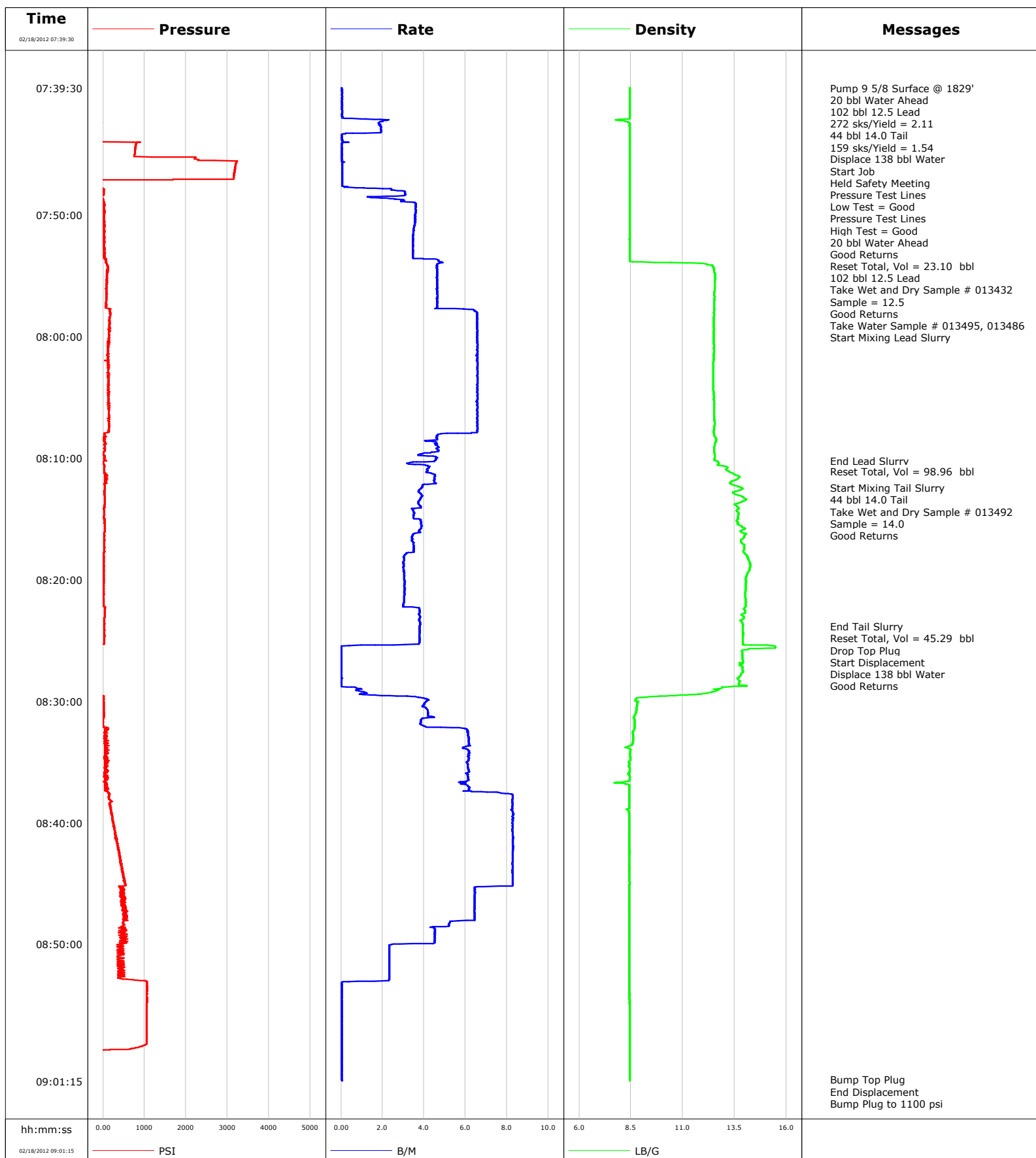


Well EF16F
Field N PARACHUTE
Engineer Tom Leduc
Country United States

Client ENCANA
SIR No.
Job Type 9 5/8 SURFACE
Job Date 02-18-2012





Cementing Service Report

				Customer ENCANA		Job Number BQMF-00862		
Well EF16F EF01B			Location (legal) N PARACHUTE		Schlumberger Location Grand Junction		Job Start Feb/18/2012	
Field N PARACHUTE		Formation Name/Type Shale		Deviation 0 deg	Bit Size 12.3 in	Well MD 1829.0 ft		Well TVD 1829.0 ft
County GARFIELD		State/Province Colorado		BHP	BHST 100 degF	BHCT 87 degF	Pore Press. Gradient	
Well Master 0631244224		API/UWI						
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	1829.0	9.630	36.0	J55	8RD	
			0.0	0.000	0.0			
Drilling Fluid Type Bentonite		Max. Density 9.20 lb/gal	Plastic Viscosity 57.000 cP	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 500 psi	WH Connection Single Cement head	Perforations/Open Hole					
			Top,	Bottom,		No. of Shots	Total Interval	
							Diameter	
Service Instructions 9 5/8 SURFACE @ 1829'				Treat Down Casing	Displacement 138.0 bbl	Packer Type	Packer Depth	
				Tubing Vol.	Casing Vol. 140.0 bbl	Annular Vol. 112.0 bbl	Openhole Vol. 263.0 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 905 psi				Shoe Type Float		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1817.0 ft		Tool Type		
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type		Tool Depth		
Cement Head Type Single				Stage Tool Depth		Tail Pipe Size		
Job Scheduled For Feb/18/2012 04:00		Arrived on Location Feb/18/2012 04:00	Leave Location Feb/18/2012 11:00	Collar Type Float		Tail Pipe Depth		
				Collar Depth 1769.0 ft		Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
02/18/2012	07:39:30	-70	0.0	8.45	0.0			
02/18/2012	07:39:31					Pump 9 5/8 Surface @ 1829'		
02/18/2012	07:39:31					20 bbl Water Ahead		
02/18/2012	07:39:31					102 bbl 12.5 Lead		
02/18/2012	07:39:31	-70	0.1	8.45	0.0			
02/18/2012	07:39:32					272 sks/Yield = 2.11		
02/18/2012	07:39:32					44 bbl 14.0 Tail		
02/18/2012	07:39:32					159 sks/Yield = 1.54		
02/18/2012	07:39:32					Displace 138 bbl Water		
02/18/2012	07:39:32	-70	0.0	8.45	0.0			
02/18/2012	07:39:33					Start Job		
02/18/2012	07:39:33	-70	0.1	8.45	0.0			
02/18/2012	07:39:34					Held Safety Meeting		
02/18/2012	07:39:34	-70	0.0	8.45	0.0			
02/18/2012	07:39:35					Pressure Test Lines		
02/18/2012	07:39:35	-70	0.0	8.45	0.0			
02/18/2012	07:39:36					Low Test = Good		
02/18/2012	07:39:36	-70	0.0	8.45	0.0			
02/18/2012	07:39:37					Pressure Test Lines		
