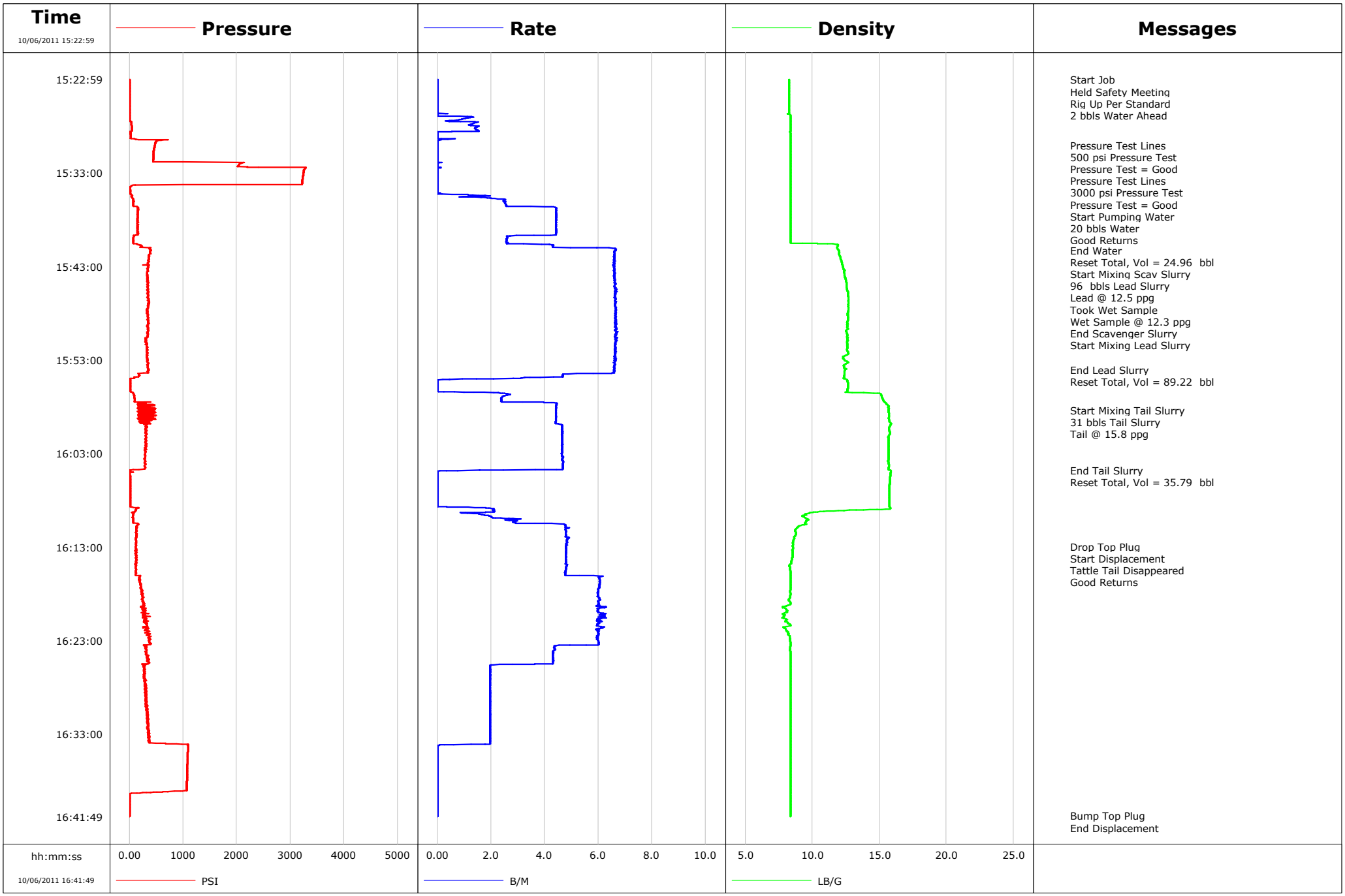
Schlumberger Cementing Job Report

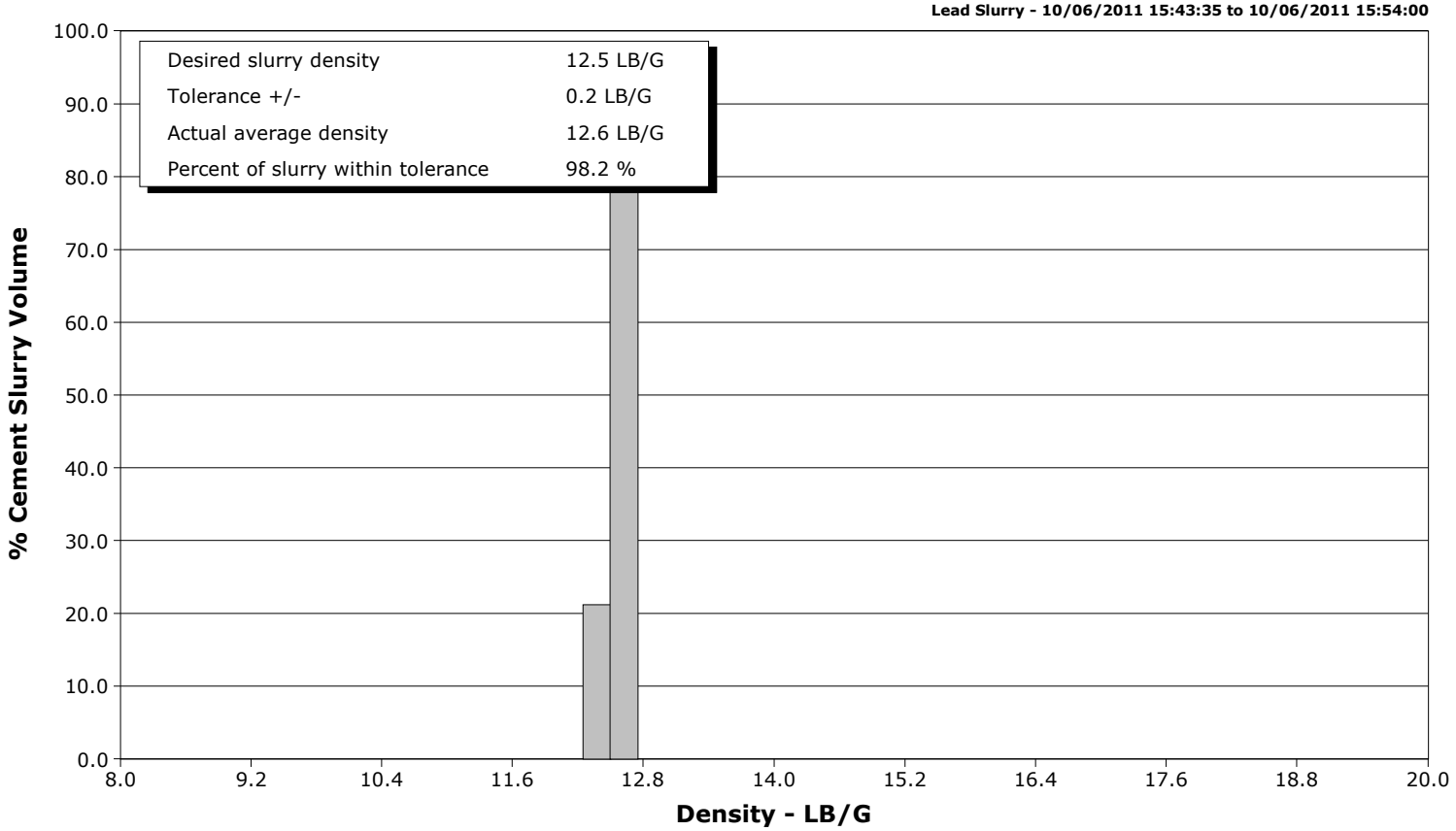
Well	Federal 28-13	**Client**	EnCana
Field	Parachute	**SIR No.**	BC74-00098
Engineer	Ryan Bowditch	**Job Type**	9 5/8" Surface Casing
Country	United States	**Job Date**	10-06-2011



