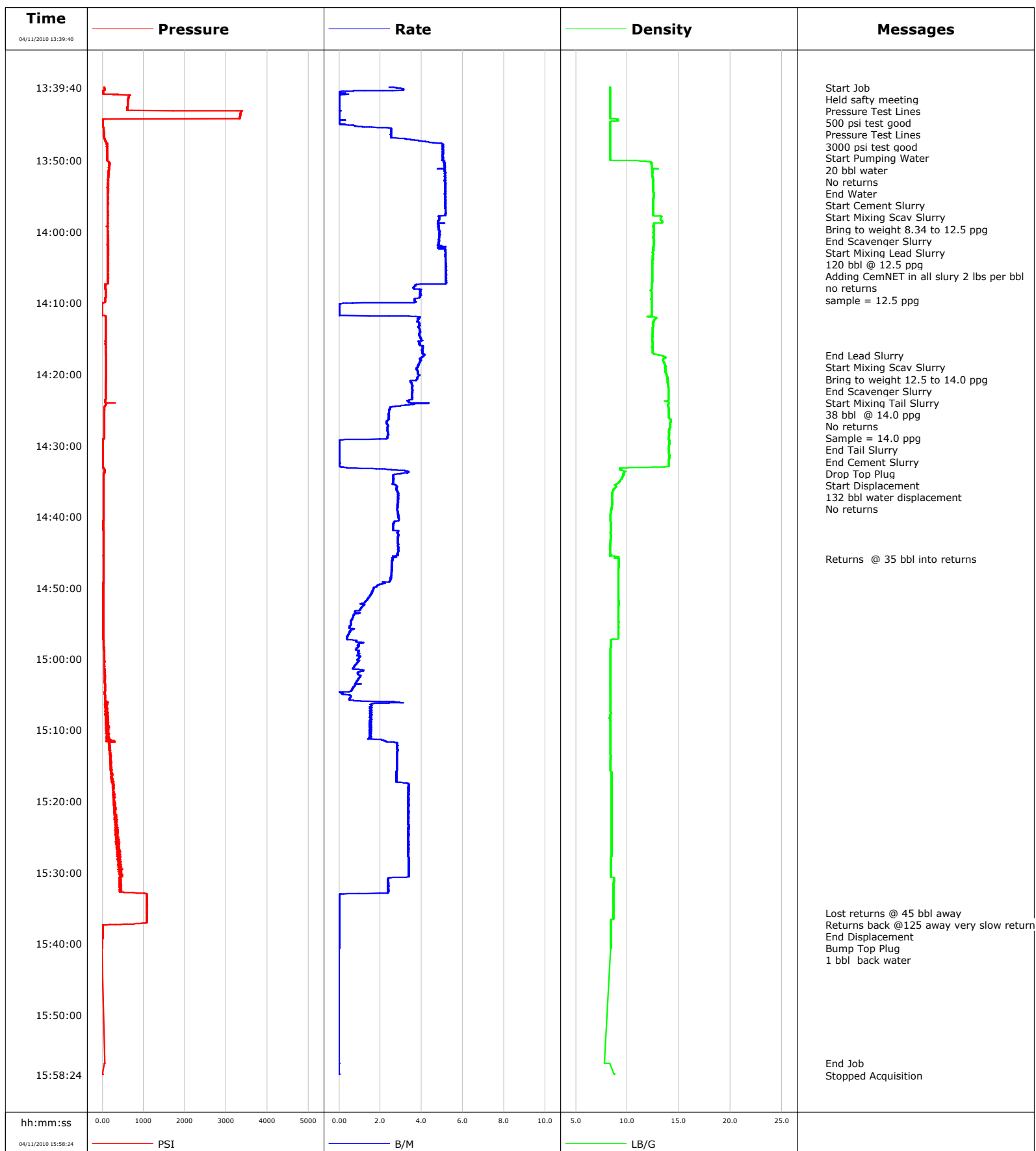


**Well** WF04B-27 K22 596,1  
**Field** N Parachute  
**Engineer** Terry Borg  
**Country** United States

**Client** ENCANA  
**SIR No.** B2K7-00053  
**Job Type** 9 5/8 Surface  
**Job Date** 04-11-2010





# Cementing Service Report

				Customer ENCANA			Job Number B2K7-00053								
Well WF04B-27 K22 596,1 K22 596,1			Location (legal) K22 596,1			Schlumberger Location GCO		Job Start Apr/11/2010							
Field N Parachute		Formation Name/Type Shale		Deviation 0 deg		Bit Size 12.3 in		Well MD 1768.0 ft		Well TVD 1768.0 ft					
County Garfield		State/Province Colorado		BHP		BHST 110 degF		BHCT 88 degF		Pore Press. Gradient					
Well Master 0631174121		API/UWI													
Rig Name Patterson 303		Drilled For Gas		Service Via Land		Casing/Liner									
Offshore Zone		Well Class New		Well Type Development		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
						1768.0		9.630		36.0		J55		8RD	
Drilling Fluid Type Bentonite		Max. Density		Plastic Viscosity		0.0		0.000		0.0					
						Tubing/Drill Pipe		Depth,		Size, in		Weight, lb/ft		Grade	
Service Line Cementing		Job Type 9 5/8 Surface						0.000		0.0					
								0.000		0.0					
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection 9 5/8		Perforations/Open Hole									
						Top,		Bottom,				No. of Shots		Total Interval	
														Diameter	
						Treat Down Casing		Displacement 132.0 bbl		Packer Type		Packer Depth			
						Tubing Vol.		Casing Vol. 137.0 bbl		Annular Vol. 142.0 bbl		Openhole Vol. 255.0 bbl			
Casing/Tubing Secured		<input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement		<input type="checkbox"/>		Casing Tools		Squeeze Job					
