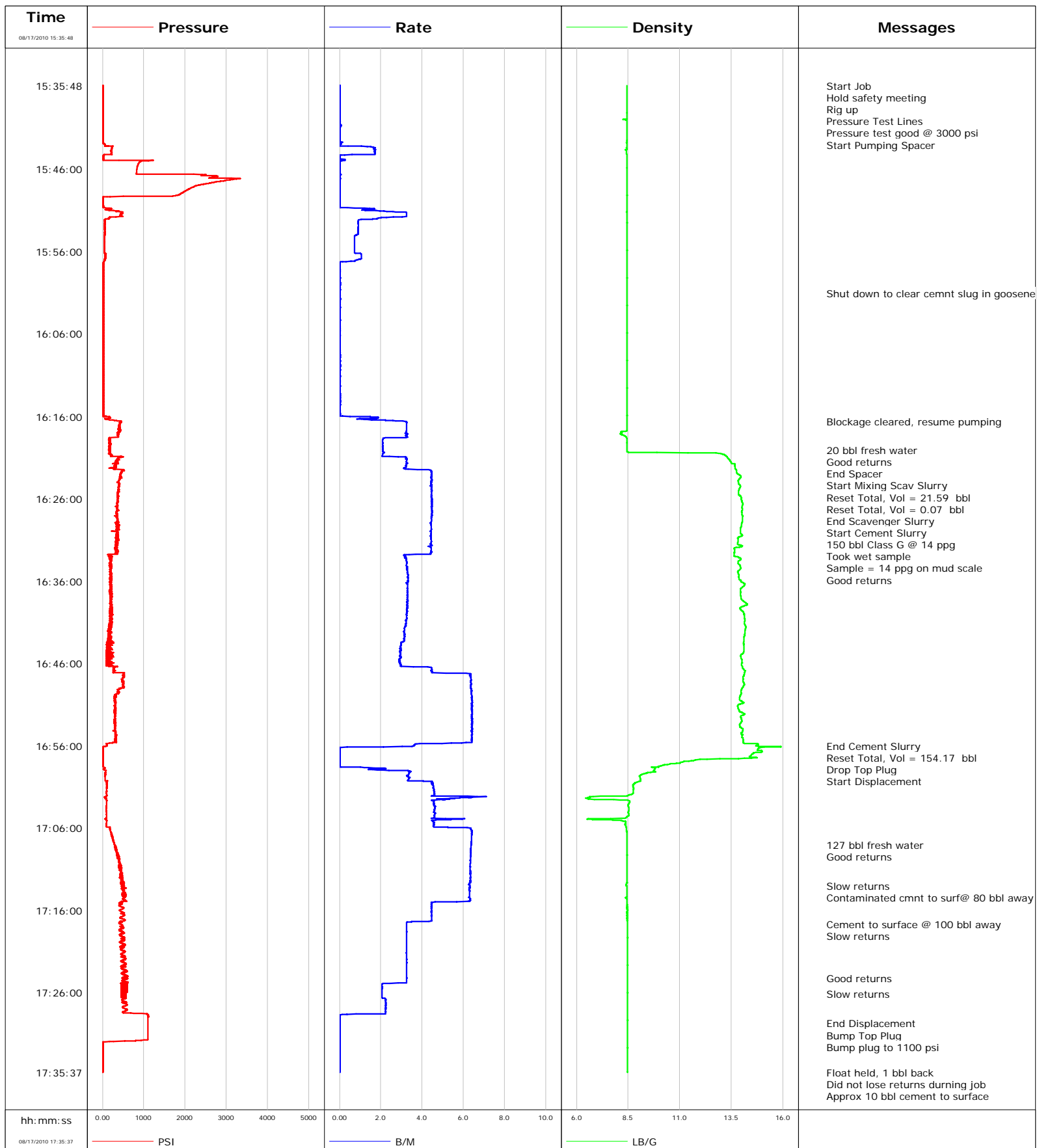


**Well** WF11A-22 K22 596  
**Field** N Parachute  
**Engineer** Dave Wanczyk  
**Country** United States

**Client** Encana  
**SIR No.** BAD4-00143  
**Job Type** 9 5/8" Surface Casing  
**Job Date** 08-17-2010



## Cementing Service Report

					Customer		Job Number	
					Encana		BAD4-00143	
Well			Location (legal)		Schlumberger Location			Job Start
WF11A-22 K22 596					Grand Junction, CO			Aug/17/2010
Field		Formation Name/Type		Deviation	Bit Size		Well MD	Well TVD
N Parachute		Shale			12.3 in		1699.0 ft	1699.0 ft
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient	
Garfield		Colorado			100 degF	87 degF		
Well Master		API/UWI						
0631203044								
Rig Name	Drilled For	Service Via	Casing/Liner					
Patterson 303	Gas	Land						
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class	Well Type	120.0	16.000	65.0	J55	8RD	
	New	Development	1699.0	9.630	36.0	J55	8RD	
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe				
Bentonite		9.50 lb/gal						
			Depth,	Size,	Weight,	Grade	Thread	
Service Line	Job Type							
Cementing	9 5/8" Surface Casing							
Max. Allowed Tub. Press		Max. Allowed Ann. Press	WH Connection	Perforations/Open Hole				
3520 psi		1697 psi	Single Cement head					
			Top,	Bottom,		No. of Shots	Total Interval	
Service Instructions								
ement 9 5/8" casing @ 1693 FT								
12 1/4 Open hole with								
50% Excess								
20 bbl water								
551 sks 14.0 ppg NPR tail (TOT 0 ft)								
Displace with water								
				Treat Down	Displacement	Packer Type	Packer Depth	
