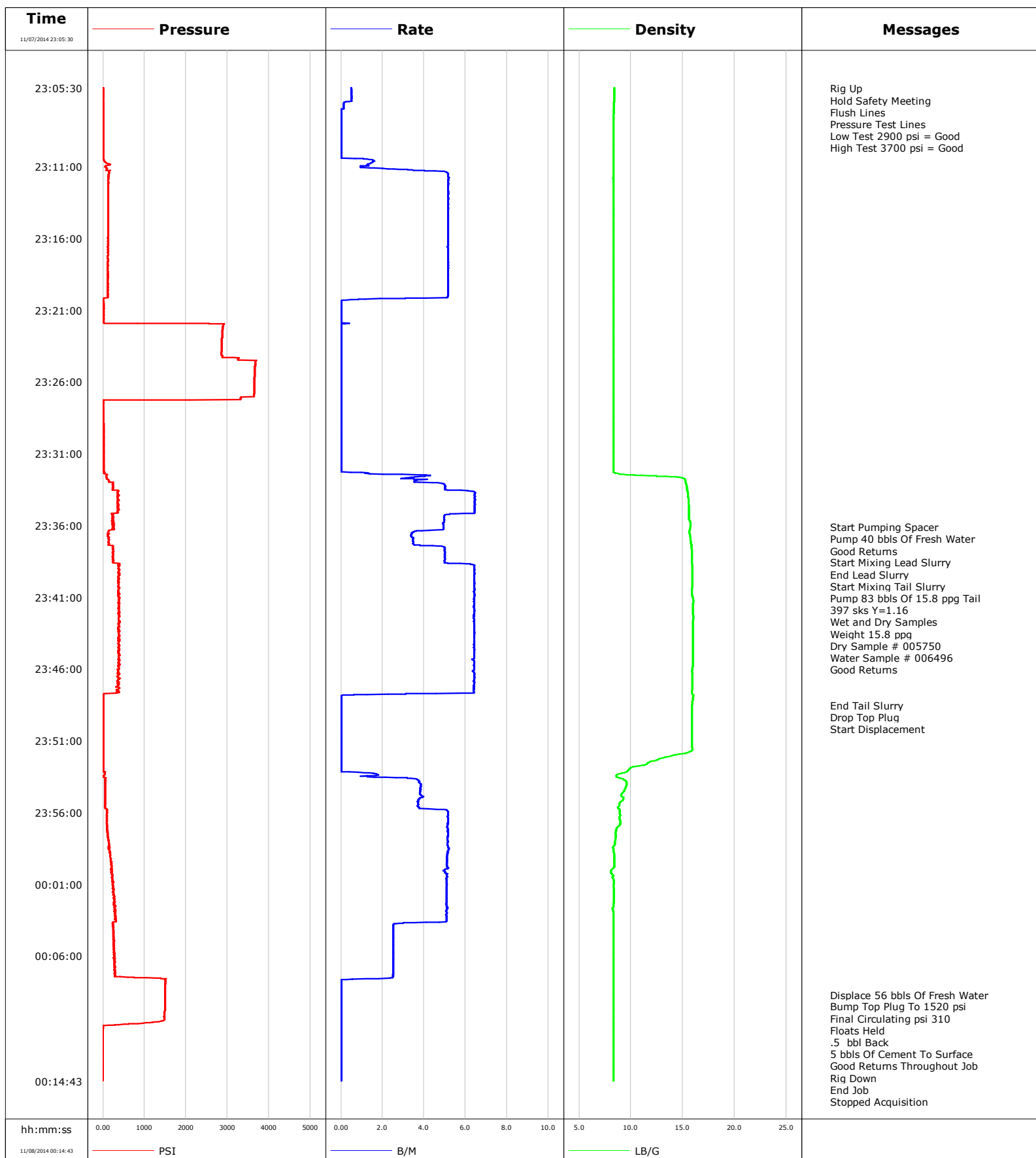


**Well** Windsor LVG #14-H  
**Field** Wattenberg  
**Engineer** Justin Zika/Baird  
**Country** United States

