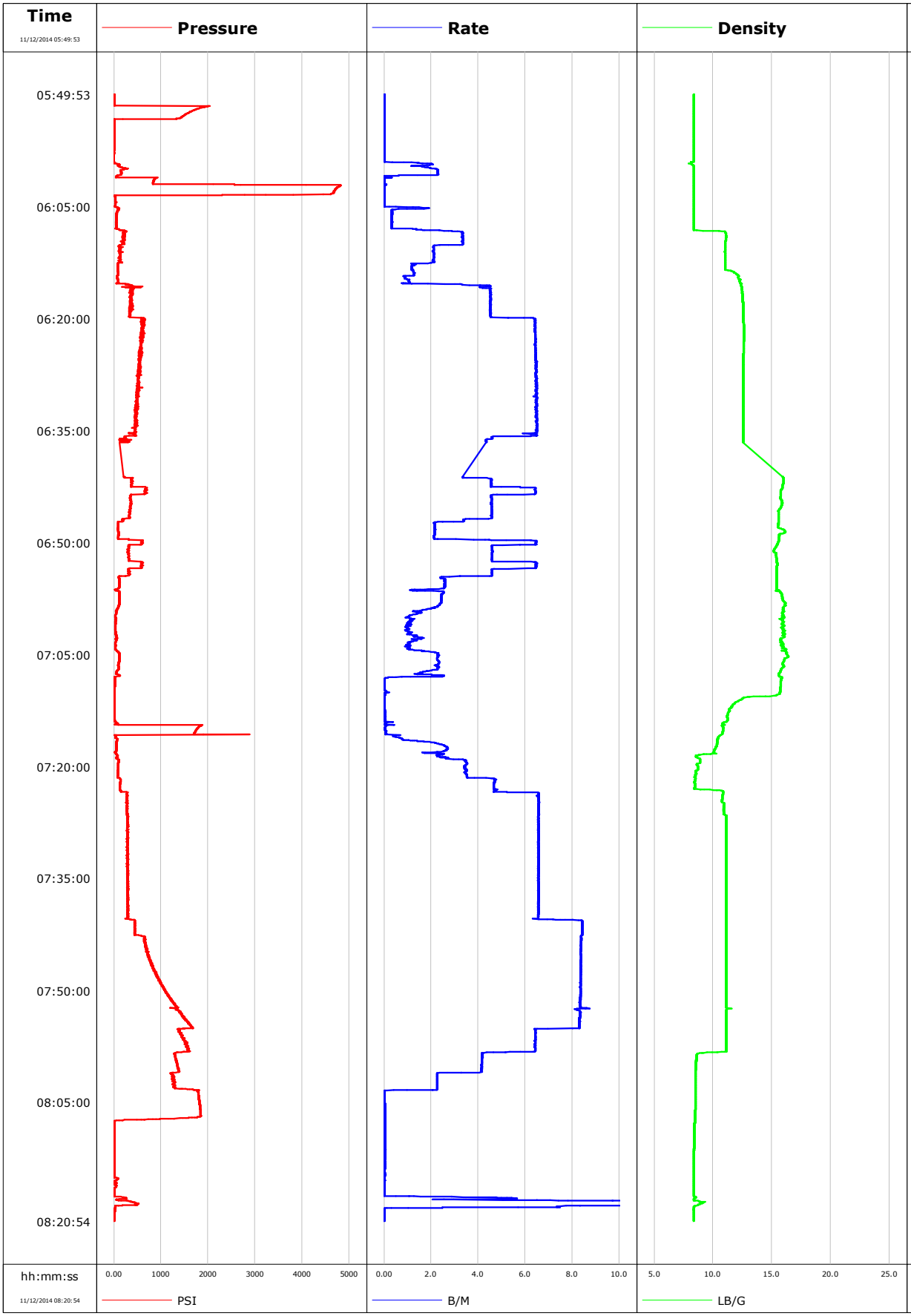
