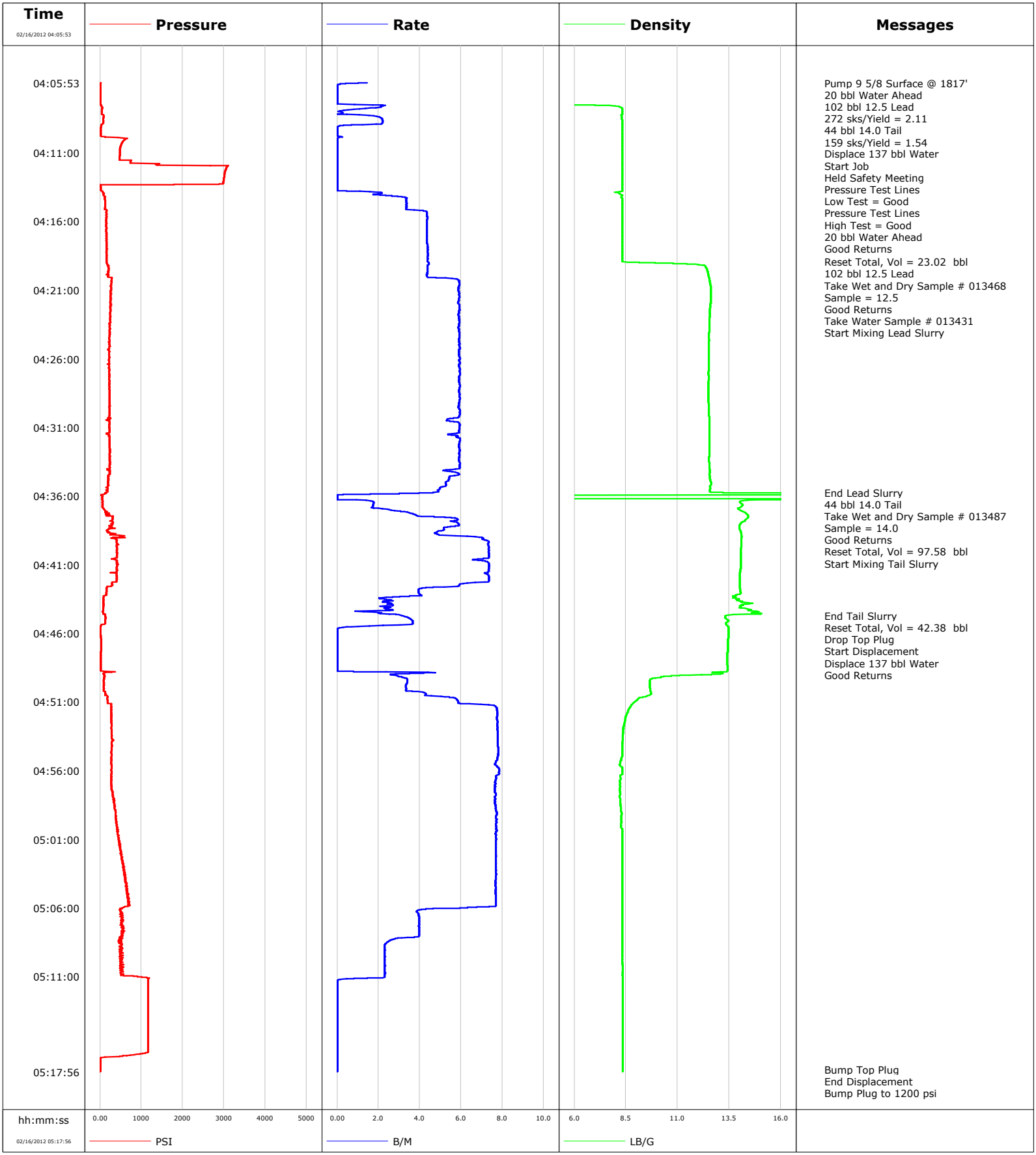
Schlumberger Cementing Job Report

Well	EF01B-34D	**Client**	ENCANA
Field	N PARACHUTE	**SIR No.**	
Engineer	Tom Leduc	**Job Type**	9 5/8 SURFACE
Country	United States	**Job Date**	02-16-2012



Cementing Service Report

Customer	Job Number
ENCANA	BQMF-00861

Well	Location (legal)	Schlumberger Location	Job Start
EF01B-34D EF01B	N PARACHUTE	Grand Junction	Feb/16/2012

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
N PARACHUTE	Shale	0 deg	12.3 in	1817.0 ft	1817.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
GARFIELD	Colorado		100 degF	87 degF	

Well Master	API/UWI
0631244224	

Rig Name	Drilled For	Service Via
PATTERSON 303	Gas	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
Bentonite	9.20 lb/gal	57.000 cP