**Client** Extraction  
**SIR No.**  
**Job Type** Surface  
**Job Date** 11-07-2014

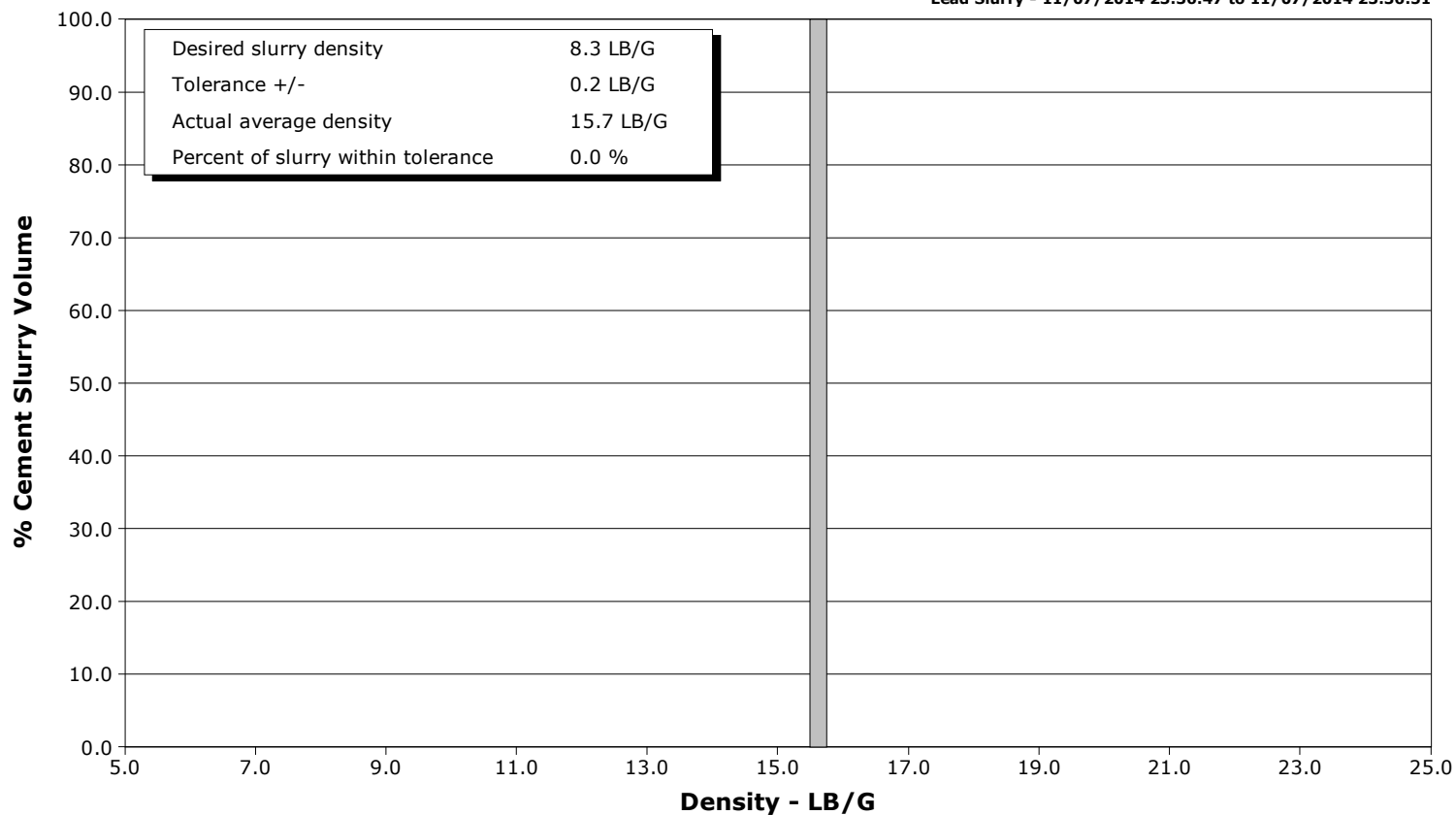


# Schlumberger Cementing Qa/Qc Density