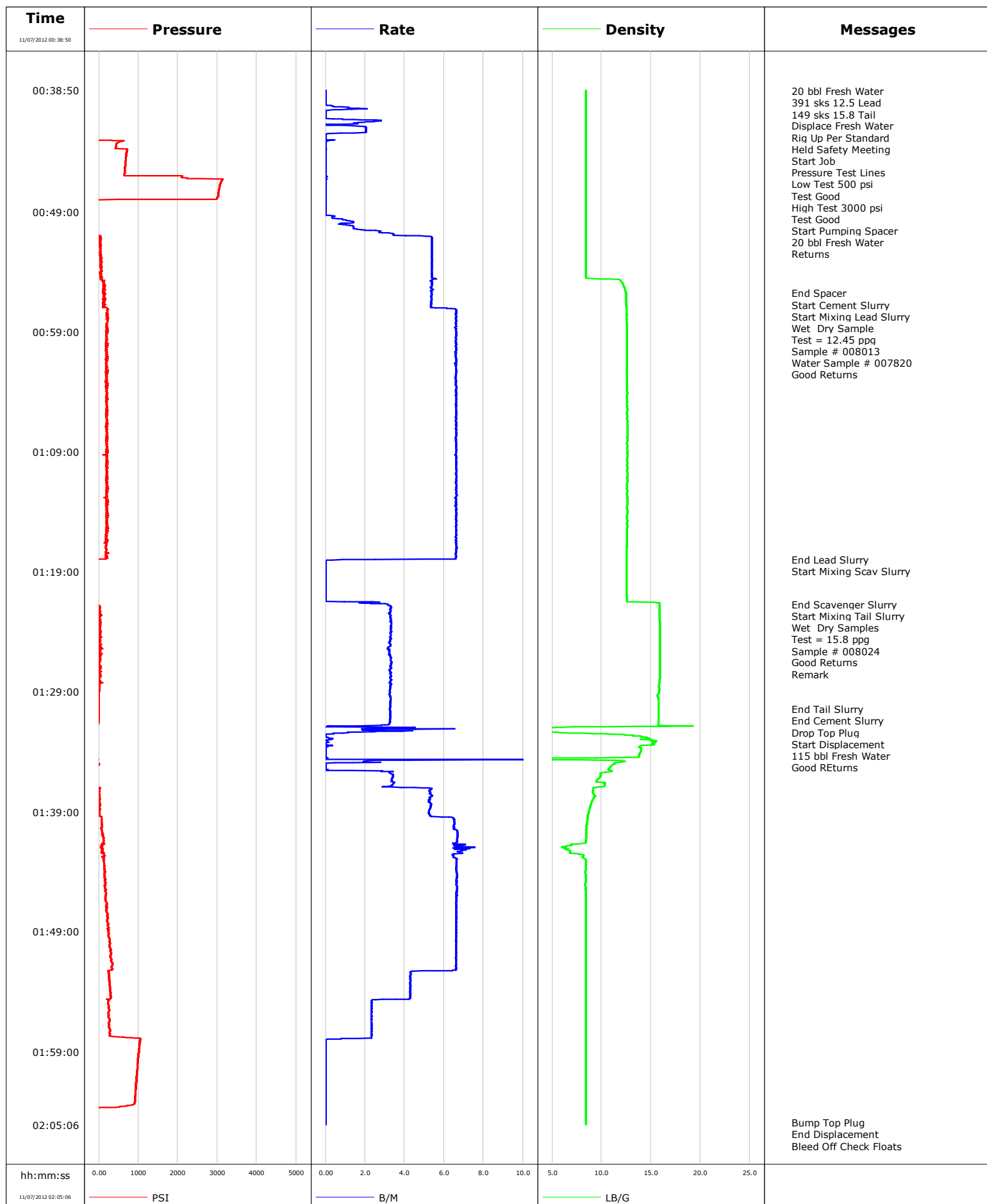


**Well** Benzel Federal 24-14D  
**Field** Mamm Creek  
**Engineer** Jordan Moreland  
**Country** United States

**Client** Encana  
**SIR No.**  
**Job Type** 9 5/8 Surface  
**Job Date** 11-07-2012





# Cementing Service Report

				Customer Encana			Job Number C610-00871								
Well Benzel Federal 24-14D			Location (legal) F25NWB			Schlumberger Location GCO			Job Start Nov/07/2012						
Field Mamm Creek		Formation Name/Type			Deviation		Bit Size 12.3 in		Well MD 1555.0 ft		Well TVD 1555.0 ft				
County Garfield		State/Province Colorado			BHP		BHST 100 degF		BHCT 85 degF		Pore Press. Gradient				
Well Master 0631296759		API/UWI 05045208740000													
Rig Name Patterson 308		Drilled For Gas		Service Via		Casing/Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Offshore Zone		Well Class New		Well Type Development		40.0		16.000		65.0					
						1527.0		9.630		36.0					
Drilling Fluid Type			Max. Density 9.00 lb/gal		Plastic Viscosity 12.000 cP		Tubing/Drill Pipe								
							Depth,		Size,		Weight,		Grade		Thread
Service Line Cementing		Job Type 9 5/8 Surface													
Max. Allowed Tub. Press 3000 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole									
						Top,		Bottom,				No. of Shots		Total Interval	
Service Instructions Rate And Density Checked 20 bbl Fresh Water 391 sks 12.5 Lead 149 sks 15.8 Tail Displace Fresh Water														Diameter	
						Treat Down Casing		Displacement 115.0 bbl		Packer Type		Packer Depth			
Tubing Vol.		Casing Vol. 116.0 bbl		Annular Vol. 88.0 bbl		Openhole Vol. 210.0 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 756 psi				Shoe Type Guide				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1527.0 ft				Tool Type							
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth					
Cement Head Type Single				Stage Tool Depth				Tail Pipe Size							
Job Scheduled For Nov/07/2012		Arrived on Location Nov/07/2012		Leave Location Nov/07/2012		Collar Type Float				Tail Pipe Depth					
						Collar Depth 1483.0 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
11/07/2012	00:38:20					Started Acquisition									
11/07/2012	00:38:50	-157	0.0	8.40	0.0										
11/07/2012	00:38:54					20 bbl Fresh Water									
11/07/2012	00:38:54					391 sks 12.5 Lead									
11/07/2012	00:38:54					149 sks 15.8 Tail									
11/07/2012	00:38:54					Displace Fresh Water									
11/07/2012	00:38:54					Rig Up Per Standard									
11/07/2012	00:38:54					Held Safety Meeting									
11/07/2012	00:38:54	-158	0.0	8.40	0.0										
11/07/2012	00:38:56					Start Job									
11/07/2012	00:38:56	-157	0.0	8.40	0.0										
11/07/2012	00:38:58					Pressure Test Lines									
11/07/2012	00:38:58	-157	0.0	8.40	0.0										
11/07/2012	00:39:00					Low Test 500 psi									
11/07/2012	00:39:00					Test Good									