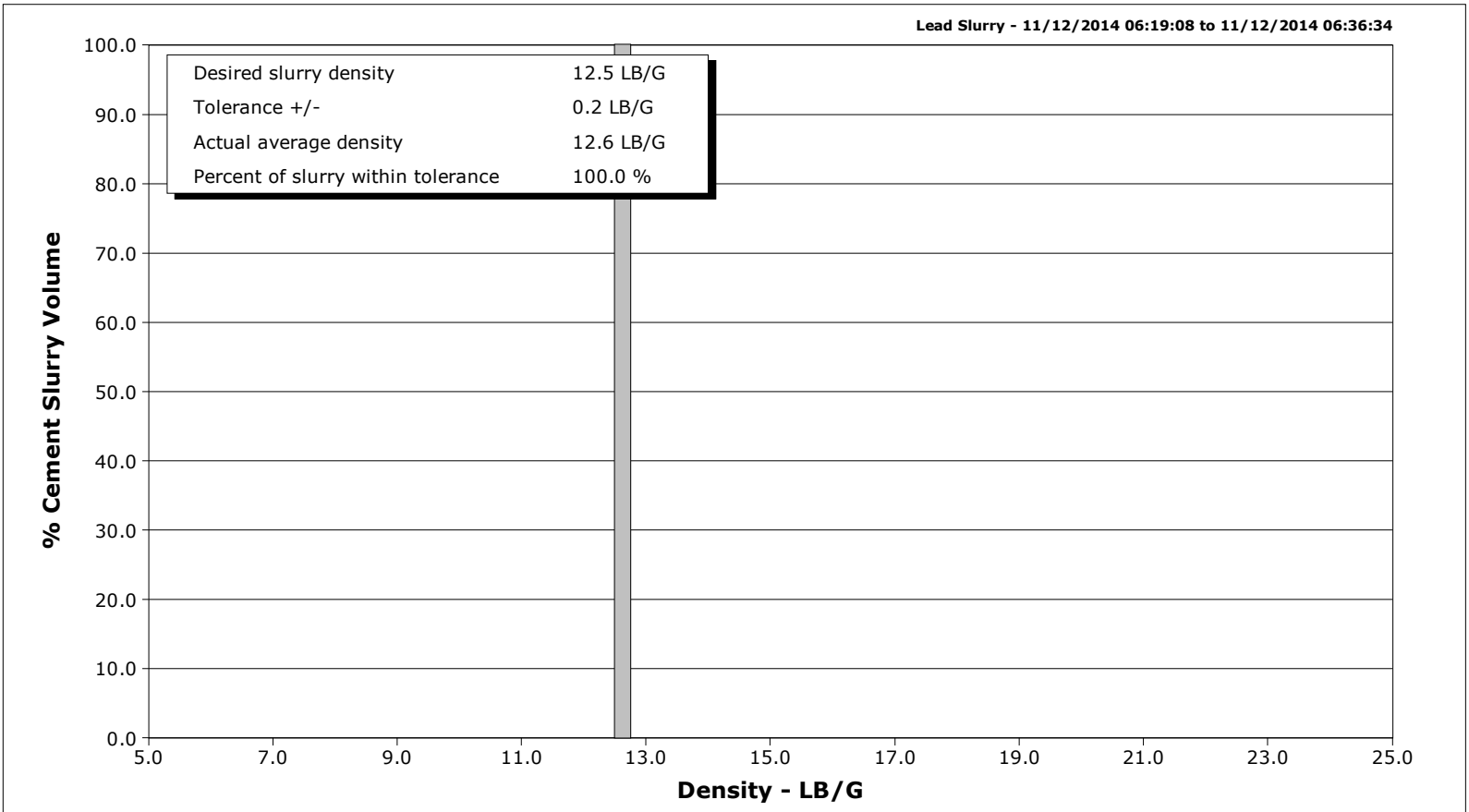
Schlumberger Cementing Job Report