Report

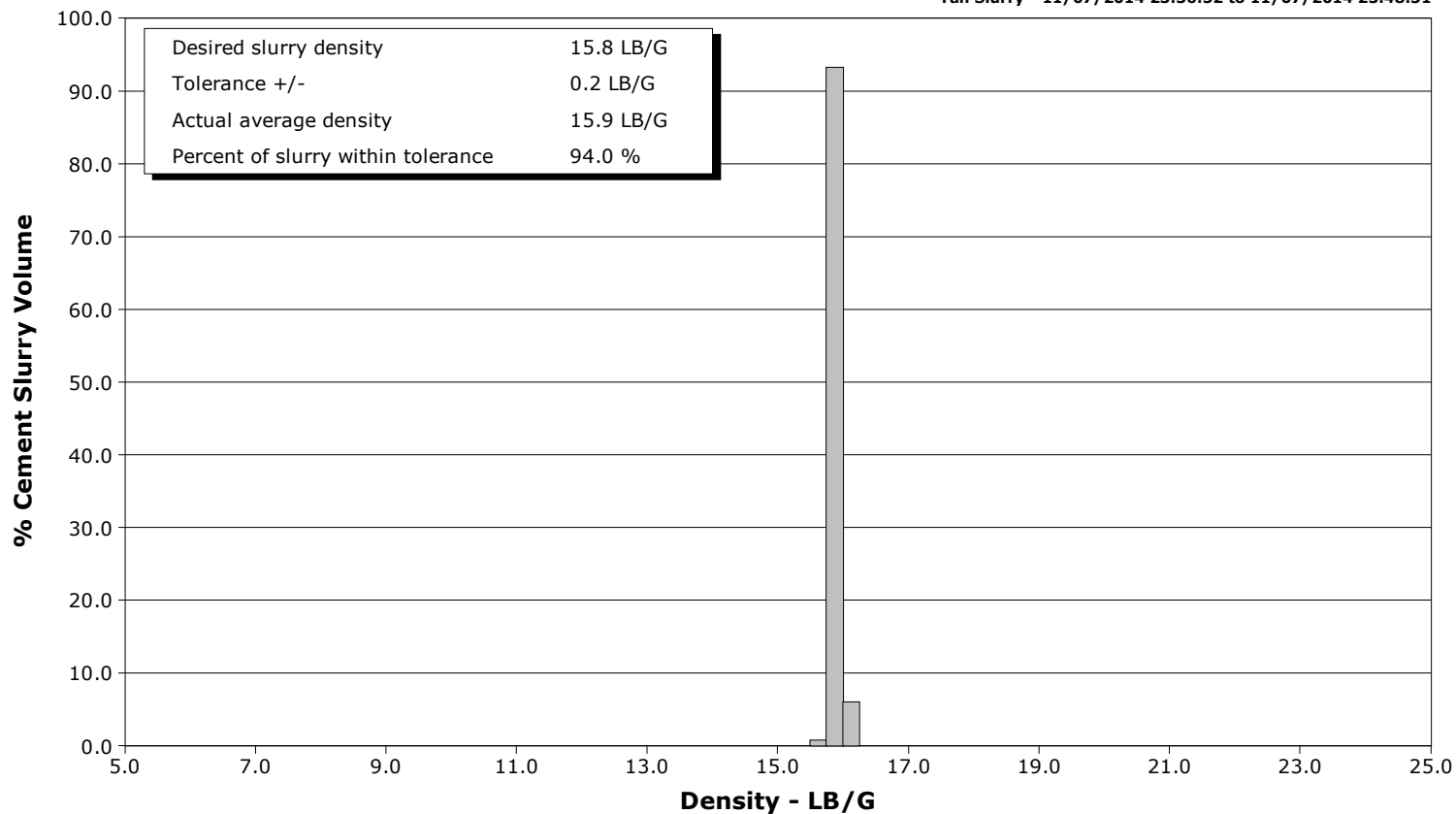
**Well** Windsor LVG #14-H  
**Field** Wattenberg  
**Engineer** Justin Zika/Baird  
**Country** United States

