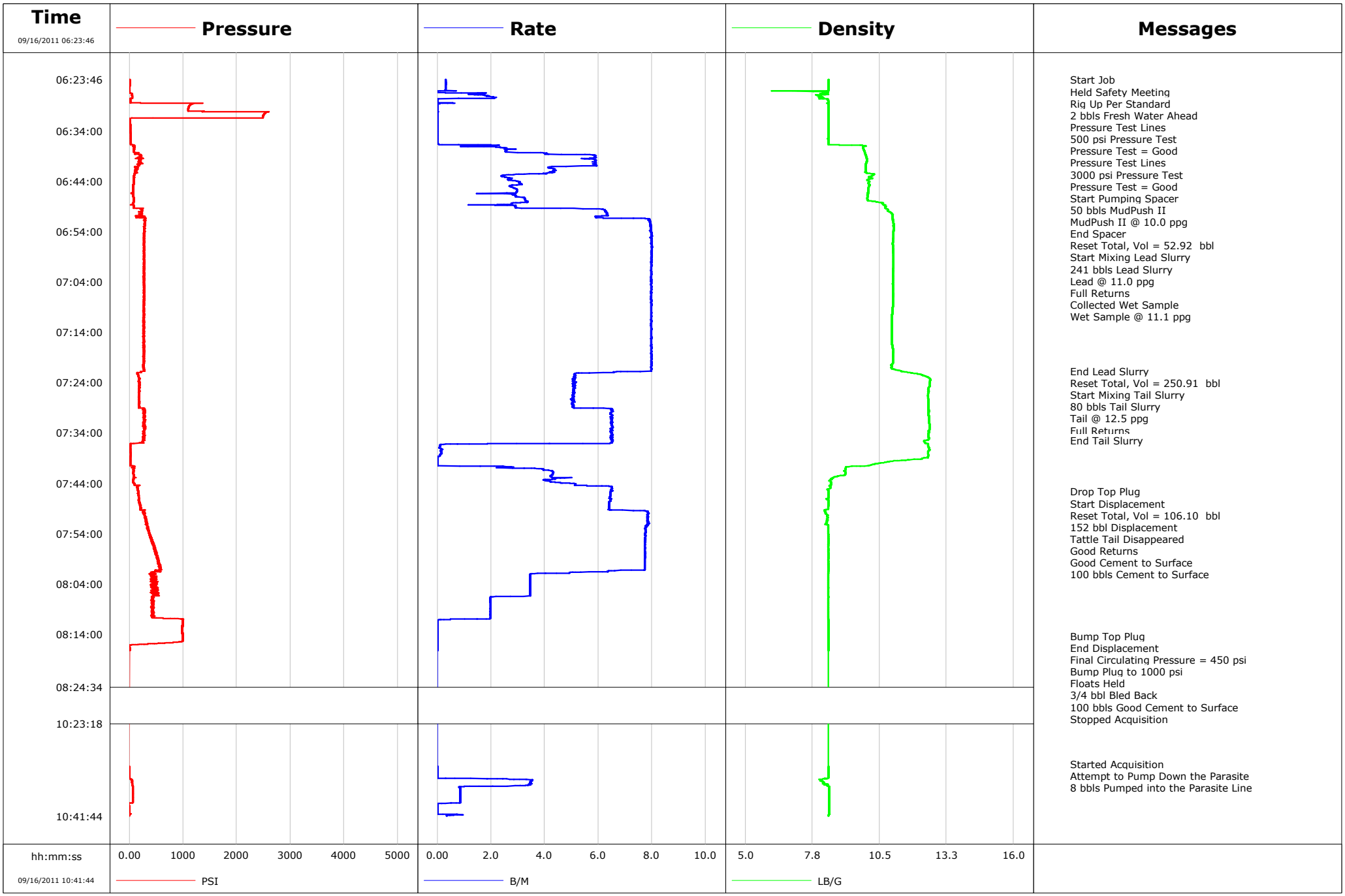