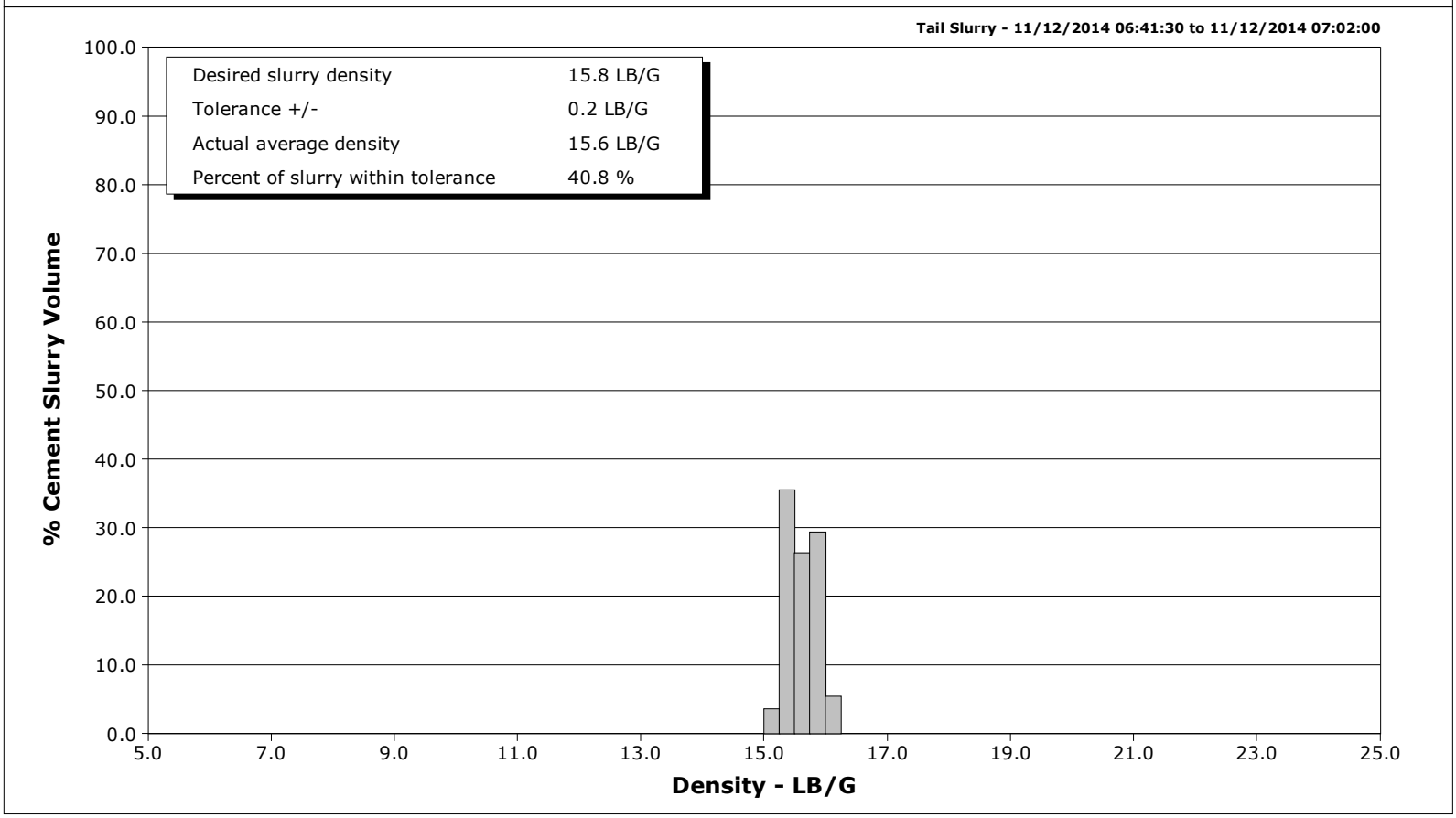
Well	Windsor LVG 14-H	**Client**	Extraction
Field	Wattenburge	**SIR No.**	CWJN-00545
Engineer	Jordan Moreland / Stacy Terry	**Job Type**	7" Intermediate
Country	United States	**Job Date**	11-12-2014



