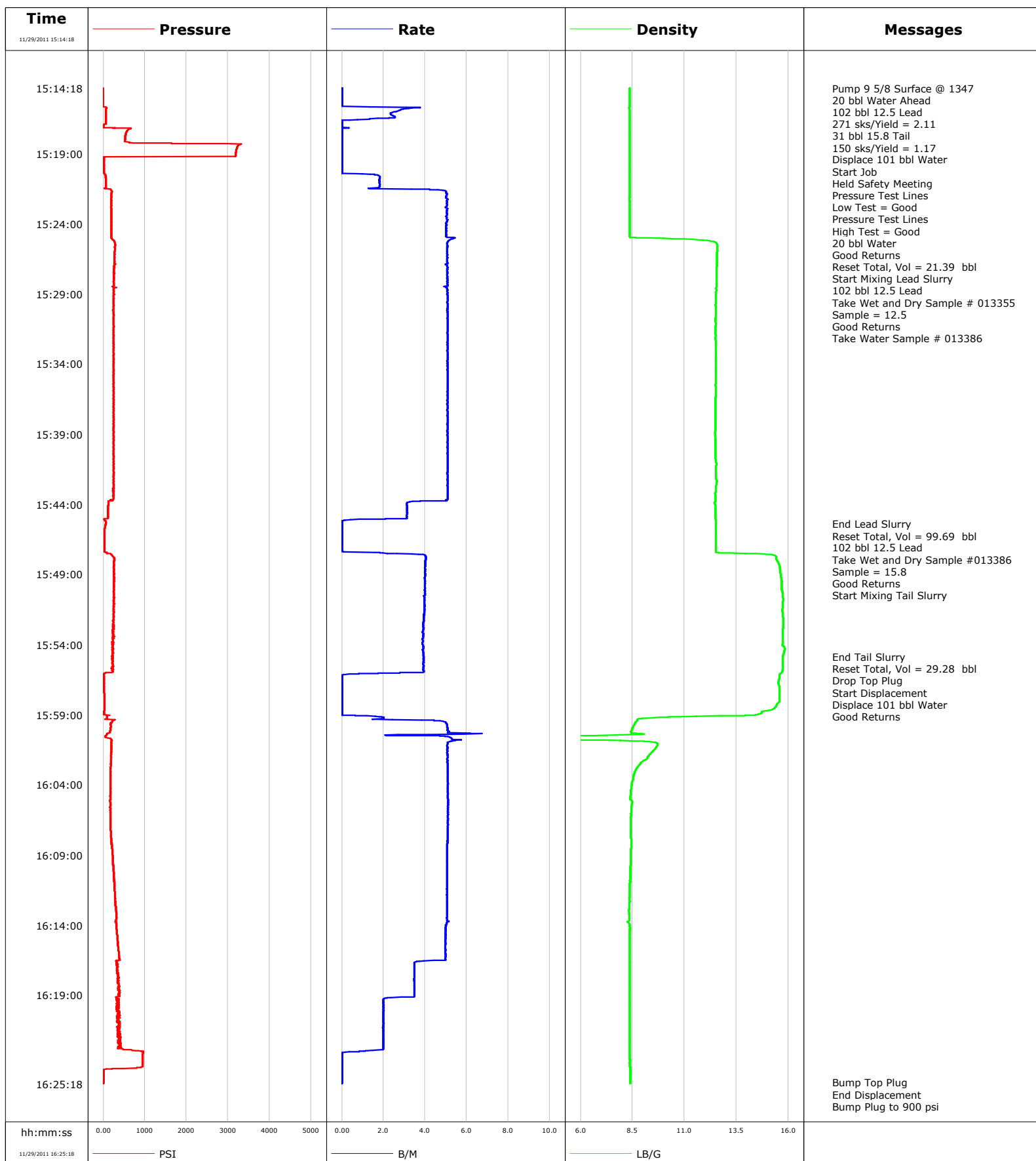


**Well** EF19-5A  
**Field** Russell Bolding  
**Engineer** Tom Leduc  
**Country** United States

**Client** Encana  
**SIR No.**  
**Job Type** 9 5/8 Surface  
**Job Date** 11-29-2011





# Cementing Service Report

				Customer Encana		Job Number BUNM-00365	
Well EF19-5A 19-5A			Location (legal) Hunter Mesa		Schlumberger Location Grand Junction		Job Start Nov/29/2011
Field Russell Bolding		Formation Name/Type Shale		Deviation 0 deg	Bit Size 12.3 in	Well MD 1347.0 ft	Well TVD 1347.0 ft
County Garfield		State/Province Colorado		BHP	BHST 95 degF	BHCT 82 degF	Pore Press. Gradient
Well Master 0631286870		API/UWI					
Rig Name Nabors M13		Drilled For Gas	Service Via Land	Casing/Liner			
				Depth, ft	Size, in	Weight, lb/ft	Grade
Offshore Zone		Well Class New	Well Type Development	1347.0	9.630	36.0	J55
				0.0	0.000	0.0	
Drilling Fluid Type Bentonite		Max. Density 9.20 lb/gal	Plastic Viscosity 40.000 cP	Tubing/Drill Pipe			
				Depth,	Size,	Weight,	Grade
Service Line Cementing		Job Type 9 5/8 Surface					
Max. Allowed Tub. Press 3000 psi		Max. Allowed Ann. Press 500 psi	WH Connection Single Cement head	Perforations/Open Hole			
				Top,	Bottom,	No. of Shots	Total Interval
							Diameter
				Treat Down Casing	Displacement 100.0 bbl	Packer Type	Packer Depth
				Tubing Vol.	Casing Vol. 103.0 bbl	Annular Vol. 78.0 bbl	Openhole Vol. 186.0 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 666 psi				Shoe Type Float		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1347.0 ft		Tool Type	
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type		Tool Depth	
Cement Head Type Single				Stage Tool Depth		Tail Pipe Size	
Job Scheduled For Nov/29/2011 14:00		Arrived on Location Nov/29/2011 14:00	Leave Location Nov/29/2011 18:00	Collar Type Float		Tail Pipe Depth	
				Collar Depth 1301.0 ft		Sqz. Total Vol.	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
11/29/2011	14:39:49					Started Acquisition	
11/29/2011	15:14:18					Pump 9 5/8 Surface @ 1347	
11/29/2011	15:14:18					20 bbl Water Ahead	
11/29/2011	15:14:18					102 bbl 12.5 Lead	
11/29/2011	15:14:18					271 sks/Yield = 2.11	
11/29/2011	15:14:18	-0	0.0	8.38	0.0		
11/29/2011	15:14:19					31 bbl 15.8 Tail	
11/29/2011	15:14:19					150 sks/Yield = 1.17	
11/29/2011	15:14:19					Displace 101 bbl Water	
11/29/2011	15:14:19	-0	0.0	8.38	0.0		
11/29/2011	15:14:24					Start Job	
11/29/2011	15:14:24	-0	0.0	8.38	0.0		
11/29/2011	15:14:25					Held Safety Meeting	
11/29/2011	15:14:25	-0	0.0	8.38	0.0		
11/29/2011	15:14:26					Pressure Test Lines	
11/29/2011	15:14:26	-0	0.0	8.38	0.0		
11/29/2011	15:14:27					Low Test = Good	