				Casing	127.9 bbl			
				Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.	
					131.3 bbl	104.0 bbl	272.0 bbl	
Casing/Tubing Secured		1 Hole Vol. Circulated prior to Cement		Casing Tools			Squeeze Job	
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						
Lift Pressure				Shoe Type		Guide	Squeeze Type	
Pipe Rotated		Pipe Reciprocated		Shoe Depth		1699.0 ft	Tool Type	
<input type="checkbox"/>		<input type="checkbox"/>						
No. Centralizers		Top Plugs	1	Bottom Plugs	0	Stage Tool Type		Tool Depth
Cement Head Type				Stage Tool Depth		Tail Pipe Size		
Single								
Job Scheduled For		Arrived on Location	Leave Location	Collar Type		Diff-Fill	Tail Pipe Depth	
Aug/17/2010		Aug/17/2010	Aug/17/2010	Collar Depth		1655.0 ft	Sqz. Total Vol.	
Date	Time	Treating	Flow	Density	Volume	Message		
	24-hr	Pressure	Rate	LB/G	BBL			
	clock	PSI	B/M					
08/17/2010	14:42:32					Started Acquisition		
08/17/2010	15:35:48	7	0.0	8.43	0.0			
08/17/2010	15:35:51					Start Job		
08/17/2010	15:35:51	8	0.0	8.43	0.0			
08/17/2010	15:35:52	7	0.0	8.44	0.0			
08/17/2010	15:35:53					Hold safety meeting		
08/17/2010	15:35:53					Rig up		
08/17/2010	15:35:53	8	0.0	8.44	0.0			
08/17/2010	15:35:55					Pressure Test Lines		
08/17/2010	15:35:55	7	0.0	8.43	0.0			
08/17/2010	15:35:58					Pressure test good @ 3000 psi		
08/17/2010	15:35:58	7	0.0	8.44	0.0			
08/17/2010	15:36:01					Start Pumping Spacer		
08/17/2010	15:36:01	7	0.0	8.44	0.0			
08/17/2010	15:37:32	7	0.0	8.44	0.0			
08/17/2010	15:39:12	7	0.0	8.43	0.0			
08/17/2010	15:40:52	6	0.0	8.44	0.1			
08/17/2010	1							

