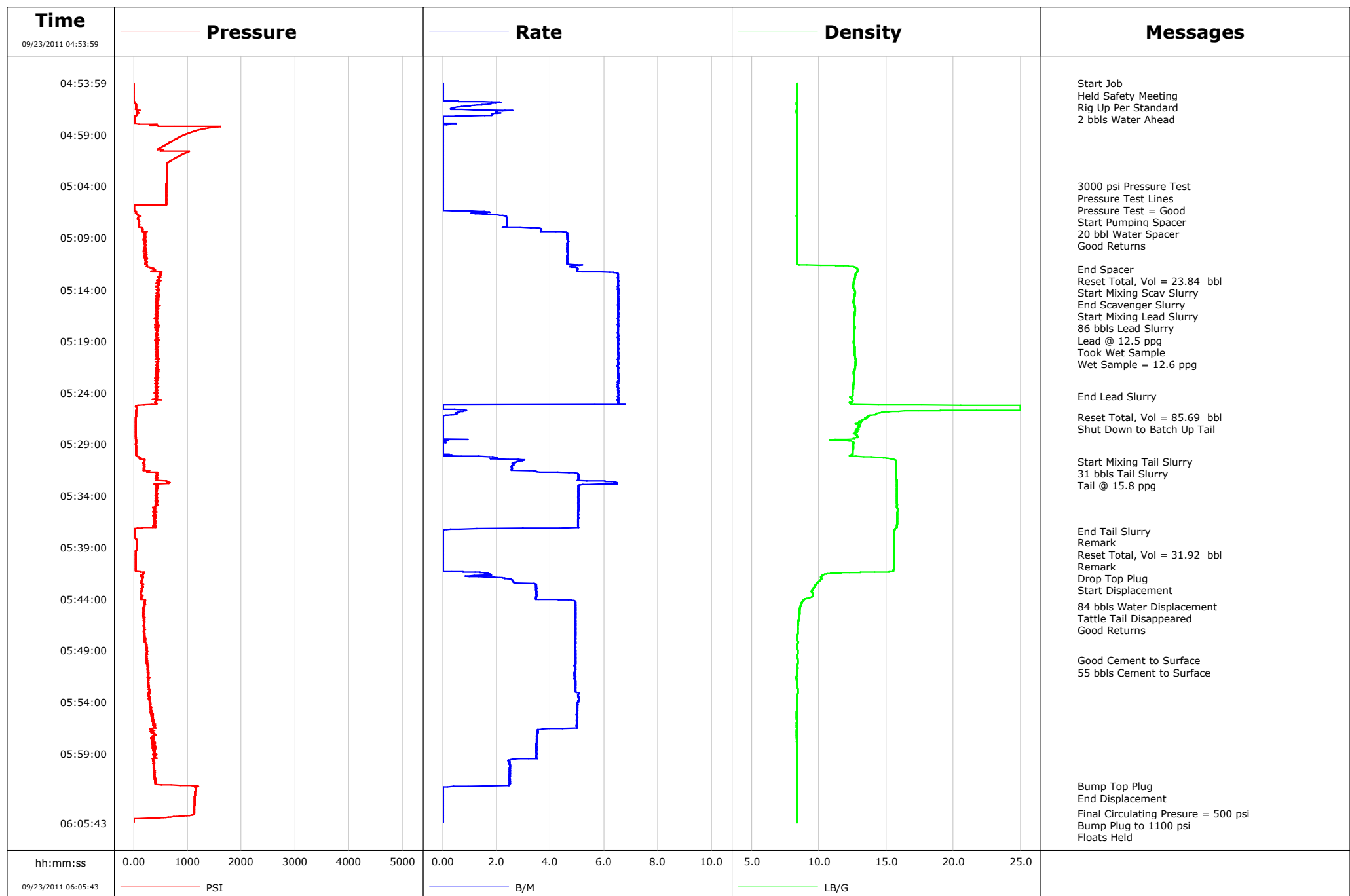


Well Federal 25-4A
Field Parachute
Engineer Ryan Bowditch
Country United States