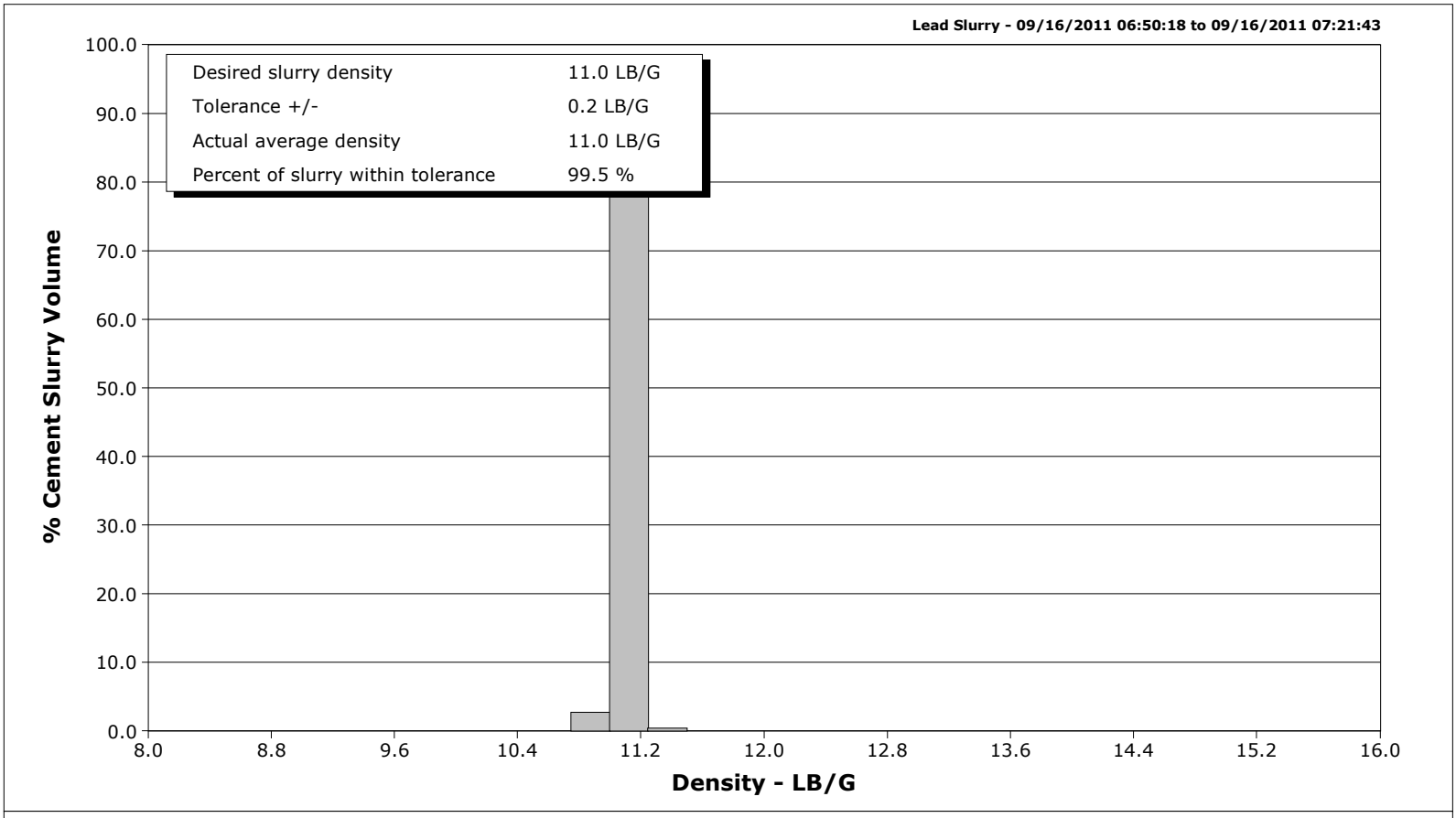
Schlumberger Cementing Job Report