11/29/2011	15:14:27	-0	0.0	8.38	0.0		
11/29/2011	15:14:28					Pressure Test Lines	
11/29/2011	15:14:28					High Test = Good	
11/29/2011	15:14:28	-0	0.0	8.38	0.0		

Well			Field		Job Start	Customer	Job Number
EF19-5A 19-5A			Russell Bolding		Nov/29/2011	Encana	BUNM-00365
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
11/29/2011	15:14:29					Good Returns	
11/29/2011	15:14:29	-0	0.0	8.38	0.0		
11/29/2011	15:14:49	-0	0.0	8.38	0.0		
11/29/2011	15:16:29	66	1.7	8.37	2.2		
11/29/2011	15:18:09	521	0.0	8.38	2.4		
11/29/2011	15:19:49	16	0.0	8.38	2.4		
11/29/2011	15:21:29	56	1.4	8.37	4.2		
11/29/2011	15:23:09	197	5.0	8.37	12.4		
11/29/2011	15:24:49	197	5.0	8.37	20.8		
11/29/2011	15:24:56					Reset Total, Vol = 21.39 bbl	
11/29/2011	15:24:56	196	5.1	8.37	21.4		
11/29/2011	15:25:17					Start Mixing Lead Slurry	
11/29/2011	15:25:17	269	5.1	12.43	23.2		
11/29/2011	15:25:18					102 bbl 12.5 Lead	
11/29/2011	15:25:18					Take Wet and Dry Sample # 013355	
11/29/2011	15:25:18					Sample = 12.5	
11/29/2011	15:25:18					Good Returns	
11/29/2011	15:25:18					Take Water Sample # 013386	
11/29/2011	15:25:18	282	5.1	12.46	23.3		
11/29/2011	15:26:29	263	5.1	12.56	29.3		
11/29/2011	15:28:09	248	5.1	12.53	37.7		
11/29/2011	15:29:49	254	5.1	12.50	46.2		
11/29/2011	15:31:29	251	5.1	12.50	54.7		
11/29/2011	15:34:49	245	5.1	12.51	71.6		
11/29/2011	15:36:29	247	5.1	12.49	80.0		
11/29/2011	15:38:09	252	5.1	12.48	88.5		
11/29/2011	15:39:49	245	5.1	12.48	97.0		
11/29/2011	15:41:29	249	5.1	12.52	105.4		
11/29/2011	15:43:09	247	5.1	12.50	113.9		
11/29/2011	15:44:49	115	3.1	12.49	120.3		
11/29/2011	15:45:23					End Lead Slurry	
11/29/2011	15:45:23	64	0.0	12.51	121.1		
11/29/2011	15:45:24					Reset Total, Vol = 99.69 bbl	
11/29/2011	15:45:24	61	0.0	12.51	121.1		
11/29/2011	15:45:25					102 bbl 12.5 Lead	
11/29/2011	15:45:25					Take Wet and Dry Sample #013386	
11/29/2011	15:45:25	58	0.0	12.51	121.1		
11/29/2011	15:45:26					Sample = 15.8	
11/29/2011	15:45:26					Good Returns	
11/29/2011	15:45:26	58	0.0	12.51	121.1		
11/29/2011	15:46:29	25	0.0	12.51	121.1		
11/29/2011	15:48:09	259	4.0	15.51	123.8		
11/29/2011	15:48:45					Start Mixing Tail Slurry	
11/29/2011	15:48:45	265	4.0	15.61	126.2		
11/29/2011	15:49:49	256	4.0	15.68	130.5		
11/29/2011	15:51:29	240	4.0	15.71	137.1		
11/29/2011	15:53:09	218	3.9	15.74	143.7		
11/29/2011	15:54:49	204	3.9	15.74	150.2		
11/29/2011	15:54:51					End Tail Slurry	
11/29/2011	15:54:51	214	3.9	15.73	150.3		
11/29/2011	15:54:52					Reset Total, Vol = 29.28 bbl	
11/29/2011	15:54:52					Drop Top Plug	
11/29/2011	15:54:52	214	3.9	15.73	150.4		
11/29/2011	15:54:53					Start Displacement	