Schlumberger Cementing Qa/Qc Density Report

Well	Windsor LVG 14-H	**Client**	Extraction
Field	Wattenburge	**SIR No.**	CWJN-00545
Engineer	Jordan Moreland / Stacy Terry	**Job Type**	7" Intermediate
Country	United States	**Job Date**	11-12-2014





Cementing Service Report

Customer	Job Number
Extraction	CWJN-00545

Well	Location (legal)	Schlumberger Location	Job Start
Windsor LVG 14-H		CWY	Nov/12/2014

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Wattenburge			8.8 in		

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado		208 degF	173 degF	

Well Master	API/UWI
0631602159	

Rig Name	Drilled For	Service Via
H&P 319	Oil	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity

Service Line	Job Type
Cementing	7" Intermediate

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
		Single Cement head

Service Instructions

Rate And Density Checked
20 bbl MUDPUSH Express
487 sks 12.5 Lead
421 sks 15.8 Tail
Displace 283 bbl MUD

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
7437.0	7.000	26.0	K55	8RD
0.0	0.000	0.0		

Tubing/Drill Pipe

Depth,	Size,	Weight,	Grade	Thread

Perforations/Open Hole

Top,	Bottom,		No. of Shots	Total Interval
				Diameter

Treat Down	Displacement	Packer Type	Packer Depth
Casing	283.0 bbl		

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
	285.0 bbl	201.0 bbl	542.0 bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement
X	X

Lift Pressure		
Pipe Rotated	☐	Pipe Reciprocated ☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type	
Single	

Job Scheduled For	Arrived on Location	Leave Location
Nov/12/2014	Nov/12/2014	Nov/12/2014

Casing Tools		Squeeze Job	
Shoe Type	Float	Squeeze Type	
Shoe Depth	7437.0 ft	Tool Type	
Stage Tool Type		Tool Depth	
Stage Tool Depth		Tail Pipe Size	
Collar Type	Float	Tail Pipe Depth	
Collar Depth	7391.0 ft	Sqz. Total Vol.	

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
11/12/2014	04:07:31					Started Acquisition
11/12/2014	05:49:53	10	0.0	8.35	0.0	
11/12/2014	05:49:55					20 bbl MUDPUSH Express
11/12/2014	05:49:55					487 sks 12.5 Lead
11/12/2014	05:49:55					421 15.8 Tail
11/12/2014	05:49:55					Displace 283 bbl Mud
11/12/2014	05:49:55					Rig Up Per Standard
11/12/2014	05:49:55	10	0.0	8.35	0.0	
11/12/2014	05:49:56					Held Safety Meeting
11/12/2014	05:49:56	9	0.0	8.35	0.0	
11/12/2014	05:49:57					Start Job
11/12/2014	05:49:57	10	0.0	8.35	0.0	
11/12/2014	05:50:00					Pressure Test Lines
11/12/2014	05:50:00					Low Test 500 psi
11/12/2014	05:50:00					Test Good
11/12/2014	05:50:00					High Test 4500 psi
11/12/2014	05:50:00	11	0.0	8.35	0.0	
11/12/2014	05:50:02					Test Good
11/12/2014	05:50:02	10	0.0	8.35	0.0	
11/12/2014	05:51:31	2012	0.0	8.35	0.0	
11/12/2014	05:53:31	7	0.0	8.35	0.0	

Well	Field	Job Start	Customer	Job Number
Windsor LVG 14-H	Wattenburge	Nov/12/2014	Extraction	CWJN-00545