02/18/2012	07:39:37					High Test = Good		
02/18/2012	07:39:37	-70	0.1	8.45	0.0			

Well			Field		Job Start	Customer	Job Number
EF16F EF01B			N PARACHUTE		Feb/18/2012	ENCANA	BQMF-00862
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/18/2012	07:39:38					Good Returns	
02/18/2012	07:39:38	-70	0.0	8.45	0.0		
02/18/2012	07:41:10	-71	0.1	8.45	0.1		
02/18/2012	07:42:50	-41	1.9	8.44	1.6		
02/18/2012	07:44:30	778	0.0	8.44	2.5		
02/18/2012	07:46:10	3183	0.1	8.44	2.6		
02/18/2012	07:47:50	2	2.3	8.45	2.8		
02/18/2012	07:49:30	38	3.6	8.44	7.8		
02/18/2012	07:51:10	43	3.5	8.44	13.8		
02/18/2012	07:52:50	44	3.5	8.44	19.6		
02/18/2012	07:53:47					Reset Total, Vol = 23.10 bbl	
02/18/2012	07:53:47	77	4.7	8.43	23.1		
02/18/2012	07:53:48					102 bbl 12.5 Lead	
02/18/2012	07:53:48					Take Wet and Dry Sample # 013432	
02/18/2012	07:53:48					Sample = 12.5	
02/18/2012	07:53:48					Good Returns	
02/18/2012	07:53:48					Take Water Sample # 013495, 013486	
02/18/2012	07:53:48	79	4.7	8.43	23.2		
02/18/2012	07:54:30	122	4.6	12.50	26.4		
02/18/2012	07:54:53					Start Mixing Lead Slurry	
02/18/2012	07:54:53	99	4.6	12.56	28.2		
02/18/2012	07:56:10	90	4.6	12.53	34.2		
02/18/2012	07:57:50	162	6.4	12.50	42.1		
02/18/2012	07:59:30	168	6.6	12.50	53.0		
02/18/2012	08:01:10	130	6.6	12.50	64.0		
02/18/2012	08:02:50	130	6.6	12.46	74.9		
02/18/2012	08:04:30	146	6.6	12.48	85.9		
02/18/2012	08:06:10	138	6.6	12.52	96.9		
02/18/2012	08:07:50	140	6.6	12.49	107.8		
02/18/2012	08:09:30	23	4.4	12.50	115.7		
02/18/2012	08:10:14					End Lead Slurry	
02/18/2012	08:10:14	47	4.5	12.66	118.9		
02/18/2012	08:11:02					Reset Total, Vol = 98.96 bbl	
02/18/2012	08:11:02	29	4.2	13.19	122.1		
02/18/2012	08:11:10	37	4.1	13.31	122.6		
02/18/2012	08:12:25					Start Mixing Tail Slurry	
02/18/2012	08:12:25	41	3.9	13.82	128.1		
02/18/2012	08:12:39					44 bbl 14.0 Tail	
02/18/2012	08:12:39	43	3.8	13.72	129.0		
02/18/2012	08:12:40					Take Wet and Dry Sample # 013492	
02/18/2012	08:12:40					Sample = 14.0	
02/18/2012	08:12:40					Good Returns	
02/18/2012	08:12:40	42	3.7	13.69	129.0		
02/18/2012	08:12:50	39	3.8	13.42	129.6		
02/18/2012	08:14:30	34	3.5	13.69	135.9		
02/18/2012	08:16:10	33	3.6	13.93	142.1		
02/18/2012	08:17:50	16	3.2	13.99	147.9		
02/18/2012	08:19:30	16	3.0	14.12	152.9		
02/18/2012	08:21:10	21	3.1	14.02	158.0		
02/18/2012	08:22:50	40	3.7	13.89	163.5		
02/18/2012	08:23:50					End Tail Slurry	
02/18/2012	08:23:50	29	3.8	13.90	167.3		
02/18/2012	08:23:51					Reset Total, Vol = 45.29 bbl	
02/18/2012	08:23:51	29	3.8	13.90	167.4		