Well			Field		Job Start		Customer		Job Number	
WF11A-22 K22 596			N Parachute		Aug/17/2010		Encana		BAD4-00143	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
08/17/2010	15:50:52	119	1.7	8.44	2.2					
08/17/2010	15:52:32	46	0.9	8.44	5.7					
08/17/2010	15:54:12	57	0.7	8.45	7.2					
08/17/2010	15:55:52	45	0.7	8.45	8.4					
08/17/2010	15:57:32	22	0.0	8.45	9.6					
08/17/2010	15:59:12	20	0.0	8.45	9.6					
08/17/2010	16:00:52	20	0.0	8.45	9.7					
08/17/2010	16:01:00					Shut down to clear cemnt slug in gooseneck				
08/17/2010	16:01:00	20	0.0	8.45	9.7					
08/17/2010	16:02:32	20	0.0	8.45	9.7					
08/17/2010	16:04:12	20	0.0	8.45	9.7					
08/17/2010	16:05:52	19	0.0	8.45	9.8					
08/17/2010	16:07:32	20	0.0	8.45	9.8					
08/17/2010	16:09:12	19	0.0	8.45	9.8					
08/17/2010	16:10:52	19	0.0	8.45	9.9					
08/17/2010	16:12:32	20	0.0	8.45	9.9					
08/17/2010	16:14:12	20	0.0	8.45	9.9					
08/17/2010	16:15:52	19	0.0	8.45	9.9					
08/17/2010	16:16:35					Blockage cleared, resume pumping				
08/17/2010	16:16:35	464	3.2	8.44	11.0					
08/17/2010	16:17:32	401	3.3	8.44	14.1					
08/17/2010	16:19:12	162	2.1	8.44	18.8					
08/17/2010	16:20:03					20 bbl fresh water				
08/17/2010	16:20:03	183	2.1	8.44	20.6					
08/17/2010	16:20:04					Good returns				
08/17/2010	16:20:04	157	2.1	8.44	20.6					
08/17/2010	16:20:28					End Spacer				
08/17/2010	16:20:28	156	2.1	12.90	21.5					
08/17/2010	16:20:30					Start Mixing Scav Slurry				
08/17/2010	16:20:30	153	2.1	12.97	21.5					
08/17/2010	16:20:32					Reset Total, Vol = 21.59 bbl				
08/17/2010	16:20:32	184	2.1	13.04	21.6					
08/17/2010	16:20:34					Reset Total, Vol = 0.07 bbl				
08/17/2010	16:20:34	189	2.1	13.06	21.7					
08/17/2010	16:20:52	437	2.4	13.27	22.3					
08/17/2010	16:22:32	517	4.4	13.74	27.8					
08/17/2010	16:23:12					End Scavenger Slurry				
08/17/2010	16:23:12	443	4.5	13.95	30.7					
08/17/2010	16:23:14					Start Cement Slurry				
08/17/2010	16:23:14	423	4.5	13.96	30.9					
08/17/2010	16:23:20					150 bbl Class G @ 14 ppg				
08/17/2010	16:23:20	442	4.5	13.97	31.3					
08/17/2010	16:23:21					Took wet sample				
08/17/2010	16:23:21					Sample = 14 ppg on mud scale				
08/17/2010	16:23:21					Good returns				
08/17/2010	16:23:21	414	4.4	13.97	31.4					
08/17/2010	16:24:12	423	4.4	13.86	35.2					
08/17/2010	16:25:52	374	4.4	13.97	42.6					
08/17/2010	16:27:32	345	4.5	14.00	50.1					
08/17/2010	16:29:12	348	4.4	13.99	57.5					
08/17/2010	16:30:52	377	4.4	13.81	64.9					
08/17/2010	16:32:32	340	4.4	13.63	72.3					
08/17/2010	16:34:12	217	3.3	13.94	77.9					
08/17/2010	16:35:52	217	3.3	13.93	83.4					