11/07/2012	00:39:00	-158	0.0	8.40	0.0										
11/07/2012	00:39:01					High Test 3000 psi									
11/07/2012	00:39:01					Test Good									
11/07/2012	00:39:01	-157	0.0	8.40	0.0										
11/07/2012	00:40:20	-151	1.2	8.39	0.2										
11/07/2012	00:42:20	-103	2.1	8.40	2.4										

Well			Field		Job Start		Customer		Job Number	
Benzel Federal 24-14D			Mamm Creek		Nov/07/2012		Encana		C610-00871	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
11/07/2012	00:46:20	3117	0.0	8.40	2.6					
11/07/2012	00:48:20	-157	0.0	8.40	2.6					
11/07/2012	00:49:43					Start Pumping Spacer				
11/07/2012	00:49:43	-124	1.1	8.40	2.9					
11/07/2012	00:49:45					20 bbl Fresh Water				
11/07/2012	00:49:45	-124	1.3	8.40	2.9					
11/07/2012	00:49:46					Returns				
11/07/2012	00:49:46	-125	1.4	8.40	2.9					
11/07/2012	00:50:20	-108	1.4	8.40	3.6					
11/07/2012	00:52:20	56	5.4	8.40	12.6					
11/07/2012	00:54:20	59	5.4	8.40	23.4					
11/07/2012	00:55:45					End Spacer				
11/07/2012	00:55:45	136	5.4	12.46	31.0					
11/07/2012	00:55:47					Start Cement Slurry				
11/07/2012	00:55:47	104	5.4	12.47	31.2					
11/07/2012	00:55:48					Start Mixing Lead Slurry				
11/07/2012	00:55:48	104	5.4	12.46	31.3					
11/07/2012	00:55:49					Wet Dry Sample				
11/07/2012	00:55:49	173	5.4	12.47	31.4					
11/07/2012	00:55:50					Test = 12.45 ppg				
11/07/2012	00:55:50					Sample # 008013				
11/07/2012	00:55:50					Water Sample # 007820				
11/07/2012	00:55:50					Good Returns				
11/07/2012	00:55:50	117	5.4	12.47	31.4					
11/07/2012	00:56:20	102	5.4	12.47	34.1					
11/07/2012	00:58:20	193	6.6	12.56	46.5					
11/07/2012	01:00:20	190	6.6	12.58	59.7					
11/07/2012	01:02:20	226	6.6	12.56	72.9					
11/07/2012	01:04:20	197	6.6	12.59	86.1					
11/07/2012	01:06:20	207	6.6	12.60	99.3					
11/07/2012	01:08:20	207	6.6	12.59	112.5					
11/07/2012	01:10:20	225	6.6	12.61	125.8					
11/07/2012	01:12:20	189	6.6	12.60	139.0					
11/07/2012	01:14:20	214	6.6	12.60	152.2					
11/07/2012	01:16:20	215	6.6	12.57	165.4					
11/07/2012	01:17:59					End Lead Slurry				
11/07/2012	01:17:59	-138	2.5	12.52	176.2					
11/07/2012	01:18:04					Start Mixing Scav Slurry				
11/07/2012	01:18:04	-135	0.0	12.53	176.2					
11/07/2012	01:18:20	-130	0.0	12.53	176.2					
11/07/2012	01:20:20	-129	0.0	12.55	176.2					
11/07/2012	01:21:42					End Scavenger Slurry				
11/07/2012	01:21:42	-21	3.1	15.86	176.7					
11/07/2012	01:21:44					Start Mixing Tail Slurry				
11/07/2012	01:21:44	-27	3.2	15.86	176.8					
11/07/2012	01:21:46					Wet Dry Samples				
11/07/2012	01:21:46	-9	3.2	15.86	176.9					
11/07/2012	01:21:47					Test = 15.8 ppg				
11/07/2012	01:21:47					Sample # 008024				
11/07/2012	01:21:47					Good Returns				
11/07/2012	01:21:47	15	3.2	15.86	177.0					
11/07/2012	01:21:48					Remark				
11/07/2012	01:21:48	-4	3.2	15.86	177.0					
11/07/2012	01:22:20	34	3.3	15.87	178.8					