Well			Field		Job Start	Customer		Job Number
EF16F EF01B			N PARACHUTE		Feb/18/2012	ENCANA		BQMF-00862
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/18/2012	08:23:55	31		3.8	13.89	167.6		
02/18/2012	08:23:56						Start Displacement	
02/18/2012	08:23:56	31		3.8	13.89	167.7		
02/18/2012	08:23:57						Displace 138 bbl Water	
02/18/2012	08:23:57						Good Returns	
02/18/2012	08:23:57	31		3.8	13.90	167.7		
02/18/2012	08:24:30	36		3.8	13.91	169.8		
02/18/2012	08:26:10	-61		0.0	13.87	173.1		
02/18/2012	08:27:50	-51		0.0	13.81	173.1		
02/18/2012	08:29:30	-34		1.6	10.89	173.8		
02/18/2012	08:31:10	22		4.2	8.68	180.4		
02/18/2012	08:32:50	75		6.1	8.62	188.4		
02/18/2012	08:34:30	47		6.1	8.45	198.6		
02/18/2012	08:36:10	80		6.1	8.43	208.9		
02/18/2012	08:37:50	149		8.3	8.43	219.7		
02/18/2012	08:39:30	217		8.3	8.43	233.5		
02/18/2012	08:41:10	308		8.3	8.43	247.3		
02/18/2012	08:42:50	424		8.3	8.43	261.1		
02/18/2012	08:44:30	486		8.3	8.43	274.9		
02/18/2012	08:46:10	467		6.5	8.43	287.0		
02/18/2012	08:47:50	579		6.4	8.43	297.7		
02/18/2012	08:51:10	460		2.3	8.43	310.9		
02/18/2012	08:52:50	429		2.3	8.43	314.8		
02/18/2012	08:54:30	1059		0.0	8.43	315.3		
02/18/2012	08:56:10	1058		0.0	8.43	315.4		
02/18/2012	08:57:50	1057		0.0	8.43	315.4		
02/18/2012	08:59:30	-64		0.0	8.43	315.5		
02/18/2012	09:01:10						Bump Top Plug	
02/18/2012	09:01:10						End Displacement	
02/18/2012	09:01:10	-65		0.0	8.43	315.5		
02/18/2012	09:01:12						Bump Plug to 1100 psi	
02/18/2012	09:01:12						Bled Off Pressure	
02/18/2012	09:01:12						0.5 bbl Back	
02/18/2012	09:01:12						Floats Held	
02/18/2012	09:01:12						18 bbl Cement to Surface	
02/18/2012	09:01:12						Rig Down	
02/18/2012	09:01:12	-65		0.1	8.43	315.5		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 4.0	N2	Mud 0.0	Maximum Rate 8.3	Total Slurry 315.5	Mud 0.0	Spacer 28.2	N2				
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 3248	Final 0	Average 314	Bump Plug to 900	Breakdown	Type FreshWater	Volume 350.0 bbl	Density 8.34 lb/gal				
Avg. N2 Percent		Designed Slurry Volume 146.0 bbl		Displacement 147.9 bbl		Mix Water Temp 75 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume	
						Washed Thru Perfs <input type="checkbox"/>		To			
Customer or Authorized Representative FLOYD ROBERTS				Schlumberger Supervisor Tom Leduc				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>	
								-		-	