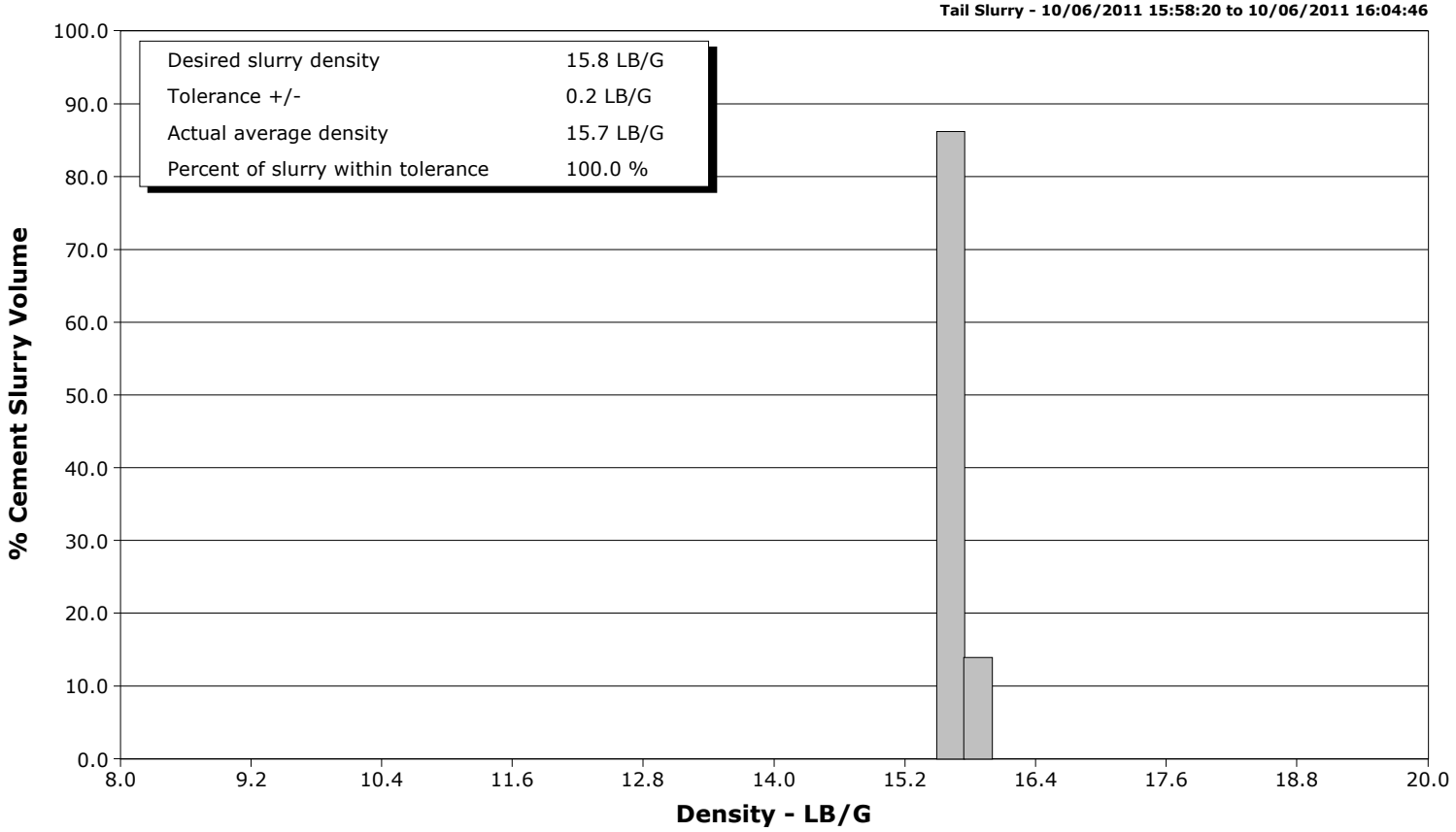
Schlumberger Cementing Qa/Qc Density Report

Well	Federal 28-13	**Client**	EnCana
Field	Parachute	**SIR No.**	BC74-00098
Engineer	Ryan Bowditch	**Job Type**	9 5/8" Surface Casing
Country	United States	**Job Date**	10-06-2011

