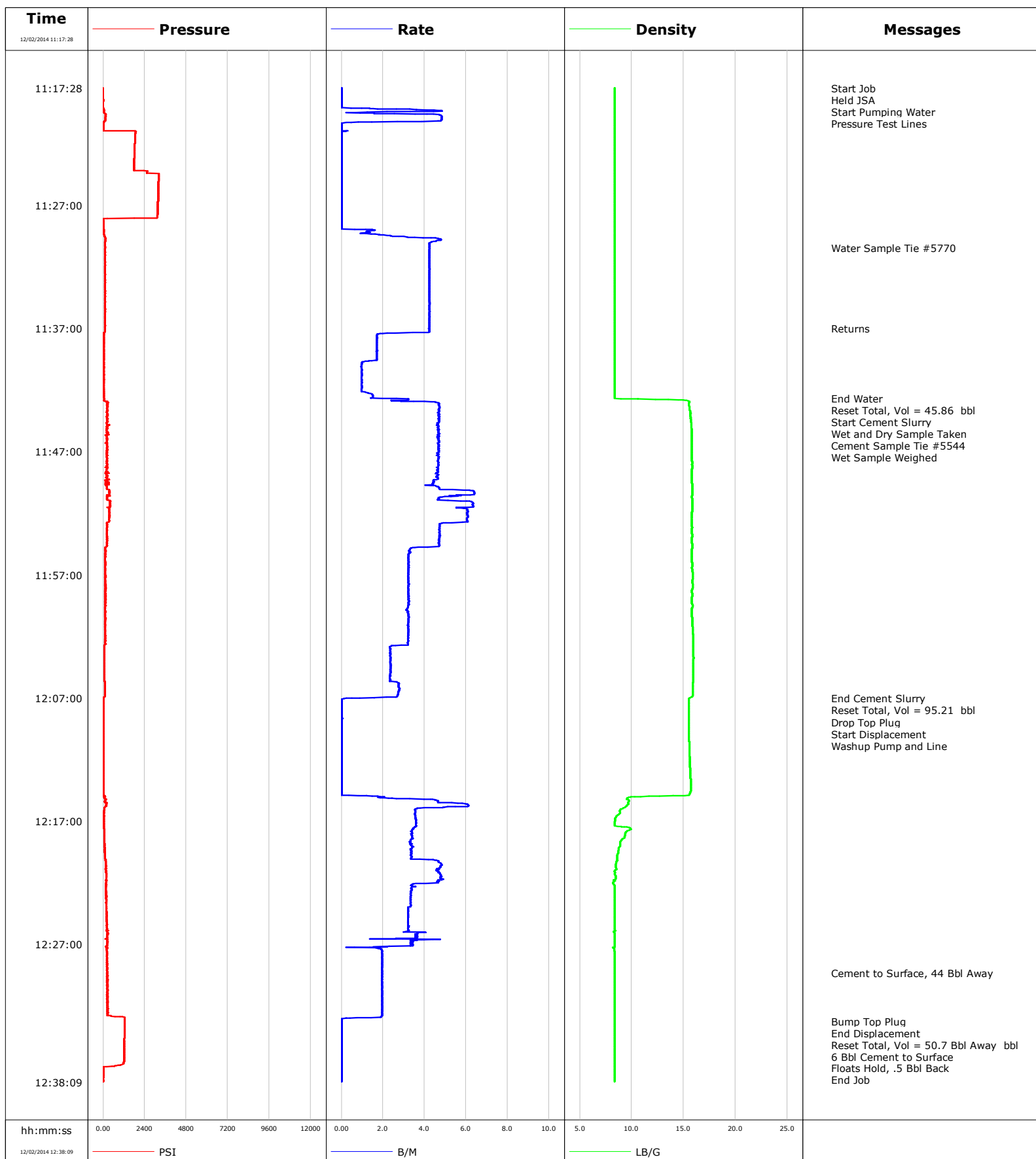


**Well** Windsor LV D-14H  
**Field** Wattenberg  
**Engineer** Ryan Drilling  
**Country** United States

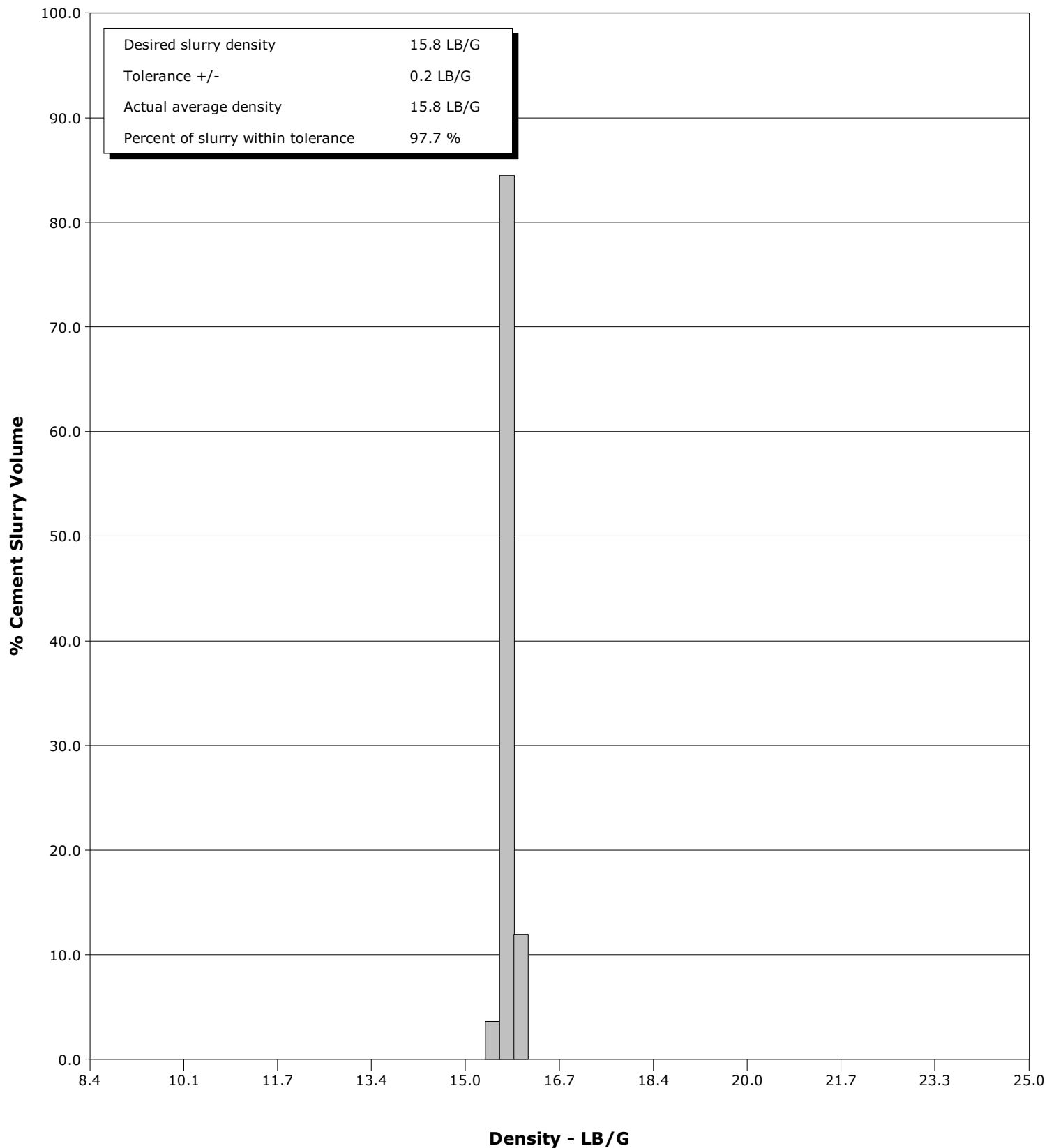
**Client** Extraction  
**SIR No.** D40W-00321  
**Job Type** 9 5/8" Surface  
**Job Date** 12-02-2014