Lift Pressure 866 psi						Shoe Type Guide		Squeeze Type							
Pipe Rotated		<input type="checkbox"/>		Pipe Reciprocated		<input type="checkbox"/>		Shoe Depth 1768.0 ft		Tool Type					
No. Centralizers 22		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth					
Cement Head Type Single						Stage Tool Depth				Tail Pipe Size					
Job Scheduled For Apr/11/2010 05:00		Arrived on Location Apr/11/2010 08:00		Leave Location Apr/11/2010 15:00		Collar Type Diff-Fill		Tail Pipe Depth							
						Collar Depth 1726.0 ft		Sqz. Total Vol.							
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M		Density LB/G		Volume BBL		Message					
01/01/1970	00:13:05									Started Acquisition					
04/11/2010	11:03:00									Started Acquisition					
04/11/2010	13:39:40	36		2.4		8.33		0.0							
04/11/2010	13:39:41									Start Job					
04/11/2010	13:39:41	39		2.4		8.33		0.1							
04/11/2010	13:39:42									Held safty meeting					
04/11/2010	13:39:42	42		2.5		8.33		0.1							
04/11/2010	13:41:05									Pressure Test Lines					
04/11/2010	13:41:05	635		0.0		8.32		1.7							
04/11/2010	13:41:06									500 psi test good					
04/11/2010	13:41:06	633		0.0		8.31		1.7							
04/11/2010	13:43:05	3365		0.0		8.32		1.7							
04/11/2010	13:43:20									Pressure Test Lines					
04/11/2010	13:43:20	3351		0.0		8.32		1.7							
04/11/2010	13:43:22									3000 psi test good					
04/11/2010	13:43:22	3349		0.0		8.32		1.7							
04/11/2010	13:44:58									Start Pumping Water					
04/11/2010	13:44:58	4		0.2		8.32		1.7							
04/11/2010	13:45:00									20 bbl water					
04/11/2010	13:45:00	8		0.5		8.31		1.7							
04/11/2010	13:48:05	111		5.0		8.32		11.2							