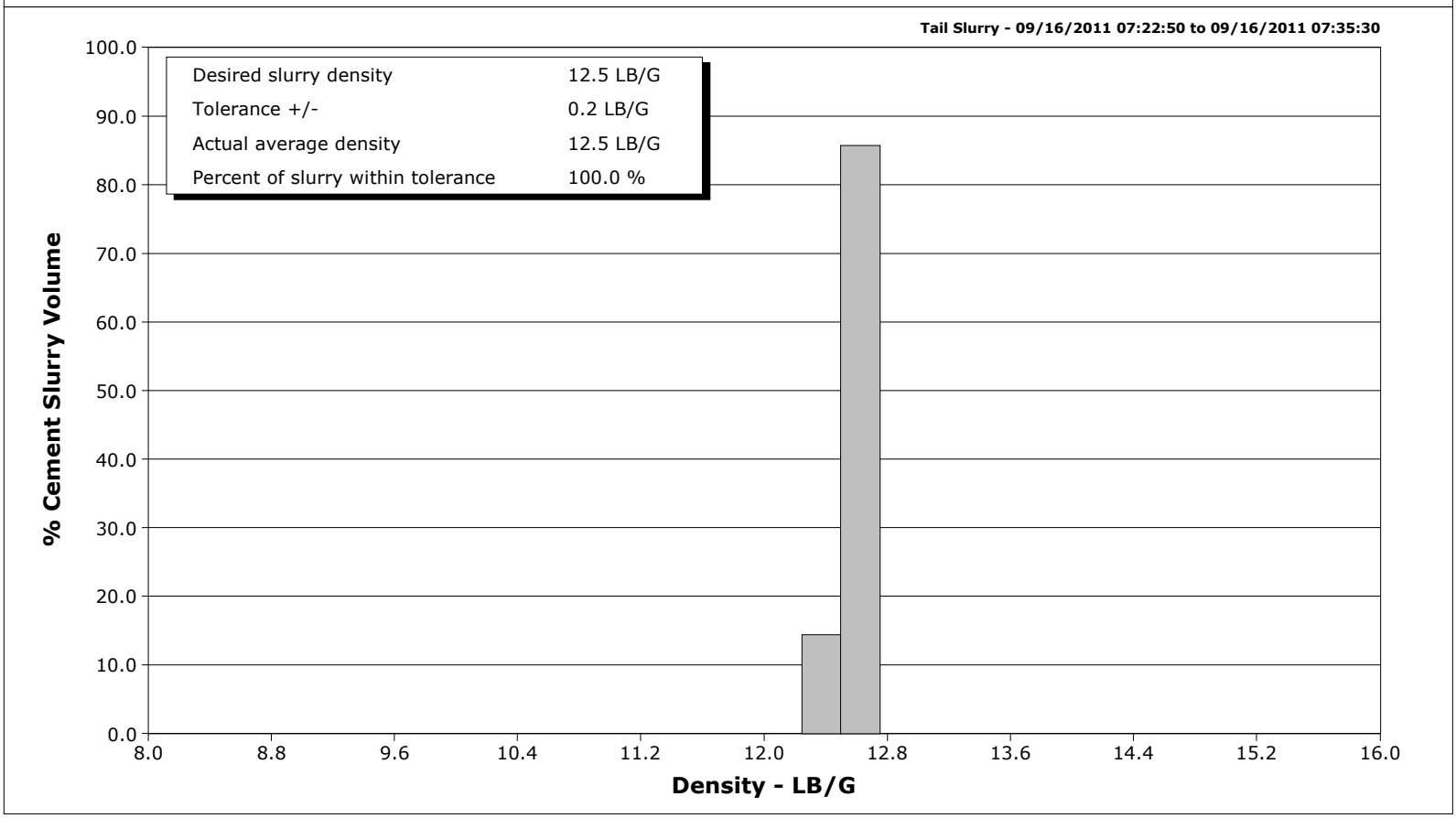
Well	DW 8603A-33	**Client**	EnCana
Field	Double Willow	**SIR No.**	BUNM-00119
Engineer	Ryan Bowditch	**Job Type**	9 5/8" Surface Casing
Country	United States	**Job Date**	09-16-2011