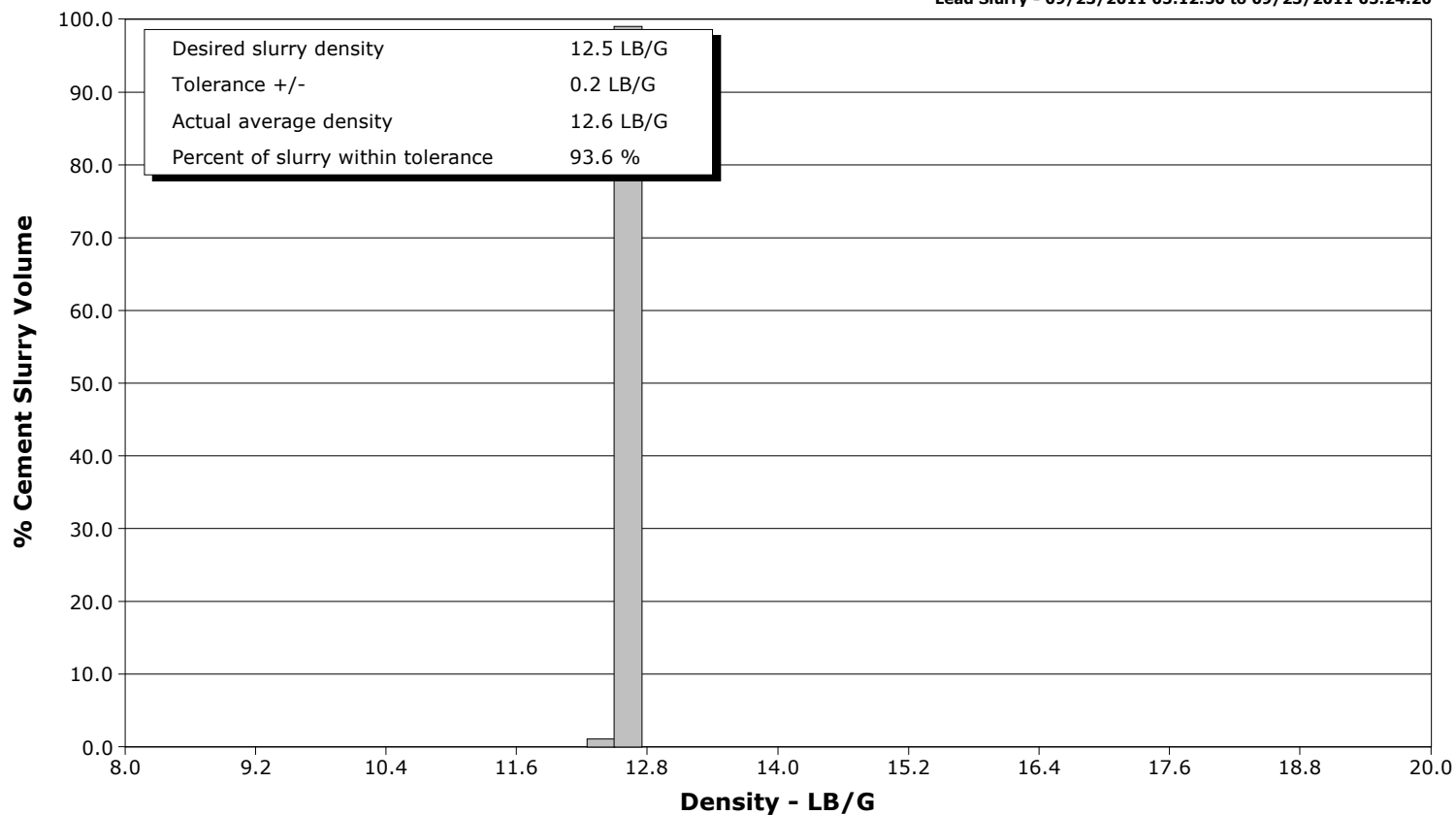
Client EnCana
SIR No. BQMF-00165
Job Type 9 5/8" Surface
Job Date 09-23-2011