Lead Slurry - 10/06/2011 15:43:35 to 10/06/2011 15:54:00



Tail Slurry - 10/06/2011 15:58:20 to 10/06/2011 16:04:46



Schlumberger

Cementing Service Report

Customer	Job Number
EnCana	BC74-00098

Well	Location (legal)	Schlumberger Location	Job Start
Federal 28-13	PL28	Grand Junction, CO	Oct/06/2011

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Parachute	Shale	0 deg	12.3 in	1264.0 ft	1264.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Garfield	Colorado	psi	95 degF	82 degF	lb/gal

Well Master	API/UWI
0631236249	05045202290000

Rig Name	Drilled For	Service Via
Nabors M15	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
1500 psi	500 psi	Single Cement head

Service Instructions

Cement 9 5/8" Surface Casing with:
20 bbls Water
96 bbls 12.5 ppg Lead Cement (256 sks)
31 bbls 15.8 ppg Tail Slurry (150 sks)
Displace 94 bbls Water

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
40.0	16.0	65.0		
1264.0	9.6	36.0	K55	8RD

Tubing/Drill Pipe

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

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	94.1 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	97.7 bbl	74.0 bbl	175.0 bbl

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

Lift Pressure	Pipe Rotated	Pipe Reciprocated
400 psi		

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type
Single

Job Scheduled For	Arrived on Location	Leave Location
Oct/06/2011	Oct/06/2011	Oct/06/2011

Casing Tools		Squeeze Job	
Shoe Type	Float	Squeeze Type	
Shoe Depth	1264.0 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	1218.0 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
10/06/2011	15:22:59	4	0.0	8.26	0.0	0	Started Acquisition
10/06/2011	15:23:01	5	0.0	8.26	0.0	0	Start Job
10/06/2011	15:23:02	5	0.0	8.26	0.0	0	Held Safety Meeting
10/06/2011	15:24:39	4	0.0	8.27	0.0	0	
10/06/2011	15:26:19	3	0.0	8.27	0.0	0	
10/06/2011	15:27:59	41	1.6	8.37	1.2	0	
10/06/2011	15:29:39	494	0.0	8.37	2.1	0	
10/06/2011	15:30:00	472	0.0	8.37	2.1	0	Pressure Test Lines
10/06/2011	15:31:19	444	0.0	8.37	2.1	0	
10/06/2011	15:32:59	3241	0.0	8.37	2.1	0	
10/06/2011	15:33:00	3241	0.0	8.37	2.1	0	Pressure Test Lines
10/06/2011	15:34:39	7	0.0	8.37	2.1	0	
10/06/2011	15:36:04	70	2.5	8.37	3.6	0	Start Pumping Water
10/06/2011	15:36:05	71	2.5	8.37	3.6	0	20 bbls Water
10/06/2011	15:36:19	69	2.6	8.37	4.2	0	
10/06/2011	15:37:59	152	4.4	8.37	11.0	0	
10/06/2011	15:39:20	144	4.4	8.36	17.0	0	Good Returns
10/06/2011	15:39:39	119	4.2	8.36	18.4	0	
10/06/2011	15:41:16	397	6.6	11.96	24.4	12	End Water
10/06/2011	15:41:19	397	6.6	11.97	24.7	12	
10/06/2011	15:41:20	396	6.6	11.97	24.9	12	Reset Total, Vol = 24.96 bbl

Well	Field	Job Start	Customer	Job Number
Federal 28-13	Parachute	Oct/06/2011	EnCana	BC74-00098