Schlumberger Cementing Qa/Qc Density Report

Well	DW 8603A-33	**Client**	EnCana
Field	Double Willow	**SIR No.**	BUNM-00119
Engineer	Ryan Bowditch	**Job Type**	9 5/8" Surface Casing
Country	United States	**Job Date**	09-16-2011





Schlumberger

Cementing Service Report

Customer	Job Number
EnCana	BUNM-00119

Well	Location (legal)	Schlumberger Location	Job Start
DW 8603A-33	P28	Grand Junction, CO	Sep/16/2011

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Double Willow	Shale	0 deg	14.8 in	2106.0 ft	2106.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Garfield	Colorado	psi	107 degF	91 degF	lb/gal

Well Master	API/UWI
0631308214	

Rig Name	Drilled For	Service Via
Patterson 308	Gas	Land

Offshore Zone	Well Class	Well Type
	New	Development

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

Service Line	Job Type
Cementing	9 5/8" Surface Casing

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
3000 psi	500 psi	Sin

Service Instructions

Cement 9 5/8" Surface Casing With:
50 bbls MudPush II @ 10.0 ppg
241 bbls Lead Slurry @ 11.0 ppg (472 sks)
80 bbls Tail Slurry @ 12.5 ppg (247 sks)
Displace 152 bbls Water

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
120.0	16.0	65.0		
2106.0	9.6	36.0	K-55	8RD

Tubing/Drill Pipe

T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
		0.0	0.0		
		0.0	0.0		

Perforations/Open Hole

Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
ft	ft			ft
ft	ft			Diameter
ft	ft			in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	159.2 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	162.8 bbl	257.0 bbl	422.0 bbl

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

Lift Pressure	Pipe Rotated	Pipe Reciprocated
450 psi		

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type
Single

Job Scheduled For	Arrived on Location	Leave Location
Sep/16/2011	Sep/16/2011	Sep/16/2011

Casing Tools		Squeeze Job	
Shoe Type	Float	Squeeze Type	
Shoe Depth	2106.0 ft	Tool Type	
Stage Tool Type		Tool Depth	ft
Stage Tool Depth	ft	Tail Pipe Size	in
Collar Type	Float	Tail Pipe Depth	ft
Collar Depth	2059.0 ft	Sqz. Total Vol.	bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message
09/16/2011	06:23:46	1	0.3	8.42	33.8	0	Started Acquisition
09/16/2011	06:23:48	0	0.3	8.42	33.8	0	Held Safety Meeting
09/16/2011	06:23:49	0	0.3	8.42	33.8	0	2 bbls Fresh Water Ahead
09/16/2011	06:25:26	-2	0.3	8.41	34.3	0	
09/16/2011	06:27:06	48	1.9	8.08	1.0	0	
09/16/2011	06:28:46	1142	0.0	8.40	2.1	0	
09/16/2011	06:29:00	1116	0.0	8.40	2.1	0	Pressure Test Lines
09/16/2011	06:29:01	1116	0.0	8.40	2.1	0	500 psi Pressure Test
09/16/2011	06:30:26	2531	0.0	8.40	2.1	0	
09/16/2011	06:30:45	2501	0.0	8.41	2.1	0	Pressure Test Lines
09/16/2011	06:30:46	2500	0.0	8.41	2.1	0	3000 psi Pressure Test
09/16/2011	06:30:47	2500	0.0	8.40	2.1	0	Pressure Test = Good
09/16/2011	06:32:06	2	0.0	8.41	2.1	0	
09/16/2011	06:33:46	17	0.0	8.41	2.1	0	
09/16/2011	06:35:26	24	0.0	8.41	2.1	0	
09/16/2011	06:36:50	74	2.2	9.36	0.1	32	Start Pumping Spacer
09/16/2011	06:36:51	78	2.3	9.70	0.1	32	50 bbls MudPush II
09/16/2011	06:36:55	100	2.2	9.85	0.3	32	MudPush II @ 10.0 ppg
09/16/2011	06:37:06	72	0.9	9.90	0.7	32	
09/16/2011	06:38:46	193	5.7	9.93	5.5	34	
09/16/2011	06:40:26	184	5.9	9.95	15.2	34	