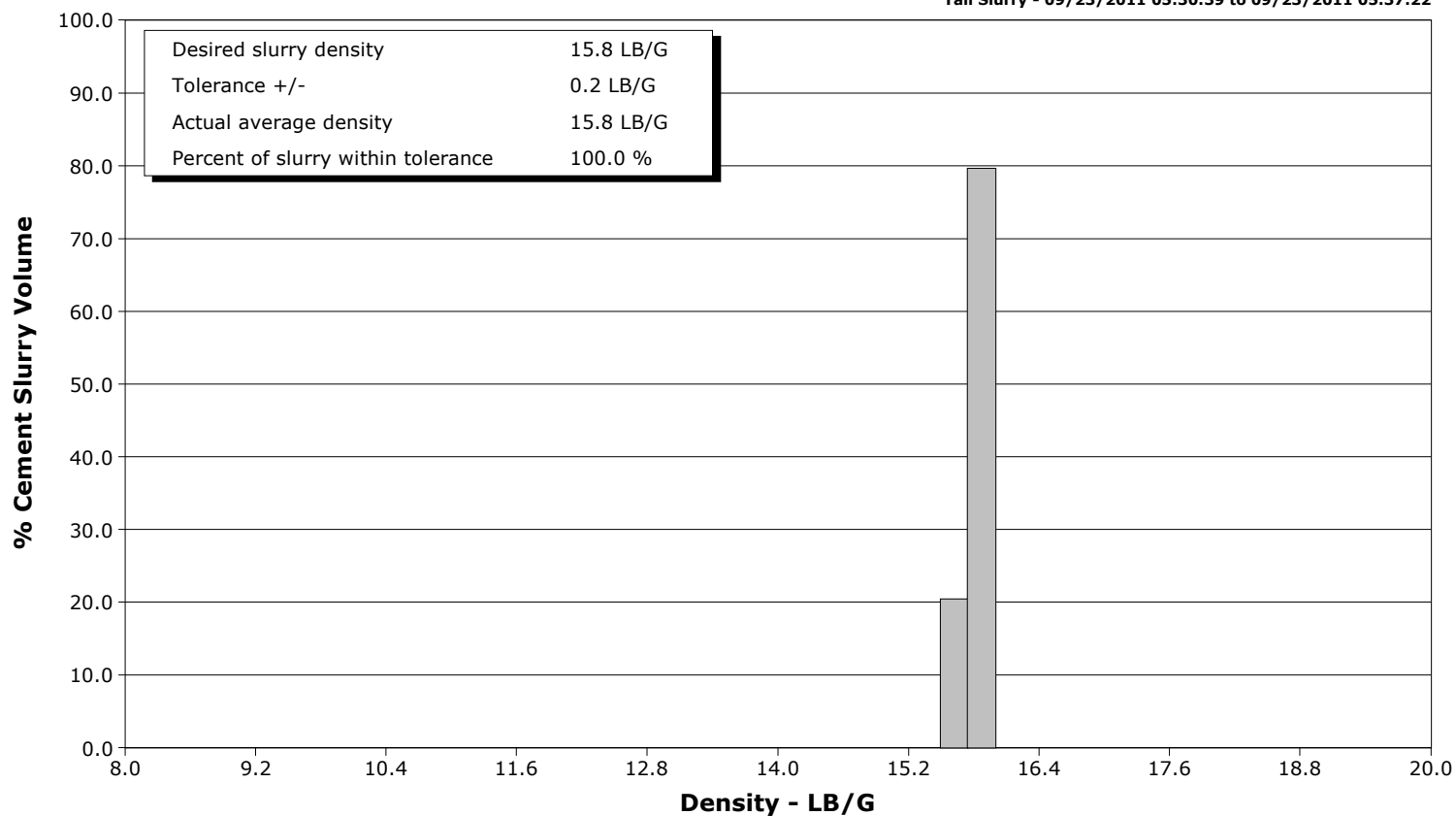
Well Federal 25-4A
Field Parachute
Engineer Ryan Bowditch
Country United States