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message
10/06/2011	15:42:01	352	6.6	12.08	29.4	14	96 bbls Lead Slurry
10/06/2011	15:42:29	360	6.6	12.17	32.3	16	Lead @ 12.5 ppg
10/06/2011	15:42:59	350	6.6	12.26	35.7	17	
10/06/2011	15:43:31	344	6.6	12.34	39.2	20	Took Wet Sample
10/06/2011	15:43:32	338	6.6	12.34	39.4	20	Wet Sample @ 12.3 ppg
10/06/2011	15:43:34	328	6.6	12.34	39.6	20	End Scavenger Slurry
10/06/2011	15:43:35	330	6.6	12.34	39.7	20	Start Mixing Lead Slurry
10/06/2011	15:44:39	356	6.6	12.51	46.7	19	
10/06/2011	15:46:19	348	6.6	12.68	57.8	23	
10/06/2011	15:47:59	319	6.6	12.64	68.8	25	
10/06/2011	15:49:39	339	6.7	12.65	79.9	25	
10/06/2011	15:51:19	301	6.6	12.59	91.0	25	
10/06/2011	15:52:59	324	6.6	12.38	102.0	24	
10/06/2011	15:54:00	349	6.6	12.44	108.8	25	End Lead Slurry
10/06/2011	15:54:39	185	4.7	12.37	112.7	25	
10/06/2011	15:55:18	13	0.0	12.62	114.2	27	Reset Total, Vol = 89.22 bbl
10/06/2011	15:56:19	11	0.0	12.62	114.2	38	
10/06/2011	15:57:59	304	4.4	15.65	118.8	44	
10/06/2011	15:58:20	435	4.4	15.67	120.4	44	Start Mixing Tail Slurry
10/06/2011	15:58:22	319	4.4	15.67	120.5	44	31 bbls Tail Slurry
10/06/2011	15:58:23	382	4.4	15.67	120.6	44	Tail @ 15.8 ppg
10/06/2011	15:59:39	191	4.4	15.77	126.2	43	
10/06/2011	16:01:19	310	4.7	15.65	133.9	42	
10/06/2011	16:02:59	294	4.6	15.67	141.6	41	
10/06/2011	16:04:39	280	4.7	15.67	149.4	69	
10/06/2011	16:04:46	5	1.6	15.80	149.9	74	End Tail Slurry
10/06/2011	16:04:47	7	1.6	15.80	149.9	74	Reset Total, Vol = 35.79 bbl
10/06/2011	16:06:19	12	0.0	15.75	150.0	0	
10/06/2011	16:07:59	11	0.0	15.75	150.0	0	
10/06/2011	16:09:39	69	1.9	9.25	151.6	31	
10/06/2011	16:11:19	133	4.8	8.70	157.7	9	
10/06/2011	16:12:56	121	4.8	8.53	165.5	8	Drop Top Plug
10/06/2011	16:12:57	119	4.8	8.53	165.6	8	Start Displacement
10/06/2011	16:12:58	119	4.8	8.54	165.7	8	Tattle Tail Disappeared
10/06/2011	16:12:59	114	4.8	8.54	165.8	8	Good Returns
10/06/2011	16:14:39	126	4.8	8.40	173.8	3	
10/06/2011	16:16:19	189	6.0	8.38	182.0	5	
10/06/2011	16:17:59	222	6.0	8.35	192.1	4	
10/06/2011	16:19:39	303	6.0	8.05	202.1	8	
10/06/2011	16:21:19	328	6.0	8.36	212.2	4	
10/06/2011	16:22:59	360	6.0	8.33	222.2	7	
10/06/2011	16:24:39	326	4.3	8.36	230.3	1	
10/06/2011	16:26:19	286	2.0	8.36	235.7	33	
10/06/2011	16:27:59	295	2.0	8.36	239.0	0	
10/06/2011	16:29:39	301	2.0	8.36	242.3	0	
10/06/2011	16:31:19	353	2.0	8.36	245.5	0	
10/06/2011	16:32:59	367	2.0	8.36	248.8	0	
10/06/2011	16:34:39	1088	0.0	8.36	251.1	0	
10/06/2011	16:36:19	1077	0.0	8.36	251.1	0	
10/06/2011	16:37:59	1069	0.0	8.36	251.1	0	
10/06/2011	16:39:39	4	0.0	8.36	251.1	0	
10/06/2011	16:41:19	3	0.0	8.36	251.1	0	
10/06/2011	16:41:43	3	0.0	8.36	251.1	0	Bump Top Plug
10/06/2011	16:41:44	3	0.0	8.36	251.1	0	End Displacement

Well	Field	Job Start	Customer	Job Number
Federal 28-13	Parachute	Oct/06/2011	EnCana	BC74-00098

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.5			6.7	127.0	0.0	20.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3296	3	355	1000			bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
%	127.0 bbl	94.0 bbl	55 degF	[X]	50.0 bbl
				Washed Thru Perfs [ ]	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
Robert Tate	Ryan Bowditch	-	-