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
11/12/2014	05:57:31	0	0.0	8.35	0.1	
11/12/2014	05:59:31	96	1.2	8.35	1.0	
11/12/2014	06:01:31	840	0.0	8.35	3.7	
11/12/2014	06:03:31	18	0.0	8.35	3.7	
11/12/2014	06:05:31	72	0.3	8.36	4.2	
11/12/2014	06:07:31	51	0.3	8.35	4.9	
11/12/2014	06:08:54					Start Pumping Spacer
11/12/2014	06:08:54	232	3.3	11.10	7.8	
11/12/2014	06:08:56					20 bbl MUDPUSH Express
11/12/2014	06:08:56					Good Returns
11/12/2014	06:08:56	223	3.3	11.10	7.9	
11/12/2014	06:09:31	217	3.4	11.05	9.8	
11/12/2014	06:11:31	132	2.1	11.03	14.8	
11/12/2014	06:13:31	83	1.2	11.30	18.1	
11/12/2014	06:15:31	374	4.4	12.37	20.8	
11/12/2014	06:17:31	384	4.5	12.52	29.7	
11/12/2014	06:19:05					End Spacer
11/12/2014	06:19:05	329	4.5	12.55	36.8	
11/12/2014	06:19:07					Start Cement Slurry
11/12/2014	06:19:07	346	4.5	12.55	36.9	
11/12/2014	06:19:08					Start Mixing Lead Slurry
11/12/2014	06:19:08					Wet Dry Samples
11/12/2014	06:19:08	368	4.5	12.55	37.0	
11/12/2014	06:19:09					Test = 12.5 ppg
11/12/2014	06:19:09					Good Returns
11/12/2014	06:19:09					137 bbl 12.5 Lead
11/12/2014	06:19:09	334	4.5	12.55	37.1	
11/12/2014	06:19:31	345	4.5	12.56	38.7	
11/12/2014	06:21:31	592	6.4	12.65	50.9	
11/12/2014	06:23:31	564	6.4	12.61	63.8	
11/12/2014	06:25:31	547	6.4	12.56	76.6	
11/12/2014	06:27:31	503	6.5	12.53	89.5	
11/12/2014	06:29:31	488	6.5	12.54	102.5	
11/12/2014	06:31:31	464	6.5	12.55	115.4	
11/12/2014	06:33:31	487	6.5	12.55	128.4	
11/12/2014	06:35:31	448	6.5	12.55	141.3	
11/12/2014	06:36:34					End Lead Slurry
11/12/2014	06:36:34	129	4.3	12.54	146.4	
11/12/2014	06:41:30					Start Mixing Tail Slurry
11/12/2014	06:41:30	369	4.6	15.99	147.8	
11/12/2014	06:41:31	381	4.6	15.99	147.9	
11/12/2014	06:41:41					Wet Dry Samples
11/12/2014	06:41:41					Test = 15.8 ppg
11/12/2014	06:41:41	397	4.6	16.00	148.6	
11/12/2014	06:41:42					Good Returns
11/12/2014	06:41:42					87 bbl 15.8 Tail
11/12/2014	06:41:42	382	4.6	16.00	148.7	
11/12/2014	06:43:31	649	6.4	15.75	158.8	
11/12/2014	06:45:31	336	4.6	15.64	168.0	
11/12/2014	06:47:31	89	2.2	15.53	175.8	
11/12/2014	06:49:31	121	2.3	15.61	180.1	
11/12/2014	06:51:31	311	4.6	15.34	190.4	
11/12/2014	06:53:31	308	4.7	15.40	201.3	
11/12/2014	06:55:31	110	2.6	15.41	208.4	

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Windsor LVG 14-H	Wattenburge	Nov/12/2014	Extraction	CWJN-00545