Client EnCana
SIR No. BQMF-00165
Job Type 9 5/8" Surface
Job Date 09-23-2011

Lead Slurry - 09/23/2011 05:12:50 to 09/23/2011 05:24:20



Tail Slurry - 09/23/2011 05:30:39 to 09/23/2011 05:37:22



Cementing Service Report

					Customer EnCana			Job Number BQMF-00165	
Well Federal 25-4A			Location (legal) PE-25		Schlumberger Location Grand Junction, CO			Job Start Sep/23/2011	
Field Parachute		Formation Name/Type Shale		Deviation 0 deg	Bit Size 12.3 in		Well MD 1130.0 ft		Well TVD 1130.0 ft
County Garfield		State/Province Colorado		BHP psi	BHST 95 degF	BHCT 81 degF	Pore Press. Gradient lb/gal		
Well Master 0631277952		API/UWI 05045206540000							
Rig Name Patterson 330	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	40.0	16.0	65.0			
				1130.0	9.6	36.0	K55		8RD
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe					
				T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	
Service Line Cementing	Job Type 9 5/8" Surface								
Max. Allowed Tub. Press 1500 psi	Max. Allowed Ann. Press 500 psi		WH Connection Single Cement head	Perforations/Open Hole					
				Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval ft	
Service Instructions Cement 9 5/8" Surface Casing with: 20 bbls Water 86 bbls 12.5 ppq Lead (229 sks) 31 bbls 15.8 ppq Tail (150 sks) Displace 84 bbls Water				ft	ft				
				ft	ft			Diameter in	
				ft	ft				
	Treat Down Casing	Displacement 83.8 bbl		Packer Type		Packer Depth ft			
	Tubing Vol. bbl	Casing Vol. 87.3 bbl		Annular Vol. 66.0 bbl		Openhole Vol. 157.0 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 500 psi				Shoe Type Float			Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1130.0 ft			Tool Type		
No. Centralizers		Top Plugs 1	Bottom Plugs	Stage Tool Type			Tool Depth ft		
Cement Head Type Single				Stage Tool Depth ft			Tail Pipe Size in		
Job Scheduled For Sep/23/2011		Arrived on Location Sep/23/2011		Leave Location Sep/23/2011		Collar Type Float		Tail Pipe Depth ft	
						Collar Depth 1085.0 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		
09/23/2011	04:53:59	-6	0.0	8.36	0.0	0	Started Acquisition		
09/23/2011	04:54:00	-6	0.0	8.36	0.0	0	Start Job		
09/23/2011	04:54:01	-6	0.0	8.36	0.0	0	Held Safety Meeting		
09/23/2011	04:55:39	-6	0.0	8.36	0.0	0			
09/23/2011	04:57:19	18	0.0	8.36	2.1	0			
09/23/2011	04:58:59	950	0.0	8.36	2.1	0			
09/23/2011	05:00:39	1014	0.0	8.36	2.1	0			
09/23/2011	05:02:19	613	0.0	8.36	2.1	0			
09/23/2011	05:03:59	607	0.0	8.36	2.1	0			
09/23/2011	05:04:00	607	0.0	8.36	2.1	0	3000 psi Pressure Test		
09/23/2011	05:05:39	600	0.0	8.36	2.1	0			
09/23/2011	05:06:56	112	2.4	8.35	3.0	0	Start Pumping Spacer		
09/23/2011	05:07:06	77	2.4	8.36	3.4	0	20 bbl Water Spacer		
09/23/2011	05:07:07	74	2.4	8.36	3.5	0	Good Returns		
09/23/2011	05:07:19	98	2.4	8.36	3.9	0			
09/23/2011	05:08:59	219	4.6	8.36	9.7	0			
09/23/2011	05:10:39	234	4.6	8.36	17.4	0			
09/23/2011	05:12:00	377	5.0	12.85	23.8	15	End Spacer		
09/23/2011	05:12:01	385	5.0	12.85	23.8	15	Reset Total, Vol = 23.84 bbl		
09/23/2011	05:12:03	376	5.0	12.85	24.0	15	Start Mixing Scav Slurry		
09/23/2011	05:12:19	509	6.2	12.83	25.3	17			

