana
Field:	Mamm Creek
Rig:	Patterson 303
Well:	Rose 22-6B
Service Line:	Cementing
Job Type:	9 5/8" Surface

Service Order #:	
Date:	Oct/27/2013
Operating Time (hh:mm):	00:00
Client Rep:	Charlie Brown
Schlumberger Engineer:	Matt Fair/Brian David
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 - 010036, 009506 Lead - 009995 Tail - 009544
Client Signature:	Schlumberger Signature: