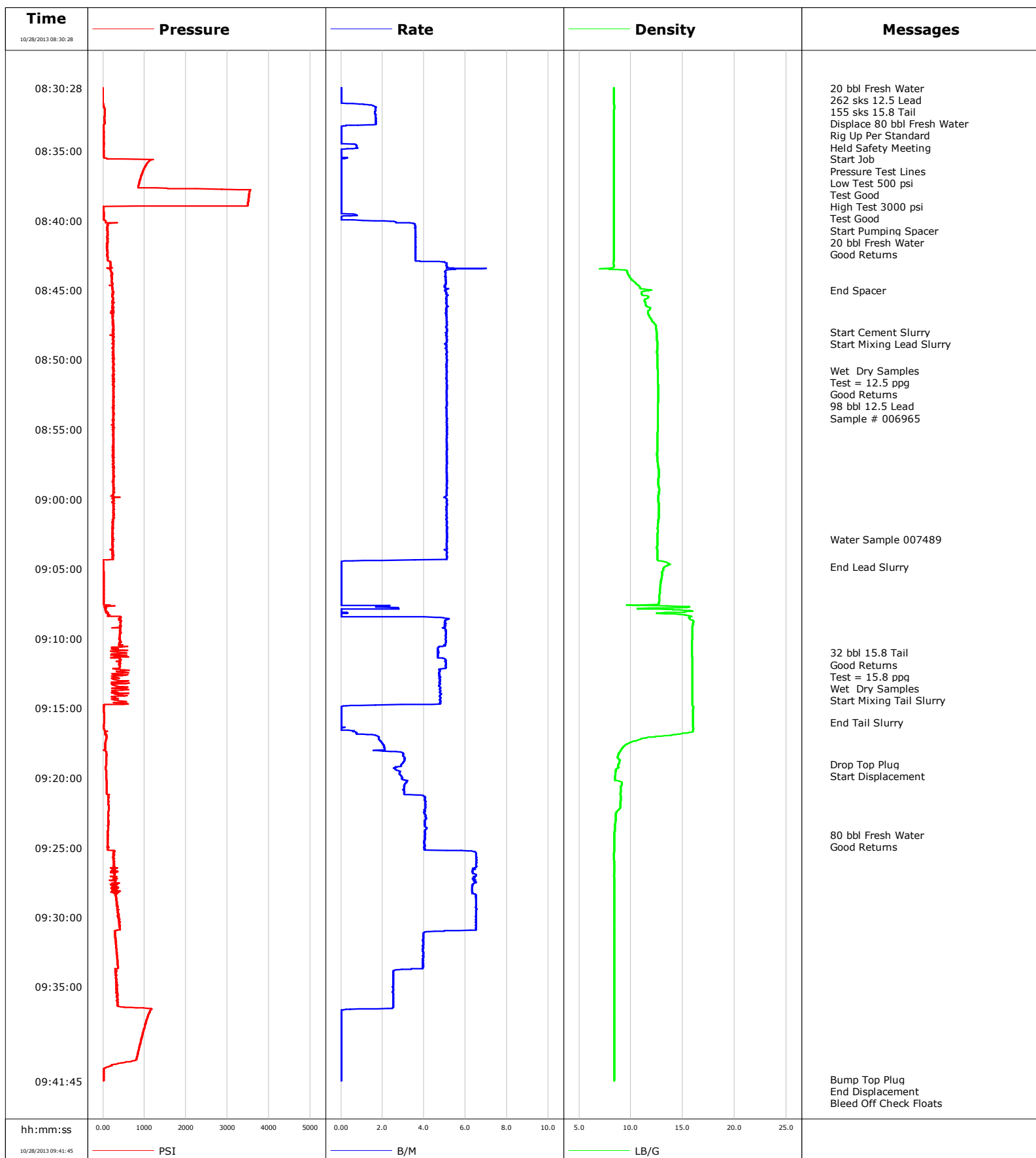


Well Rose 22-6A
Field Mamm Creek
Engineer Jordan Moreland / Stacy Terry
Country United States