**Well** Windsor LV D-14H  
**Field** Wattenberg  
**Engineer** Ryan Drilling  
**Country** United States

**Client** Extraction  
**SIR No.** D40W-00321  
**Job Type** 9 5/8" Surface  
**Job Date** 12-02-2014

**Cement Slurry - 12/02/2014 11:43:13 to 12/02/2014 12:07:00**



# Cementing Service Report

					Customer Extraction			Job Number D40W-00321	
Well Windsor LV D-14H D-14H			Location (legal) Cheyenne			Schlumberger Location Rock Springs		Job Start Dec/02/2014	
Field Wattenberg		Formation Name/Type			Deviation 0 deg	Bit Size 13.5 in	Well MD 731.0 ft		Well TVD 731.0 ft
County Weld		State/Province Colorado			BHP psi	BHST 88 degF	BHCT 80 degF	Pore Press. Gradient lb/gal	
Well Master 0631501170		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 Development		731.0	9.6	36.0	H40	8RD
	0.0	0.0	0.0						
Drilling Fluid Type Bentonite		Max. Density 9.00 lb/gal	Plastic Viscosity cP		Tubing/Drill Pipe				
	T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread			
Service Line Cementing	Job Type 9 5/8" Surface								
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole				
	Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval ft				
Service Instructions Set 9 5/8" surface casing in a 13.5" hole to 700 feet using Class G cement plus additives	ft	ft							
	ft	ft					Diameter in		
	ft	ft							
	Treat Down Casing		Displacement 50.7 bbl		Packer Type		Packer Depth ft		
	Tubing Vol. bbl		Casing Vol. 50.7 bbl		Annular Vol. bbl		Openhole Vol. 64.0 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 psi				Shoe Type Guide		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 731.0 ft			Tool Type		
No. Centralizers		Top Plugs 1	Bottom Plugs	Stage Tool Type			Tool Depth ft		
Cement Head Type Single				Stage Tool Depth ft			Tail Pipe Size in		
Job Scheduled For Dec/02/2014 01:00		Arrived on Location Dec/02/2014 01:00		Leave Location Dec/02/2014 14:00		Collar Type Float		Tail Pipe Depth ft	
						Collar Depth 687.0 ft		Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message		
12/02/2014	11:17:28	-1	0.0	8.35	0.0	0	Started Acquisition		
12/02/2014	11:17:29	-1	0.0	8.35	0.0	0	Start Job		
12/02/2014	11:17:31	-0	0.0	8.35	0.0	0	Held JSA		
12/02/2014	11:17:38	-1	0.0	8.35	0.0	0	Start Pumping Water		
12/02/2014	11:17:41	-1	0.0	8.35	0.0	0	Pressure Test Lines		
12/02/2014	11:18:28	5	0.0	8.35	0.0	0			
12/02/2014	11:19:28	39	1.2	8.35	1.1	0			
12/02/2014	11:20:28	24	0.0	8.35	4.3	0			
12/02/2014	11:21:28	1846	0.0	8.35	4.3	0			
12/02/2014	11:22:28	1817	0.0	8.35	4.3	0			
12/02/2014	11:23:28	1794	0.0	8.34	4.3	0			
12/02/2014	11:24:28	3224	0.0	8.35	4.3	0			
12/02/2014	11:25:28	3194	0.0	8.35	4.3	0			
12/02/2014	11:26:28	3176	0.0	8.35	4.3	0			
12/02/2014	11:27:28	3159	0.0	8.35	4.3	0			
12/02/2014	11:28:28	13	0.0	8.35	4.3	0			
12/02/2014	11:29:28	64	2.3	8.35	5.0	0			
12/02/2014	11:30:28	119	4.2	8.35	9.1	0	Water Sample Tie #5770		