Well			Field		Job Start		Customer		Job Number	
WF11A-22 K22 596			N Parachute		Aug/17/2010		Encana		BAD4-00143	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
08/17/2010	16:39:12	249	3.3	13.94	94.3					
08/17/2010	16:40:52	194	3.2	14.14	99.8					
08/17/2010	16:42:32	135	3.1	14.14	105.1					
08/17/2010	16:44:12	112	2.9	14.10	110.1					
08/17/2010	16:45:52	196	2.9	14.01	115.0					
08/17/2010	16:47:32	516	6.3	14.09	122.4					
08/17/2010	16:49:12	365	6.4	13.98	133.0					
08/17/2010	16:50:52	300	6.4	13.99	143.7					
08/17/2010	16:52:32	297	6.4	13.94	154.4					
08/17/2010	16:54:12	302	6.4	14.04	165.1					
08/17/2010	16:55:52	114	3.7	14.80	175.2					
08/17/2010	16:56:01					End Cement Slurry				
08/17/2010	16:56:01	108	3.6	14.68	175.8					
08/17/2010	16:56:02					Reset Total, Vol = 154.17 bbl				
08/17/2010	16:56:02	112	3.6	14.71	175.8					
08/17/2010	16:56:05					Drop Top Plug				
08/17/2010	16:56:05	35	3.0	15.89	176.0					
08/17/2010	16:56:06					Start Displacement				
08/17/2010	16:56:06	6	2.1	15.90	176.1					
08/17/2010	16:57:32	8	0.0	13.84	176.1					
08/17/2010	16:59:12	72	3.4	9.65	177.6					
08/17/2010	17:00:52	109	4.6	8.73	183.8					
08/17/2010	17:02:32	100	4.8	7.79	192.0					
08/17/2010	17:04:12	97	4.6	8.52	199.6					
08/17/2010	17:05:52	96	4.6	8.40	207.4					
08/17/2010	17:07:32	260	6.4	8.45	218.0					
08/17/2010	17:08:00					127 bbl fresh water				
08/17/2010	17:08:00	287	6.4	8.45	220.9					
08/17/2010	17:08:01					Good returns				
08/17/2010	17:08:01	287	6.4	8.45	221.0					
08/17/2010	17:09:12	351	6.4	8.45	228.6					
08/17/2010	17:10:52	400	6.3	8.45	239.1					
08/17/2010	17:12:32	446	6.3	8.43	249.7					
08/17/2010	17:12:59					Slow returns				
08/17/2010	17:12:59	526	6.3	8.44	252.5					
08/17/2010	17:14:00					Contaminated cmnt to surf@ 80 bbl away				
08/17/2010	17:14:00	563	6.3	8.45	258.9					
08/17/2010	17:14:12	489	6.3	8.45	260.2					
08/17/2010	17:15:52	450	4.5	8.45	269.0					
08/17/2010	17:17:32	422	3.3	8.45	276.1					
08/17/2010	17:17:36					Cement to surface @ 100 bbl away				
08/17/2010	17:17:36	439	3.3	8.45	276.4					
08/17/2010	17:17:37					Slow returns				
08/17/2010	17:17:37	448	3.3	8.45	276.4					
08/17/2010	17:19:12	508	3.3	8.46	281.6					
08/17/2010	17:20:52	524	3.3	8.46	287.0					
08/17/2010	17:22:32	531	3.3	8.45	292.4					
08/17/2010	17:24:12					Good returns				
08/17/2010	17:24:12	466	3.3	8.46	297.8					
08/17/2010	17:25:52	606	2.1	8.46	302.0					
08/17/2010	17:26:06					Slow returns				
08/17/2010	17:26:06	552	2.1	8.45	302.5					
08/17/2010	17:27:32	575	2.2	8.46	305.6					
08/17/2010	17:29:12	1102	0.0	8.46	307.9					

Well			Field		Job Start	Customer	Job Number
WF11A-22 K22 596			N Parachute		Aug/17/2010	Encana	BAD4-00143
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
08/17/2010	17:29:39	1103	0.0	8.46	307.9		
08/17/2010	17:29:40					Bump Top Plug	
08/17/2010	17:29:40	1103	0.0	8.46	307.9		
08/17/2010	17:29:42					Bump plug to 1100 psi	
08/17/2010	17:29:42	1104	0.0	8.46	307.9		
08/17/2010	17:30:52	1105	0.0	8.46	307.9		
08/17/2010	17:32:32	10	0.0	8.46	307.9		
08/17/2010	17:34:12	10	0.0	8.46	308.0		
08/17/2010	17:35:37	9	0.0	8.46	308.0		
08/17/2010	17:35:37					Float held, 1 bbl back	
08/17/2010	17:35:37					Did not lose returns during job	
08/17/2010	17:35:37					Approx 10 bbl cement to surface	
08/17/2010	17:35:37					End Job	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 5.5	N2		Mud	Maximum Rate 8.0	Total Slurry 150.0	Mud	Spacer 20.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 3000	Final 0	Average 300	Bump Plug to 1100	Breakdown	Type		Volume		Density	
Avg. N2 Percent		Designed Slurry Volume 150.0 bbl		Displacement 128.0 bbl		Mix Water Temp 70 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 10.0 bbl	
						Washed Thru Perfs <input type="checkbox"/>		To		
Customer or Authorized Representative Larry Candelaria			Schlumberger Supervisor Dave Wanczyk			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>			
						-		-		