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
11/12/2014	06:59:31	50	1.4	15.93	217.3	
11/12/2014	07:01:31	33	1.0	15.90	219.4	
11/12/2014	07:02:00					End Tail Slurry
11/12/2014	07:02:00	39	1.2	16.03	219.9	
11/12/2014	07:03:00					End Cement Slurry
11/12/2014	07:03:00	51	1.4	15.76	221.2	
11/12/2014	07:03:31	33	1.0	15.86	221.9	
11/12/2014	07:05:31	111	2.3	16.07	225.2	
11/12/2014	07:07:31	50	1.5	15.56	229.5	
11/12/2014	07:09:31	10	0.0	15.71	230.4	
11/12/2014	07:11:31	10	0.0	11.82	230.5	
11/12/2014	07:13:31	10	0.0	11.20	230.5	
11/12/2014	07:15:31	1710	0.1	10.77	230.7	
11/12/2014	07:17:31	55	2.7	10.20	233.5	
11/12/2014	07:19:12					Drop Top Plug
11/12/2014	07:19:12					Start Displacement
11/12/2014	07:19:12	101	3.4	8.87	237.8	
11/12/2014	07:19:14					283 bbl Mud
11/12/2014	07:19:14					Good Returns
11/12/2014	07:19:14	101	3.5	8.88	237.9	
11/12/2014	07:19:31	94	3.5	8.87	238.9	
11/12/2014	07:21:31	126	4.3	8.49	245.9	
11/12/2014	07:23:31	285	6.5	10.86	255.4	
11/12/2014	07:25:31	285	6.6	10.91	268.6	
11/12/2014	07:27:31	290	6.5	11.12	281.7	
11/12/2014	07:29:31	290	6.6	11.11	294.8	
11/12/2014	07:31:31	291	6.5	11.13	307.9	
11/12/2014	07:33:31	278	6.5	11.14	321.0	
11/12/2014	07:35:31	287	6.6	11.13	334.1	
11/12/2014	07:37:31	304	6.5	11.13	347.2	
11/12/2014	07:39:31	284	6.5	11.13	360.3	
11/12/2014	07:41:31	438	8.4	11.13	375.2	
11/12/2014	07:43:31	668	8.4	11.13	392.0	
11/12/2014	07:45:31	748	8.4	11.13	408.8	
11/12/2014	07:47:31	866	8.4	11.13	425.5	
11/12/2014	07:49:31	1050	8.3	11.13	442.2	
11/12/2014	07:51:31	1261	8.3	11.12	458.8	
11/12/2014	07:53:31	1477	8.3	11.12	475.5	
11/12/2014	07:55:31	1372	6.4	11.11	491.3	
11/12/2014	07:57:31	1534	6.4	11.11	504.1	
11/12/2014	07:59:31	1332	4.2	8.57	514.1	
11/12/2014	08:01:31	1274	2.3	8.50	521.5	
11/12/2014	08:03:31	1780	0.0	8.49	525.6	
11/12/2014	08:05:31	1825	0.0	8.49	525.6	
11/12/2014	08:07:31	7	0.0	8.43	525.7	
11/12/2014	08:09:31	7	0.0	8.40	525.7	
11/12/2014	08:11:31	5	0.0	8.37	525.8	
11/12/2014	08:13:31	5	0.0	8.35	525.9	
11/12/2014	08:15:31	14	0.0	8.35	525.9	
11/12/2014	08:17:31	3	0.0	8.34	525.9	
11/12/2014	08:19:31	13	0.0	8.34	540.2	
11/12/2014	08:20:34					End Displacement
11/12/2014	08:20:34	9	0.0	8.33	540.2	
11/12/2014	08:20:35					Bump Top Plug

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Windsor LVG 14-H	Wattenburge	Nov/12/2014	Extraction	CWJN-00545

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
11/12/2014	08:20:35					1 1/2 bbl Back
11/12/2014	08:20:35					15 bbl Cement To Surface
11/12/2014	08:20:35					Rig Down
11/12/2014	08:20:35	9	0.0	8.34	540.2	
11/12/2014	08:20:44					End Job
11/12/2014	08:20:44	8	0.0	8.34	540.2	

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?	Volume
			66 degF	X	
				Washed Thru Perfs ☐	To

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
	Jordan Moreland / Stacy Terry	☐	X
		-	-