12/02/2014	11:31:28	103	4.2	8.34	13.3	0			
12/02/2014	11:32:28	104	4.2	8.34	17.6	0			
12/02/2014	11:33:28	111	4.2	8.34	21.8	0			

Well Windsor LV D-14H D-14H			Field Wattenberg		Job Start Dec/02/2014	Customer Extraction		Job Number D40W-00321
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message	
12/02/2014	11:35:28	96	4.2	8.34	30.3	0		
12/02/2014	11:36:28	105	4.2	8.34	34.5	0		
12/02/2014	11:37:01	106	4.2	8.34	36.8	0	Returns	
12/02/2014	11:37:28	51	1.8	8.34	38.5	0		
12/02/2014	11:38:28	38	1.7	8.34	40.3	0		
12/02/2014	11:39:28	32	1.7	8.34	42.0	0		
12/02/2014	11:40:28	55	1.0	8.34	43.1	0		
12/02/2014	11:41:28	41	1.0	8.34	44.1	0		
12/02/2014	11:42:28	45	1.5	8.34	45.2	0		
12/02/2014	11:42:40	76	1.4	8.34	45.5	0	End Water	
12/02/2014	11:42:48	79	3.2	14.49	45.8	23	Reset Total, Vol = 45.86 bbl	
12/02/2014	11:43:13	237	4.7	15.52	47.5	26	Start Cement Slurry	
12/02/2014	11:43:28	252	4.7	15.53	48.6	27		
12/02/2014	11:44:26	254	4.7	15.68	53.2	32	Wet and Dry Sample Taken	
12/02/2014	11:44:27	246	4.7	15.69	53.3	32	Wet Sample Weighed	
12/02/2014	11:44:28	235	4.7	15.69	53.3	32		
12/02/2014	11:45:28	190	4.7	15.79	58.0	34		
12/02/2014	11:46:28	218	4.7	15.78	62.7	35		
12/02/2014	11:47:28	250	4.7	15.80	67.4	36		
12/02/2014	11:48:28	219	4.6	15.81	72.0	37		
12/02/2014	11:49:28	371	4.4	15.81	76.6	39		
12/02/2014	11:50:28	393	6.4	15.81	81.8	39		
12/02/2014	11:51:28	428	6.4	15.82	87.4	40		
12/02/2014	11:53:28	215	4.7	15.78	98.6	40		
12/02/2014	11:54:28	225	4.7	15.81	103.4	41		
12/02/2014	11:55:28	130	3.2	15.77	107.1	41		
12/02/2014	11:56:28	157	3.2	15.81	110.3	42		
12/02/2014	11:57:28	127	3.2	15.85	113.5	42		
12/02/2014	11:58:28	141	3.2	15.81	116.8	42		
12/02/2014	11:59:28	99	3.2	15.87	120.0	42		
12/02/2014	12:00:28	97	3.2	15.81	123.2	42		
12/02/2014	12:01:28	157	3.2	15.87	126.4	42		
12/02/2014	12:02:28	90	3.2	15.92	129.6	42		
12/02/2014	12:03:28	71	2.3	15.92	132.2	50		
12/02/2014	12:04:28	71	2.4	15.95	134.6	60		
12/02/2014	12:05:28	71	2.3	15.93	136.9	62		
12/02/2014	12:06:28	91	2.7	15.90	139.6	58		
12/02/2014	12:07:00	12	0.9	15.59	141.0	0	End Cement Slurry	
12/02/2014	12:07:17	11	0.0	15.50	141.1	0	Reset Total, Vol = 95.21 bbl	
12/02/2014	12:07:21	11	0.0	15.50	141.1	0	Drop Top Plug	
12/02/2014	12:07:22	11	0.0	15.50	141.1	0	Start Displacement	
12/02/2014	12:07:23	11	0.0	15.50	141.1	0	Washup Pump and Line	
12/02/2014	12:07:28	10	0.0	15.50	141.1	0		
12/02/2014	12:08:28	8	0.0	15.49	141.1	0		
12/02/2014	12:09:28	7	0.0	15.50	141.1	0		
12/02/2014	12:10:28	7	0.0	15.52	141.1	0		
12/02/2014	12:11:28	7	0.0	15.56	141.1	0		
12/02/2014	12:12:28	6	0.0	15.61	141.1	0		
12/02/2014	12:13:28	7	0.0	15.66	141.1	0		
12/02/2014	12:14:28	7	0.0	15.71	141.1	0		
12/02/2014	12:15:28	133	4.7	9.66	142.8	68		
12/02/2014	12:16:28	61	3.5	8.75	147.3	68		
12/02/2014	12:17:28	50	3.5	9.31	150.9	36		
12/02/2014	12:18:28	76	3.4	9.08	154.3	15		