Well Federal 25-4A			Field Parachute		Job Start Sep/23/2011		Customer EnCana		Job Number BQMF-00165
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message		
09/23/2011	05:12:50	438	6.5	12.67	28.7	21	Start Mixing Lead Slurry		
09/23/2011	05:12:51	468	6.5	12.67	28.8	21	86 bbls Lead Slurry		
09/23/2011	05:13:58	452	6.5	12.58	36.1	22	Took Wet Sample		
09/23/2011	05:13:59	453	6.5	12.59	36.2	22			
09/23/2011	05:15:39	433	6.5	12.65	47.0	23			
09/23/2011	05:17:19	415	6.5	12.62	57.9	23			
09/23/2011	05:18:59	426	6.5	12.59	68.7	23			
09/23/2011	05:20:39	421	6.5	12.69	79.6	23			
09/23/2011	05:22:19	414	6.5	12.60	90.5	24			
09/23/2011	05:23:59	430	6.5	12.49	101.3	25			
09/23/2011	05:24:20	433	6.5	12.51	103.6	21	End Lead Slurry		
09/23/2011	05:25:39	46	0.4	25.00	109.2	0			
09/23/2011	05:26:22	37	0.0	13.59	109.5	0	Reset Total, Vol = 85.69 bbl		
09/23/2011	05:27:00	35	0.0	12.73	109.5	0	Shut Down to Batch Up Tail		
09/23/2011	05:27:19	35	0.0	13.02	109.5	0			
09/23/2011	05:28:59	37	0.0	12.55	109.6	0			
09/23/2011	05:30:39	190	2.8	15.73	110.6	20	Start Mixing Tail Slurry		
09/23/2011	05:30:40	187	2.8	15.73	110.7	20	31 bbls Tail Slurry		
09/23/2011	05:31:13	201	2.6	15.72	112.2	24	Tail @ 15.8 ppg		
09/23/2011	05:32:19	412	5.0	15.75	116.5	30			
09/23/2011	05:33:59	416	5.0	15.78	125.3	35			
09/23/2011	05:35:39	410	5.0	15.83	133.7	38			
09/23/2011	05:37:19	15	0.0	15.61	141.4	0			
09/23/2011	05:37:22	15	0.0	15.61	141.4	0	End Tail Slurry		
09/23/2011	05:37:23	15	0.0	15.61	141.4	0	Remark		
09/23/2011	05:37:24	15	0.0	15.60	141.4	0	Reset Total, Vol = 31.92 bbl		
09/23/2011	05:37:26	14	0.0	15.60	141.4	0	Remark		
09/23/2011	05:37:28	14	0.0	15.60	141.4	0	Start Displacement		
09/23/2011	05:38:59	47	0.0	15.58	141.4	0			
09/23/2011	05:40:39	35	0.0	15.58	141.4	0			
09/23/2011	05:42:19	140	2.6	10.00	143.2	28			
09/23/2011	05:43:59	130	3.4	9.08	148.8	15			
09/23/2011	05:44:43	199	4.9	8.63	152.2	4	84 bbls Water Displacement		
09/23/2011	05:45:29	181	4.9	8.54	156.0	4	Good Returns		
09/23/2011	05:45:39	173	4.9	8.53	156.8	4			
09/23/2011	05:47:19	197	4.9	8.40	165.0	3			
09/23/2011	05:48:59	233	4.9	8.39	173.2	10			
09/23/2011	05:49:56	226	4.9	8.40	177.9	8	Good Cement to Surface		
09/23/2011	05:50:39	276	4.9	8.39	181.4	2			
09/23/2011	05:52:19	270	4.9	8.39	189.6	8			
09/23/2011	05:53:59	289	5.0	8.37	197.9	18			
09/23/2011	05:55:39	356	5.0	8.35	206.2	0			
09/23/2011	05:57:19	362	3.5	8.35	213.5	0			
09/23/2011	05:58:59	366	3.5	8.35	219.3	0			
09/23/2011	06:00:39	388	2.5	8.35	224.0	0			
09/23/2011	06:02:08	1099	1.8	8.35	227.7	0	Bump Top Plug		
09/23/2011	06:02:09	1192	1.8	8.35	227.7	0	End Displacement		
09/23/2011	06:02:19	1155	0.0	8.35	227.8	0			
09/23/2011	06:03:59	1124	0.0	8.35	227.8	0			
09/23/2011	06:04:47	1117	0.0	8.35	227.8	0	Final Circulating Pressure = 500 psi		
09/23/2011	06:05:39	-8	0.0	8.35	227.8	0			
09/23/2011	06:05:40	-7	0.0	8.35	227.8	0	Floats Held		

Well Federal 25-4A	Field Parachute	Job Start Sep/23/2011	Customer EnCana	Job Number BQMF-00165
------------------------------	---------------------------	---------------------------------	---------------------------	---------------------------------

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.6	N2	Mud	Maximum Rate 6.8	Total Slurry 117.0	Mud 0.0	Spacer 20.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 1615	Final -7	Average 350	Bump Plug to 1100	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 117.0 bbl	Displacement 86.3 bbl	Mix Water Temp 65 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 55.0 bbl		
				Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative Arvid Mosnes			Schlumberger Supervisor Ryan Bowditch			Circulation Lost <input type="checkbox"/>	Job Completed <input type="checkbox"/>	
						-	-	