Client Encana
SIR No. C459-01958
Job Type 9 5/8 Surface
Job Date 10-28-2013





Cementing Service Report

				Customer Encana		Job Number C459-01958		
Well Rose 22-6A			Location (legal) K22W		Schlumberger Location GCO		Job Start Oct/28/2013	
Field Mamm Creek		Formation Name/Type Shale		Deviation	Bit Size 12.7 in	Well MD	Well TVD	
County Garfield		State/Province Colorado		BHP	BHST 94 degF	BHCT 82 degF	Pore Press. Gradient	
Well Master 0631485489		API/UWI 05045221150000						
Rig Name Patterson 326		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	1079.0	9.630	36.0	K55	8RD
				0.0	0.000	0.0		
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe				
				Depth,	Size,	Weight,	Grade	Thread
Service Line Cementing		Job Type 9 5/8 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
								Diameter
				Treat Down Casing	Displacement 80.0 bbl	Packer Type	Packer Depth	
				Tubing Vol.	Casing Vol. 83.0 bbl	Annular Vol. 73.0 bbl	Openhole Vol. 160.0 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 534 psi				Shoe Type Guide		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1079.0 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 Oct/28/2013		Arrived on Location Oct/28/2013	Leave Location Oct/28/2013	Collar Type Float		Tail Pipe Depth		
				Collar Depth 1033.0 ft		Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/28/2013	07:54:21					Started Acquisition		
10/28/2013	08:30:28					20 bbl Fresh Water		
10/28/2013	08:30:28					262 sks 12.5 Lead		
10/28/2013	08:30:28	-1	0.0	8.38	0.0			
10/28/2013	08:30:29					155 sks 15.8 Tail		
10/28/2013	08:30:29					Displace 80 bbl Fresh Water		
10/28/2013	08:30:29					Rig Up Per Standard		
10/28/2013	08:30:29					Held Safety Meeting		
10/28/2013	08:30:29	-1	0.0	8.38	0.0			
10/28/2013	08:30:30					Start Job		
10/28/2013	08:30:30	-1	0.0	8.38	0.0			
10/28/2013	08:30:31					Pressure Test Lines		
10/28/2013	08:30:31	-1	0.0	8.38	0.0			
10/28/2013	08:30:32					Low Test 500 psi		
10/28/2013	08:30:32					Test Good		
10/28/2013	08:30:32					High Test 3000 psi		
10/28/2013	08:30:32	-1	0.0	8.38	0.0			
10/28/2013	08:30:33					Test Good		
10/28/2013	08:30:33	-1	0.0	8.38	0.0			
10/28/2013	08:32:21	43	1.6	8.37	1.1			
10/28/2013	08:34:21	12	0.0	8.38	2.5			