Well			Field		Job Start		Customer		Job Number	
Benzel Federal 24-14D			Mamm Creek		Nov/07/2012		Encana		C610-00871	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL	Message		
11/07/2012	01:26:20	18		3.3	15.90		191.9			
11/07/2012	01:28:20	33		3.3	15.86		198.5			
11/07/2012	01:30:20	-9		3.3	15.78		205.1			
11/07/2012	01:30:27							End Tail Slurry		
11/07/2012	01:30:27	-10		3.3	15.77		205.4			
11/07/2012	01:30:28							End Cement Slurry		
11/07/2012	01:30:28	-9		3.3	15.78		205.5			
11/07/2012	01:30:30							Drop Top Plug		
11/07/2012	01:30:30	-10		3.2	15.77		205.6			
11/07/2012	01:30:31							Start Displacement		
11/07/2012	01:30:31	-6		3.3	15.77		205.6			
11/07/2012	01:30:32							115 bbl Fresh Water		
11/07/2012	01:30:32							Good RReturns		
11/07/2012	01:30:32	-6		3.3	15.77		205.7			
11/07/2012	01:32:20	-125		2.3	2.68		211.2			
11/07/2012	01:34:20	-131		0.0	13.79		211.5			
11/07/2012	01:36:20	-53		3.4	9.59		215.8			
11/07/2012	01:38:20	30		5.3	8.95		225.1			
11/07/2012	01:40:20	79		6.5	8.46		236.7			
11/07/2012	01:42:20	93		6.7	6.81		250.2			
11/07/2012	01:44:20	150		6.7	8.39		263.4			
11/07/2012	01:46:20	167		6.6	8.40		276.7			
11/07/2012	01:48:20	240		6.6	8.40		289.9			
11/07/2012	01:50:20	276		6.6	8.40		303.1			
11/07/2012	01:52:20	228		4.4	8.40		316.2			
11/07/2012	01:54:20	298		4.3	8.40		324.8			
11/07/2012	01:56:20	274		2.3	8.40		330.1			
11/07/2012	01:58:20	1033		0.0	8.40		333.8			
11/07/2012	02:00:20	972		0.0	8.40		333.8			
11/07/2012	02:02:20	928		0.0	8.40		333.9			
11/07/2012	02:04:20	-150		0.0	8.40		333.9			
11/07/2012	02:04:55							Bump Top Plug		
11/07/2012	02:04:55	-151		0.0	8.40		333.9			
11/07/2012	02:04:56							End Displacement		
11/07/2012	02:04:56	-151		0.0	8.40		333.9			
11/07/2012	02:05:01							Bleed Off Check Floats		
11/07/2012	02:05:01							Floats Held		
11/07/2012	02:05:01							3 /4 bbl Back		
11/07/2012	02:05:01							60 bbl Cement To Surface		
11/07/2012	02:05:01							Rig down		
11/07/2012	02:05:01							End Job		
11/07/2012	02:05:01	-150		0.0	8.40		333.9			

<b>Well</b> Benzel Federal 24-14D	<b>Field</b> Mamm Creek	<b>Job Start</b> Nov/07/2012	<b>Customer</b> Encana	<b>Job Number</b> C610-00871
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Post Job Summary

Average Pump Rates,					Volume of Fluid Injected,			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
Treating Pressure Summary,					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>		Volume
				60 degF	Washed Thru Perfs	<input type="checkbox"/>		To
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost	<input type="checkbox"/>	Job Completed
Erasmio Parras			Jordan Moreland			-		-