Well			Field		Job Start		Customer		Job Number	
EF19-5A 19-5A			Russell Bolding		Nov/29/2011		Encana		BUNM-00365	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
11/29/2011	15:54:55					Displace 101 bbl Water				
11/29/2011	15:54:55					Good Returns				
11/29/2011	15:54:55	228	3.9	15.73	150.5					
11/29/2011	15:56:29	14	0.0	15.55	155.0					
11/29/2011	15:58:09	35	0.0	15.52	155.0					
11/29/2011	15:59:49	182	5.1	8.54	157.7					
11/29/2011	16:01:29	197	5.1	9.56	166.2					
11/29/2011	16:03:09	177	5.1	8.60	174.6					
11/29/2011	16:04:49	168	5.1	8.40	183.1					
11/29/2011	16:06:29	172	5.1	8.42	191.6					
11/29/2011	16:08:09	203	5.1	8.43	200.1					
11/29/2011	16:09:49	242	5.1	8.40	208.5					
11/29/2011	16:11:29	273	5.1	8.37	216.9					
11/29/2011	16:13:09	315	5.1	8.33	225.4					
11/29/2011	16:14:49	337	5.0	8.38	233.7					
11/29/2011	16:16:29	396	5.0	8.38	242.0					
11/29/2011	16:18:09	388	3.5	8.38	247.9					
11/29/2011	16:19:49	357	2.0	8.38	252.7					
11/29/2011	16:21:29	338	2.0	8.38	256.1					
11/29/2011	16:23:09	956	0.0	8.38	259.0					
11/29/2011	16:24:49	8	0.0	8.38	259.0					
11/29/2011	16:25:12					Bump Top Plug				
11/29/2011	16:25:12	8	0.0	8.38	259.0					
11/29/2011	16:25:13					End Displacement				
11/29/2011	16:25:13	8	0.0	8.38	259.0					
11/29/2011	16:25:14					Bump Plug to 900 psi				
11/29/2011	16:25:14					Bled Off Pressure				
11/29/2011	16:25:14					Floats Held				
11/29/2011	16:25:14					50 bbl Cement to Surface				
11/29/2011	16:25:14					Rig Down				
11/29/2011	16:25:14	8	0.0	8.38	259.0					
11/29/2011	16:25:16					End Job				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl									
Slurry 4.4	N2	Mud 0.0	Maximum Rate 6.8	Total Slurry 259.0	Mud 0.0	Spacer 23.2	N2							
Treating Pressure Summary, psi					Breakdown Fluid									
Maximum 3320	Final 0	Average 277	Bump Plug to 900	Breakdown	Type FreshWater	Volume 294.0 bbl	Density 8.34 lb/gal							
Avg. N2 Percent		Designed Slurry Volume 133.0 bbl		Displacement 108.7 bbl		Mix Water Temp 68 degF		Cement Circulated to Surface?		<input type="checkbox"/>	Volume			
								Washed Thru Perfs		<input type="checkbox"/>	To			
Customer or Authorized Representative Charlie Brown				Schlumberger Supervisor Tom Leduc					Circulation Lost		<input type="checkbox"/>	Job Completed		<input type="checkbox"/>
									-		-			