Well			Field	Job Start		Customer	Job Number
Rose 22-6A			Mamm Creek	Oct/28/2013		Encana	C459-01958
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/28/2013	08:38:21	3515	0.0	8.38	2.8		
10/28/2013	08:40:00					Start Pumping Spacer	
10/28/2013	08:40:00					20 bbl Fresh Water	
10/28/2013	08:40:00					Good Returns	
10/28/2013	08:40:00	66	1.1	8.38	2.9		
10/28/2013	08:40:21	120	3.6	8.38	3.9		
10/28/2013	08:42:21	118	3.6	8.38	11.1		
10/28/2013	08:44:21	221	5.0	10.23	20.5		
10/28/2013	08:45:00					End Spacer	
10/28/2013	08:45:00	248	5.0	12.00	23.7		
10/28/2013	08:46:21	233	5.1	11.85	30.6		
10/28/2013	08:48:00					Start Cement Slurry	
10/28/2013	08:48:00					Start Mixing Lead Slurry	
10/28/2013	08:48:00	254	5.1	12.49	39.0		
10/28/2013	08:48:21	280	5.1	12.49	40.8		
10/28/2013	08:50:21	256	5.1	12.55	51.0		
10/28/2013	08:50:45					Wet Dry Samples	
10/28/2013	08:50:45					Test = 12.5 ppg	
10/28/2013	08:50:45	245	5.1	12.58	53.0		
10/28/2013	08:50:46					Good Returns	
10/28/2013	08:50:46					98 bbl 12.5 Lead	
10/28/2013	08:50:46					Sample # 006965	
10/28/2013	08:50:46	245	5.1	12.58	53.1		
10/28/2013	08:52:21	255	5.1	12.62	61.1		
10/28/2013	08:54:21	255	5.1	12.59	71.3		
10/28/2013	08:56:21	259	5.1	12.54	81.5		
10/28/2013	08:58:21	264	5.1	12.68	91.7		
10/28/2013	09:00:21	241	5.1	12.69	101.9		
10/28/2013	09:02:21	225	5.1	12.58	112.1		
10/28/2013	09:02:53					Water Sample 007489	
10/28/2013	09:02:53	232	5.1	12.57	114.8		
10/28/2013	09:04:21	239	5.1	12.56	122.3		
10/28/2013	09:04:50					End Lead Slurry	
10/28/2013	09:04:50	8	0.0	13.31	122.5		
10/28/2013	09:06:21	21	0.0	12.81	122.5		
10/28/2013	09:08:21	155	0.0	15.46	123.1		
10/28/2013	09:10:21	390	5.0	15.89	132.6		
10/28/2013	09:11:00					32 bbl 15.8 Tail	
10/28/2013	09:11:00					Good Returns	
10/28/2013	09:11:00					Test = 15.8 ppg	
10/28/2013	09:11:00					Wet Dry Samples	
10/28/2013	09:11:00					Start Mixing Tail Slurry	
10/28/2013	09:11:00	427	4.7	15.89	135.7		
10/28/2013	09:12:21	387	4.8	15.91	142.3		
10/28/2013	09:14:21	212	4.8	15.93	151.8		
10/28/2013	09:16:00					End Tail Slurry	
10/28/2013	09:16:00	27	0.0	15.99	153.8		
10/28/2013	09:16:21	19	0.0	15.99	153.8		
10/28/2013	09:18:21	85	3.0	8.80	157.1		
10/28/2013	09:19:00					Drop Top Plug	
10/28/2013	09:19:00					Start Displacement	
10/28/2013	09:19:00	79	3.0	8.83	159.1		
10/28/2013	09:20:21	90	3.1	9.11	163.0		
10/28/2013	09:22:21	134	4.1	8.74	170.2		

Well			Field		Job Start	Customer	Job Number
Rose 22-6A			Mamm Creek		Oct/28/2013	Encana	C459-01958
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/28/2013	09:24:05					Good Returns	
10/28/2013	09:24:05	114	4.1	8.42	177.2		
10/28/2013	09:24:21	115	4.1	8.41	178.3		
10/28/2013	09:26:21	274	6.5	8.38	189.2		
10/28/2013	09:28:21	321	6.5	8.38	202.0		
10/28/2013	09:30:21	391	6.5	8.38	215.0		
10/28/2013	09:32:21	325	3.9	8.38	224.5		
10/28/2013	09:34:21	305	2.5	8.38	231.6		
10/28/2013	09:36:21	347	2.5	8.38	236.6		
10/28/2013	09:38:21	960	0.0	8.39	237.2		
10/28/2013	09:40:21	689	0.0	8.39	237.2		
10/28/2013	09:41:38					Bump Top Plug	
10/28/2013	09:41:38					End Displacement	
10/28/2013	09:41:38	18	0.0	8.39	237.2		
10/28/2013	09:41:40					Bleed Off Check Floats	
10/28/2013	09:41:40	18	0.0	8.39	237.2		
10/28/2013	09:41:41					Floats Held	
10/28/2013	09:41:41					1/4 bbl Back	
10/28/2013	09:41:41					65 bbl Cement Back	
10/28/2013	09:41:41					Rig Down	
10/28/2013	09:41:41	18	0.0	8.39	237.2		
10/28/2013	09:41:43					End Job	
10/28/2013	09:41:43	18	0.0	8.39	237.2		

Post Job Summary

Average Pump Rates,					Volume of Fluid Injected,			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
Treating Pressure Summary,					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density
Avg. N2 Percent		Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?		Volume
					64 degF	Washed Thru Perfs		To
Customer or Authorized Representative				Schlumberger Supervisor		Circulation Lost		Job Completed
Charlie Brown				Jordan Moreland / Stacy Terry		-		-