Well WF04B-27 K22 596,1 K22 596,1			Field N Parachute		Job Start Apr/11/2010	Customer ENCANA	Job Number B2K7-00053
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
04/11/2010	13:49:27	114	5.0	8.31	18.0		
04/11/2010	13:49:49					End Water	
04/11/2010	13:49:49	119	5.0	8.31	19.9		
04/11/2010	13:49:51					Start Cement Slurry	
04/11/2010	13:49:51	117	5.0	8.31	20.0		
04/11/2010	13:49:52					Start Mixing Scav Slurry	
04/11/2010	13:49:52	118	5.0	8.31	20.1		
04/11/2010	13:49:54					Bring to weight 8.34 to 12.5 ppg	
04/11/2010	13:49:54	122	5.0	8.31	20.3		
04/11/2010	13:50:20					End Scavenger Slurry	
04/11/2010	13:50:20	168	5.1	12.32	22.5		
04/11/2010	13:50:21					Start Mixing Lead Slurry	
04/11/2010	13:50:21	177	5.1	12.31	22.6		
04/11/2010	13:50:24					120 bbl @ 12.5 ppg	
04/11/2010	13:50:24	171	5.1	12.30	22.8		
04/11/2010	13:50:25					Adding CemNET in all slury 2 lbs per bbl	
04/11/2010	13:50:25	169	5.1	12.31	22.9		
04/11/2010	13:50:26					no returns	
04/11/2010	13:50:26	165	5.1	12.31	23.0		
04/11/2010	13:50:30					sample = 12.5 ppg	
04/11/2010	13:50:30	167	5.1	12.34	23.4		
04/11/2010	13:53:05	136	5.1	12.49	36.6		
04/11/2010	13:58:05	127	4.9	13.22	62.2		
04/11/2010	14:03:05	133	5.1	12.50	86.7		
04/11/2010	14:08:05	87	4.0	12.36	111.5		
04/11/2010	14:13:05	81	3.9	12.48	123.7		
04/11/2010	14:17:24					End Lead Slurry	
04/11/2010	14:17:24	85	4.1	13.30	140.7		
04/11/2010	14:17:27					Start Mixing Scav Slurry	
04/11/2010	14:17:27	87	4.1	13.45	140.9		
04/11/2010	14:17:28					Bring to weight 12.5 to 14.0 ppg	
04/11/2010	14:17:28	87	4.1	13.45	141.0		
04/11/2010	14:18:05	85	4.0	13.48	143.5		
04/11/2010	14:19:31					End Scavenger Slurry	
04/11/2010	14:19:31	85	3.8	13.70	149.0		
04/11/2010	14:19:33					Start Mixing Tail Slurry	
04/11/2010	14:19:33	89	3.8	13.69	149.1		
04/11/2010	14:19:35					38 bbl @ 14.0 ppg	
04/11/2010	14:19:35	88	3.8	13.70	149.2		
04/11/2010	14:19:36					No returns	
04/11/2010	14:19:36					Sample = 14.0 ppg	
04/11/2010	14:19:36	89	3.8	13.70	149.3		
04/11/2010	14:23:05	80	3.5	13.99	162.0		
04/11/2010	14:28:05	44	2.4	14.04	175.5		
04/11/2010	14:29:13					End Tail Slurry	
04/11/2010	14:29:13	2	0.3	14.05	178.0		
04/11/2010	14:29:14					End Cement Slurry	
04/11/2010	14:29:14	2	0.2	14.06	178.0		
04/11/2010	14:29:20					Drop Top Plug	
04/11/2010	14:29:20	2	0.0	14.06	178.0		
04/11/2010	14:29:22					Start Displacement	
04/11/2010	14:29:22	2	0.0	14.06	178.0		
04/11/2010	14:29:23					132 bbl water displacement	
04/11/2010	14:29:23	2	0.0	14.06	178.0		

Well			Field		Job Start		Customer		Job Number	
WF04B-27 K22 596,1 K22 596,1			N Parachute		Apr/11/2010		ENCANA		B2K7-00053	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
04/11/2010	14:29:25	1	0.0	14.06	178.0					
04/11/2010	14:33:05	9	0.2	12.98	178.1					
04/11/2010	14:38:05	27	2.9	8.53	191.6					
04/11/2010	14:43:05	27	2.9	8.38	205.5					
04/11/2010	14:45:58					Returns @ 35 bbl into returns				
04/11/2010	14:45:58	25	2.6	9.18	213.7					
04/11/2010	14:48:05	28	2.5	9.12	219.1					
04/11/2010	14:53:05	19	1.0	9.14	227.7					
04/11/2010	14:58:05	33	0.9	8.41	230.9					
04/11/2010	15:03:05	60	0.9	8.38	235.5					
04/11/2010	15:08:05	122	1.5	8.34	240.7					
04/11/2010	15:13:05	194	2.8	8.37	250.4					
04/11/2010	15:18:05	267	3.4	8.45	264.7					
04/11/2010	15:23:05	329	3.4	8.45	281.5					
04/11/2010	15:28:05	432	3.4	8.40	298.3					
04/11/2010	15:33:05	1075	0.1	8.64	312.4					
04/11/2010	15:35:42					Lost returns @ 45 bbl away				
04/11/2010	15:35:42	1081	0.0	8.64	312.4					
04/11/2010	15:36:18					Returns back @125 away very slow returns				
04/11/2010	15:36:18	1080	0.0	8.65	312.4					
04/11/2010	15:37:35					End Displacement				
04/11/2010	15:37:35	4	0.0	8.39	312.4					
04/11/2010	15:37:36					Bump Top Plug				
04/11/2010	15:37:36	3	0.0	8.39	312.4					
04/11/2010	15:37:47					1 bbl back water				
04/11/2010	15:37:47	3	0.0	8.39	312.4					
04/11/2010	15:38:05	3	0.0	8.39	312.4					
04/11/2010	15:56:52					End Job				
04/11/2010	15:56:52	56	0.0	8.32	312.4					

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 3.0	N2	Mud 0.0	Maximum Rate 5.2		Total Slurry 158.0	Mud 0.0	Spacer 19.9	N2	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 3000	Final 1000	Average 180093	Bump Plug to 1000	Breakdown	Type		Volume		Density
Avg. N2 Percent		Designed Slurry Volume 158.0 bbl		Displacement 132.0 bbl		Mix Water Temp 70 degF		Cement Circulated to Surface? <input type="checkbox"/>	Volume
								Washed Thru Perfs <input type="checkbox"/>	To
Customer or Authorized Representative Floyd Roberts				Schlumberger Supervisor Terry Borg				Circulation Lost <input checked="" type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>
								-	-