**Client** Extraction  
**SIR No.**  
**Job Type** Surface  
**Job Date** 11-07-2014

Lead Slurry - 11/07/2014 23:36:47 to 11/07/2014 23:36:51



Tail Slurry - 11/07/2014 23:36:52 to 11/07/2014 23:48:31





# Cementing Service Report

				Customer Extraction		Job Number 2054405		
Well Windsor LVG #14-H 2054405			Location (legal) Cheyenne, WY		Schlumberger Location Cheyenne, WY		Job Start Nov/07/2014	
Field Wattenberg		Formation Name/Type Shale		Deviation	Bit Size 13.5 in	Well MD 756.0 ft		Well TVD
County Weld		State/Province Colorado		BHP	BHST 88 degF	BHCT 88 degF	Pore Press. Gradient	
Well Master 631593039		API/UWI						
Rig Name H & P 319	Drilled For Oil	Service Via Land	Casing/Liner					
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class New	Well Type New Well Completion	756.0	9.630	36.0	H40	8RD	
			0.0	0.000	0.0			
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe				
				Depth,	Size,	Weight,	Grade	Thread
Service Line Cementing	Job Type Surface							
Max. Allowed Tub. Press 3500 psi	Max. Allowed Ann. Press	WH Connection Single Cement head	Perforations/Open Hole					
			Top,	Bottom,		No. of Shots	Total Interval	
Service Instructions Rig Up Hold Safety Meeting Flush Lines Pressure Test Pump 40 bbls Of Fresh Water Pump 83 bbls Of 15.8 ppg Tail Drop Top Plug Displace							Diameter	
			Treat Down Casing	Displacement 56.0 bbl	Packer Type	Packer Depth		
			Tubing Vol.	Casing Vol. 59.0 bbl	Annular Vol. 66.0 bbl	Openhole Vol. 125.0 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 374 psi				Shoe Type Float		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 756.0 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/07/2014 21:00		Arrived on Location Nov/07/2014 21:00	Leave Location Nov/07/2014 02:00	Collar Type Float		Tail Pipe Depth		
				Collar Depth 720.0 ft		Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
11/07/2014	22:23:50					Started Acquisition		
11/07/2014	23:05:30	4	0.5	8.42	0.0			
11/07/2014	23:05:34					Rig Up		
11/07/2014	23:05:34					Hold Safety Meeting		
11/07/2014	23:05:34	4	0.5	8.42	0.0			
11/07/2014	23:05:35					Flush Lines		
11/07/2014	23:05:35	4	0.5	8.42	0.1			
11/07/2014	23:05:52					Pressure Test Lines		
11/07/2014	23:05:52	4	0.5	8.42	0.2			
11/07/2014	23:05:54					Low Test 2900 psi = Good		
11/07/2014	23:05:54					High Test 3700 psi = Good		
11/07/2014	23:05:54	4	0.5	8.42	0.2			
11/07/2014	23:07:10	3	0.0	8.34	0.6			
11/07/2014	23:08:50	1	0.0	8.32	0.6			
11/07/2014	23:10:30	7	1.2	8.32	0.7			
11/07/2014	23:12:10	128	5.2	8.32	6.5			
11/07/2014	23:13:50	124	5.2	8.32	15.1			
11/07/2014	23:15:30	121	5.1	8.32	23.7			
11/07/2014	23:17:10	122	5.2	8.32	32.2			
11/07/2014	23:18:50	118	5.2	8.32	40.8			
11/07/2014	23:20:30	14	0.0	8.32	47.9			