Well	Field	Job Start	Customer	Job Number
DW 8603A-33	Double Willow	Sep/16/2011	EnCana	BUNM-00119

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message
09/16/2011	06:43:46	79	2.6	10.00	28.5	26	
09/16/2011	06:45:26	68	2.9	10.04	33.3	31	
09/16/2011	06:47:06	66	2.9	10.01	38.1	24	
09/16/2011	06:48:46	72	2.1	10.69	43.2	30	
09/16/2011	06:50:10	221	6.3	10.95	49.6	31	End Spacer
09/16/2011	06:50:14	230	6.3	10.95	50.0	31	Reset Total, Vol = 52.92 bbl
09/16/2011	06:50:18	222	6.3	10.97	50.4	32	Start Mixing Lead Slurry
09/16/2011	06:50:19	233	6.3	10.98	50.5	32	241 bbls Lead Slurry
09/16/2011	06:50:26	222	6.3	10.99	51.2	32	
09/16/2011	06:51:22	287	7.3	11.03	57.0	32	Full Returns
09/16/2011	06:52:06	284	7.9	11.06	62.7	32	
09/16/2011	06:53:46	282	8.0	11.08	76.0	33	
09/16/2011	06:54:42	267	8.0	11.06	83.4	32	Collected Wet Sample
09/16/2011	06:54:43	275	8.0	11.06	83.5	32	Wet Sample @ 11.1 ppg
09/16/2011	06:55:26	271	8.0	11.05	89.3	32	
09/16/2011	06:57:06	274	8.0	11.05	102.6	32	
09/16/2011	06:58:46	267	8.0	11.06	115.9	32	
09/16/2011	07:00:26	272	8.0	11.06	129.1	32	
09/16/2011	07:02:06	272	8.0	11.05	142.4	32	
09/16/2011	07:03:46	272	8.0	11.04	155.7	32	
09/16/2011	07:05:26	270	8.0	11.05	169.0	32	
09/16/2011	07:07:06	266	8.0	11.05	182.3	31	
09/16/2011	07:08:46	265	8.0	11.05	195.5	31	
09/16/2011	07:10:26	270	8.0	11.02	208.8	31	
09/16/2011	07:12:06	268	8.0	11.01	222.1	31	
09/16/2011	07:13:46	274	8.0	11.01	235.4	31	
09/16/2011	07:15:26	266	8.0	11.01	248.6	31	
09/16/2011	07:17:06	267	8.0	11.03	261.9	31	
09/16/2011	07:18:46	262	8.0	11.05	275.2	31	
09/16/2011	07:20:26	260	8.0	11.01	288.5	32	
09/16/2011	07:21:43	272	8.0	11.36	298.7	33	End Lead Slurry
09/16/2011	07:22:01	210	6.6	11.66	300.9	36	Reset Total, Vol = 250.91 bbl
09/16/2011	07:22:06	145	6.2	11.77	301.4	38	
09/16/2011	07:22:50	165	5.1	12.41	305.3	44	Start Mixing Tail Slurry
09/16/2011	07:22:51	165	5.1	12.43	305.3	44	80 bbls Tail Slurry
09/16/2011	07:22:52	169	5.1	12.44	305.4	44	Tail @ 12.5 ppg
09/16/2011	07:23:14	186	5.1	12.55	307.3	46	Full Returns
09/16/2011	07:23:46	175	5.0	12.58	310.0	46	
09/16/2011	07:25:26	181	5.1	12.49	318.5	47	
09/16/2011	07:27:06	175	5.0	12.49	327.0	48	
09/16/2011	07:28:46	179	5.1	12.50	335.4	48	
09/16/2011	07:30:26	282	6.5	12.51	345.6	48	
09/16/2011	07:32:06	275	6.5	12.53	356.4	47	
09/16/2011	07:33:46	258	6.5	12.52	367.2	47	
09/16/2011	07:35:26	258	6.5	12.48	378.1	45	
09/16/2011	07:35:30	257	6.5	12.48	378.5	29	End Tail Slurry
09/16/2011	07:37:06	12	0.1	12.52	383.2	35	
09/16/2011	07:38:46	18	0.0	12.50	383.5	20	
09/16/2011	07:40:26	11	0.0	10.17	383.5	19	
09/16/2011	07:42:06	74	4.3	9.11	388.7	19	
09/16/2011	07:43:46	65	4.2	8.51	395.8	8	
09/16/2011	07:45:26	154	6.5	8.39	405.3	19	
09/16/2011	07:45:40	166	6.5	8.42	406.8	13	Drop Top Plug
09/16/2011	07:45:41	166	6.5	8.42	406.9	13	Start Displacement