Service Line	Job Type
Cementing	9 5/8 SURFACE

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
3000 psi	500 psi	Single Cement head

Service Instructions

9 5/8 SURFACE @ 1817'

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1817.0	9.630	36.0	J55	8RD
0.0	0.000	0.0		

Tubing/Drill Pipe

Depth,	Size,	Weight,	Grade	Thread

Perforations/Open Hole

Top,	Bottom,		No. of Shots	Total Interval
				Diameter

Treat Down	Displacement	Packer Type	Packer Depth
Casing	137.0 bbl		

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
	140.0 bbl	111.0 bbl	261.0 bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement
X	X

Lift Pressure	Pipe Rotated	Pipe Reciprocated
899 psi	☐	☐

No. Centralizers	Top Plugs	Bottom Plugs

Cement Head Type
Single

Job Scheduled For	Arrived on Location	Leave Location
Feb/16/2012 01:00	Feb/16/2012 01:00	Feb/16/2012 07:00

Casing Tools		Squeeze Job	
Shoe Type	Float	Squeeze Type	
Shoe Depth	1817.0 ft	Tool Type	
Stage Tool Type		Tool Depth	
Stage Tool Depth		Tail Pipe Size	
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
02/16/2012	04:05:53	17	1.5	1.11	0.0	
02/16/2012	04:05:54					Pump 9 5/8 Surface @ 1817'
02/16/2012	04:05:54					20 bbl Water Ahead
02/16/2012	04:05:54					102 bbl 12.5 Lead
02/16/2012	04:05:54					272 sks/Yield = 2.11
02/16/2012	04:05:54	17	1.5	1.11	0.0	
02/16/2012	04:05:55					44 bbl 14.0 Tail
02/16/2012	04:05:55					159 sks/Yield = 1.54
02/16/2012	04:05:55					Displace 137 bbl Water
02/16/2012	04:05:55	15	1.0	0.93	0.1	
02/16/2012	04:05:56					Start Job
02/16/2012	04:05:56	10	1.0	0.93	0.1	
02/16/2012	04:05:57					Held Safety Meeting
02/16/2012	04:05:57	10	0.4	0.81	0.1	
02/16/2012	04:05:59					Pressure Test Lines
02/16/2012	04:05:59	8	0.2	0.75	0.1	
02/16/2012	04:06:00					Low Test = Good
02/16/2012	04:06:00	7	0.2	0.75	0.1	
02/16/2012	04:06:01					Pressure Test Lines
02/16/2012	04:06:01	7	0.1	0.68	0.1	
02/16/2012	04:06:02					High Test = Good

Well	Field	Job Start	Customer	Job Number
EF01B-34D EF01B	N PARACHUTE	Feb/16/2012	ENCANA	BQMF-00861

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
02/16/2012	04:06:03					20 bbl Water Ahead
02/16/2012	04:06:03					Good Returns
02/16/2012	04:06:03	7	0.0	0.63	0.1	
02/16/2012	04:07:33	33	2.2	7.00	0.3	
02/16/2012	04:09:13	23	0.0	8.33	2.4	
02/16/2012	04:10:53	482	0.0	8.33	2.4	
02/16/2012	04:12:33	3014	0.0	8.33	2.4	
02/16/2012	04:14:13	118	3.1	8.27	3.4	
02/16/2012	04:15:53	149	4.4	8.33	9.6	
02/16/2012	04:17:33	159	4.4	8.32	16.9	
02/16/2012	04:18:57					Reset Total, Vol = 23.02 bbl
02/16/2012	04:18:57	159	4.4	8.34	23.0	
02/16/2012	04:18:58					102 bbl 12.5 Lead
02/16/2012	04:18:58					Take Wet and Dry Sample # 013468
02/16/2012	04:18:58					Sample = 12.5
02/16/2012	04:18:58	159	4.4	8.58	23.1	
02/16/2012	04:18:59					Good Returns
02/16/2012	04:18:59					Take Water Sample # 013431
02/16/2012	04:18:59	163	4.4	9.15	23.2	
02/16/2012	04:19:13	204	4.4	12.32	24.2	
02/16/2012	04:20:02					Start Mixing Lead Slurry
02/16/2012	04:20:02	199	4.4	12.51	27.8	
02/16/2012	04:20:53	266	5.9	12.61	32.6	
02/16/2012	04:22:33	257	5.9	12.57	42.5	
02/16/2012	04:24:13	241	5.9	12.52	52.3	
02/16/2012	04:25:53	227	5.9	12.51	62.2	
02/16/2012	04:27:33	230	5.9	12.50	72.0	
02/16/2012	04:29:13	232	5.9	12.50	81.9	
02/16/2012	04:30:53	223	5.9	12.53	91.6	
02/16/2012	04:32:33	239	5.9	12.53	101.4	
02/16/2012	04:34:13	235	5.6	12.56	111.1	
02/16/2012	04:35:43					End Lead Slurry
02/16/2012	04:35:43	146	4.7	12.62	119.1	
02/16/2012	04:35:53	92	0.3	18.53	119.7	
02/16/2012	04:36:24					44 bbl 14.0 Tail
02/16/2012	04:36:24	66	1.8	14.02	119.9	
02/16/2012	04:36:25					Take Wet and Dry Sample # 013487
02/16/2012	04:36:25					Sample = 14.0
02/16/2012	04:36:25					Good Returns
02/16/2012	04:36:25	64	1.8	14.02	119.9	
02/16/2012	04:36:49					Reset Total, Vol = 97.58 bbl
02/16/2012	04:36:49	64	1.7	14.05	120.6	
02/16/2012	04:37:33	306	5.2	14.42	123.0	
02/16/2012	04:38:06					Start Mixing Tail Slurry
02/16/2012	04:38:06	291	5.9	14.02	126.1	
02/16/2012	04:39:13	405	7.2	14.09	132.4	
02/16/2012	04:40:53	407	7.3	14.06	144.6	
02/16/2012	04:42:33	288	5.9	14.01	156.4	
02/16/2012	04:44:13	81	2.4	14.33	161.8	
02/16/2012	04:44:43					End Tail Slurry
02/16/2012	04:44:43					Reset Total, Vol = 42.38 bbl
02/16/2012	04:44:43	128	3.1	13.33	163.0	
02/16/2012	04:44:44					Drop Top Plug
02/16/2012	04:44:44					Start Displacement