Well Windsor LVG #14-H 2054405			Field Wattenberg		Job Start Nov/07/2014	Customer Extraction	Job Number 2054405
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
11/07/2014	23:23:50	2858	0.0	8.32	48.0		
11/07/2014	23:25:30	3658	0.0	8.32	48.0		
11/07/2014	23:27:10	3317	0.0	8.32	48.0		
11/07/2014	23:28:50	11	0.0	8.32	48.0		
11/07/2014	23:30:30	13	0.0	8.32	48.0		
11/07/2014	23:32:10	13	0.0	8.32	48.0		
11/07/2014	23:33:50	367	6.4	15.51	54.6		
11/07/2014	23:35:30	218	5.0	15.58	64.9		
11/07/2014	23:36:07					Start Pumping Spacer	
11/07/2014	23:36:07	272	4.9	15.73	68.0		
11/07/2014	23:36:09					Pump 40 bbls Of Fresh Water	
11/07/2014	23:36:09					Good Returns	
11/07/2014	23:36:09	273	4.9	15.72	68.1		
11/07/2014	23:36:47					Start Mixing Lead Slurry	
11/07/2014	23:36:47	129	3.4	15.70	70.6		
11/07/2014	23:36:51					End Lead Slurry	
11/07/2014	23:36:51	136	3.5	15.72	70.9		
11/07/2014	23:36:52					Start Mixing Tail Slurry	
11/07/2014	23:36:52	138	3.5	15.73	70.9		
11/07/2014	23:36:53					Pump 83 bbls Of 15.8 ppg Tail	
11/07/2014	23:36:53					397 sks Y=1.16	
11/07/2014	23:36:53	138	3.5	15.73	71.0		
11/07/2014	23:36:54					Wet and Dry Samples	
11/07/2014	23:36:54					Weight 15.8 ppg	
11/07/2014	23:36:54					Dry Sample # 005750	
11/07/2014	23:36:54					Water Sample # 006496	
11/07/2014	23:36:54					Good Returns	
11/07/2014	23:36:54	145	3.5	15.74	71.0		
11/07/2014	23:37:10	145	3.5	15.78	72.0		
11/07/2014	23:38:50	408	6.4	15.91	80.1		
11/07/2014	23:40:30	374	6.4	15.90	90.8		
11/07/2014	23:42:10	385	6.4	16.00	101.5		
11/07/2014	23:43:50	377	6.4	15.97	112.2		
11/07/2014	23:45:30	377	6.4	15.97	122.9		
11/07/2014	23:47:10	358	6.4	15.91	133.6		
11/07/2014	23:48:31					End Tail Slurry	
11/07/2014	23:48:31	7	0.0	15.89	137.4		
11/07/2014	23:48:47					Drop Top Plug	
11/07/2014	23:48:47	7	0.0	15.86	137.4		
11/07/2014	23:48:49					Start Displacement	
11/07/2014	23:48:49	7	0.0	15.86	137.4		
11/07/2014	23:48:50	7	0.0	15.86	137.4		
11/07/2014	23:50:30	5	0.0	15.90	137.4		
11/07/2014	23:52:10	5	0.0	13.24	137.4		
11/07/2014	23:53:50	58	3.8	9.54	138.8		
11/07/2014	23:55:30	48	3.7	8.87	145.2		
11/07/2014	23:57:10	103	5.1	8.61	153.4		
11/07/2014	23:58:50	166	5.2	8.37	162.0		
11/08/2014	00:00:30	235	5.1	8.23	170.4		
11/08/2014	00:02:10	268	5.1	8.34	178.9		
11/08/2014	00:03:50	255	2.5	8.32	187.0		
11/08/2014	00:05:30	274	2.5	8.32	191.2		
11/08/2014	00:07:10	306	2.5	8.32	195.4		
11/08/2014	00:08:41					Displace 56 bbls Of Fresh Water	

Well Windsor LVG #14-H 2054405			Field Wattenberg		Job Start Nov/07/2014	Customer Extraction		Job Number 2054405	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume BBL	Message		
11/08/2014	00:08:47						Bump Top Plug To 1520 psi		
11/08/2014	00:08:47	1495		0.0	8.32	196.5			
11/08/2014	00:08:50	1494		0.0	8.32	196.5			
11/08/2014	00:08:56						Final Circulating psi 310		
11/08/2014	00:08:56						Floats Held		
11/08/2014	00:08:56						.5 bbl Back		
11/08/2014	00:08:56						5 bbls Of Cement To Surface		
11/08/2014	00:08:56						Good Returns Throughout Job		
11/08/2014	00:08:56						Rig Down		
11/08/2014	00:08:56						End Job		
11/08/2014	00:08:56	1494		0.0	8.32	196.5			
11/08/2014	00:10:30	1476		0.0	8.32	196.5			
11/08/2014	00:12:10	-4		0.0	8.32	196.5			
11/08/2014	00:13:50	-3		0.0	8.32	196.5			

Post Job Summary

Average Pump Rates,					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate		Total Slurry 83.0	Mud	Spacer 40.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 3500	Final 310	Average	Bump Plug to 1520	Breakdown	Type		Volume		Density
Avg. N2 Percent		Designed Slurry Volume 83.0 bbl		Displacement 56.0 bbl		Mix Water Temp 60 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>	
						Washed Thru Perfs <input type="checkbox"/>		Volume 5.0 bbl	
								To	
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>	
Torry Schaeffer			Justin Zika			-		-	