Well Windsor LV D-14H D-14H			Field Wattenberg		Job Start Dec/02/2014	Customer Extraction	Job Number D40W-00321
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message
12/02/2014	12:20:28	158	4.8	8.47	161.5	0	
12/02/2014	12:21:28	203	4.8	8.46	166.2	20	
12/02/2014	12:22:28	164	3.4	8.35	170.4	13	
12/02/2014	12:23:28	176	3.3	8.36	173.8	44	
12/02/2014	12:24:28	211	3.2	8.35	177.0	33	
12/02/2014	12:25:28	227	3.2	8.35	180.3	0	
12/02/2014	12:26:28	249	3.5	8.37	183.7	0	
12/02/2014	12:27:28	227	1.9	8.31	186.5	0	
12/02/2014	12:28:28	213	2.0	8.35	188.5	0	
12/02/2014	12:29:19	259	2.0	8.35	190.2	0	Cement to Surface, 44 Bbl Away
12/02/2014	12:29:28	245	1.9	8.35	190.4	0	
12/02/2014	12:30:28	274	2.0	8.35	192.4	0	
12/02/2014	12:31:28	258	2.0	8.35	194.4	0	
12/02/2014	12:32:28	280	2.0	8.35	196.3	0	
12/02/2014	12:33:14	1239	0.0	8.35	197.3	0	Bump Top Plug
12/02/2014	12:33:15	1239	0.0	8.35	197.3	0	End Displacement
12/02/2014	12:33:28	1237	0.0	8.35	197.3	0	
12/02/2014	12:33:46	1234	0.0	8.35	197.3	0	Reset Total, Vol = 50.7 Bbl Away bbl
12/02/2014	12:34:08	1232	0.0	8.35	197.3	0	6 Bbl Cement to Surface
12/02/2014	12:34:28	1230	0.0	8.35	197.3	0	
12/02/2014	12:35:28	1225	0.0	8.35	197.3	0	
12/02/2014	12:36:28	1218	0.0	8.35	197.3	0	
12/02/2014	12:37:01	2	0.0	8.35	197.3	0	Floats Hold, .5 Bbl Back
12/02/2014	12:37:28	1	0.0	8.35	197.3	0	

## Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 3.4	N2	Mud	Maximum Rate 6.4	Total Slurry 95.2	Mud 0.0	Spacer 0.0	N2				
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 3225	Final 0	Average 402	Bump Plug to 1260	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %		Designed Slurry Volume 93.0 bbl		Displacement 50.7 bbl		Mix Water Temp 70 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 6.0 bbl		
								Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Sean McIntyre			Schlumberger Supervisor Ryan Drilling			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>			
						-		-			