Well	Field	Job Start	Customer	Job Number
EF01B-34D EF01B	N PARACHUTE	Feb/16/2012	ENCANA	BQMF-00861

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
02/16/2012	04:44:45					Displace 137 bbl Water
02/16/2012	04:44:45					Good Returns
02/16/2012	04:44:45	130	3.2	13.31	163.1	
02/16/2012	04:45:53	11	0.0	13.46	165.6	
02/16/2012	04:47:33	19	0.0	13.39	165.6	
02/16/2012	04:49:13	99	3.2	10.20	167.0	
02/16/2012	04:50:53	189	5.8	9.02	173.6	
02/16/2012	04:52:33	276	7.8	8.42	186.0	
02/16/2012	04:54:13	287	7.8	8.33	198.9	
02/16/2012	04:55:53	277	7.8	8.32	211.8	
02/16/2012	04:57:33	306	7.6	8.22	224.7	
02/16/2012	04:59:13	392	7.7	8.29	237.4	
02/16/2012	05:00:53	455	7.7	8.33	250.3	
02/16/2012	05:02:33	527	7.7	8.33	263.1	
02/16/2012	05:04:13	651	7.7	8.33	275.9	
02/16/2012	05:05:53	686	7.7	8.33	288.7	
02/16/2012	05:07:33	546	4.0	8.33	295.7	
02/16/2012	05:09:13	480	2.3	8.33	300.7	
02/16/2012	05:10:53	503	2.3	8.33	304.5	
02/16/2012	05:12:33	1161	0.0	8.34	305.1	
02/16/2012	05:14:13	1159	0.0	8.34	305.1	
02/16/2012	05:15:53	1159	0.0	8.34	305.1	
02/16/2012	05:17:33	2	0.0	8.34	305.1	
02/16/2012	05:17:46					Bump Top Plug
02/16/2012	05:17:46	2	0.0	8.35	305.1	
02/16/2012	05:17:47					End Displacement
02/16/2012	05:17:47	2	0.0	8.35	305.1	
02/16/2012	05:17:48					Bump Plug to 1200 psi
02/16/2012	05:17:48					Bled Off Pressure
02/16/2012	05:17:48					0.5 bbl Back
02/16/2012	05:17:48					Floats Held
02/16/2012	05:17:48					14 bbl Cement to Surface
02/16/2012	05:17:48	2	0.0	8.35	305.1	
02/16/2012	05:17:49					Rig Down
02/16/2012	05:17:49	2	0.0	8.35	305.1	
02/16/2012	05:17:52					End Job

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.4		0.0	7.8	305.1	0.0	27.6	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3117	0	391	900		FreshWater	350.0 bbl	8.34 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
	146.0 bbl	142.1 bbl	70 degF	[x]	
				Washed Thru Perfs [ ]	To

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
FLOYD ROBERTS	Tom Leduc	[ ] -	[x] -