Well	Field	Job Start	Customer	Job Number
DW 8603A-33	Double Willow	Sep/16/2011	EnCana	BUNM-00119

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message
09/16/2011	07:45:43	162	6.5	8.41	407.1	13	152 bbl Displacement
09/16/2011	07:47:06	180	6.4	8.37	415.9	5	
09/16/2011	07:48:46	203	6.4	8.40	426.7	3	
09/16/2011	07:50:26	280	7.8	8.38	438.7	7	
09/16/2011	07:52:06	325	7.8	8.35	451.8	7	
09/16/2011	07:52:35	335	7.7	8.40	455.6	2	Good Cement to Surface
09/16/2011	07:52:45	344	7.8	8.40	456.9	1	100 bbls Cement to Surface
09/16/2011	07:53:46	356	7.8	8.40	464.7	0	
09/16/2011	07:55:26	410	7.7	8.40	477.6	0	
09/16/2011	07:57:06	474	7.7	8.40	490.5	0	
09/16/2011	07:58:46	518	7.7	8.40	503.4	0	
09/16/2011	08:00:26	555	7.7	8.40	516.3	0	
09/16/2011	08:02:06	377	3.5	8.40	527.6	0	
09/16/2011	08:03:46	428	3.5	8.40	533.4	0	
09/16/2011	08:05:26	505	3.5	8.40	539.1	0	
09/16/2011	08:07:06	438	2.0	8.40	544.1	0	
09/16/2011	08:08:46	457	2.0	8.40	547.4	0	
09/16/2011	08:10:26	404	2.0	8.40	550.7	0	
09/16/2011	08:12:06	986	0.0	8.40	552.1	0	
09/16/2011	08:13:46	985	0.0	8.40	552.1	0	
09/16/2011	08:14:26	986	0.0	8.40	552.1	0	Bump Top Plug
09/16/2011	08:14:47	986	0.0	8.40	552.1	0	Final Circulating Pressure = 450 psi
09/16/2011	08:15:26	987	0.0	8.40	552.1	0	
09/16/2011	08:16:24	-1	0.0	8.40	552.1	0	Floats Held
09/16/2011	08:16:25	-1	0.0	8.40	552.1	0	3/4 bbl Bled Back
09/16/2011	08:17:06	0	0.0	8.41	552.1	0	
09/16/2011	10:31:55	-1	0.0	8.41	555.4	0	Attempt to Pump Down the Parasite
09/16/2011	10:31:56	-1	0.0	8.41	555.4	0	8 bbls Pumped into the Parasite Line
09/16/2011	10:32:06	-1	0.0	8.41	555.4	0	
09/16/2011	10:33:46	-4	0.0	8.41	555.4	0	
09/16/2011	10:35:26	49	3.4	8.37	559.2	0	
09/16/2011	10:37:06	57	0.9	8.44	561.6	0	
09/16/2011	10:38:46	57	0.9	8.43	563.0	0	

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.5			8.0	321.0	0.0	50.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
2602	0	292	1000			bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp			
%	321.0 bbl	159.0 bbl	50 degF	Cement Circulated to Surface?	X	Volume 100.0 bbl
				Washed Thru Perfs		To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost		Job Completed	X
Ira Cox	Ryan Bowditch	-		-	