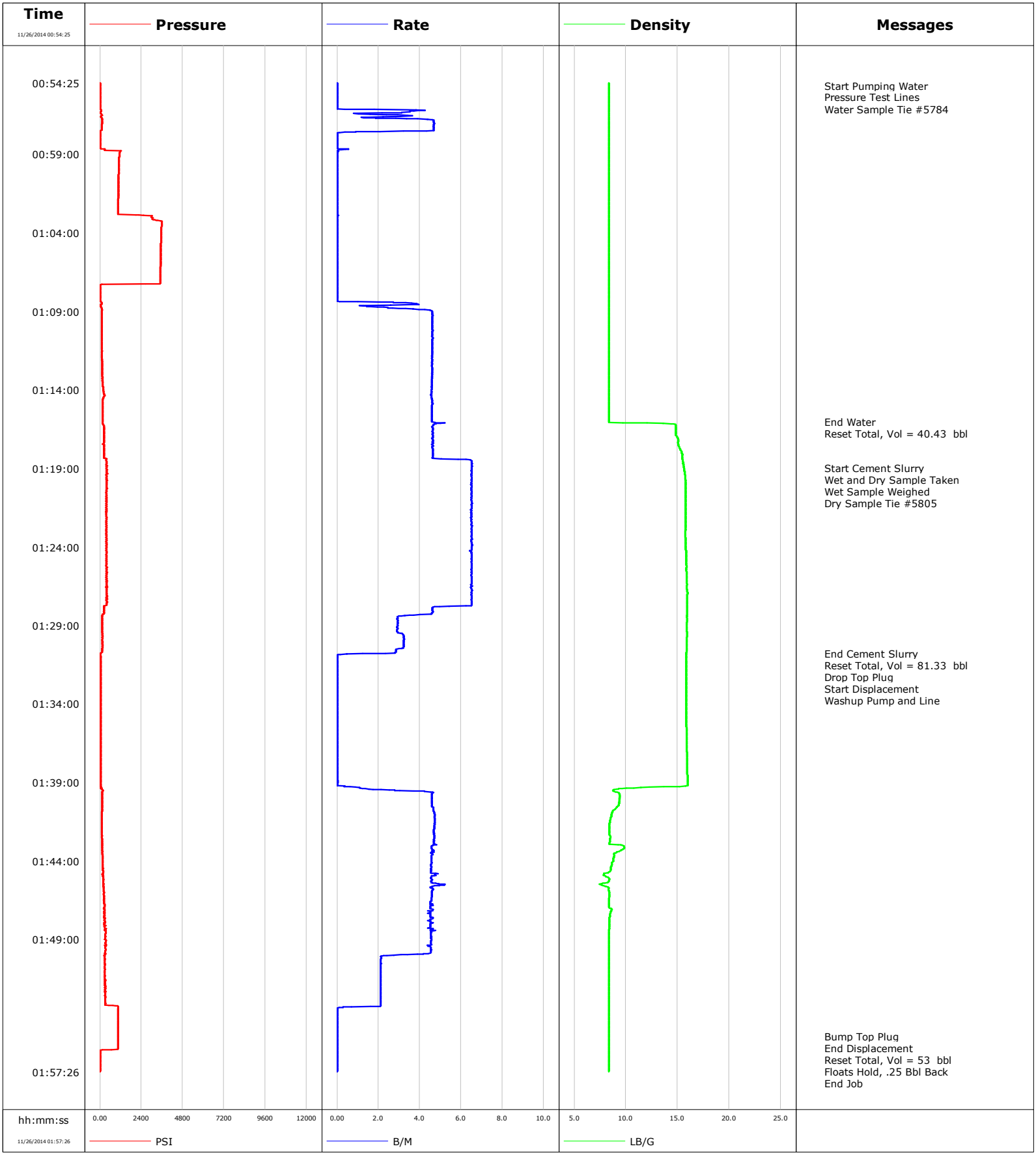
Schlumberger

Cementing Job Report

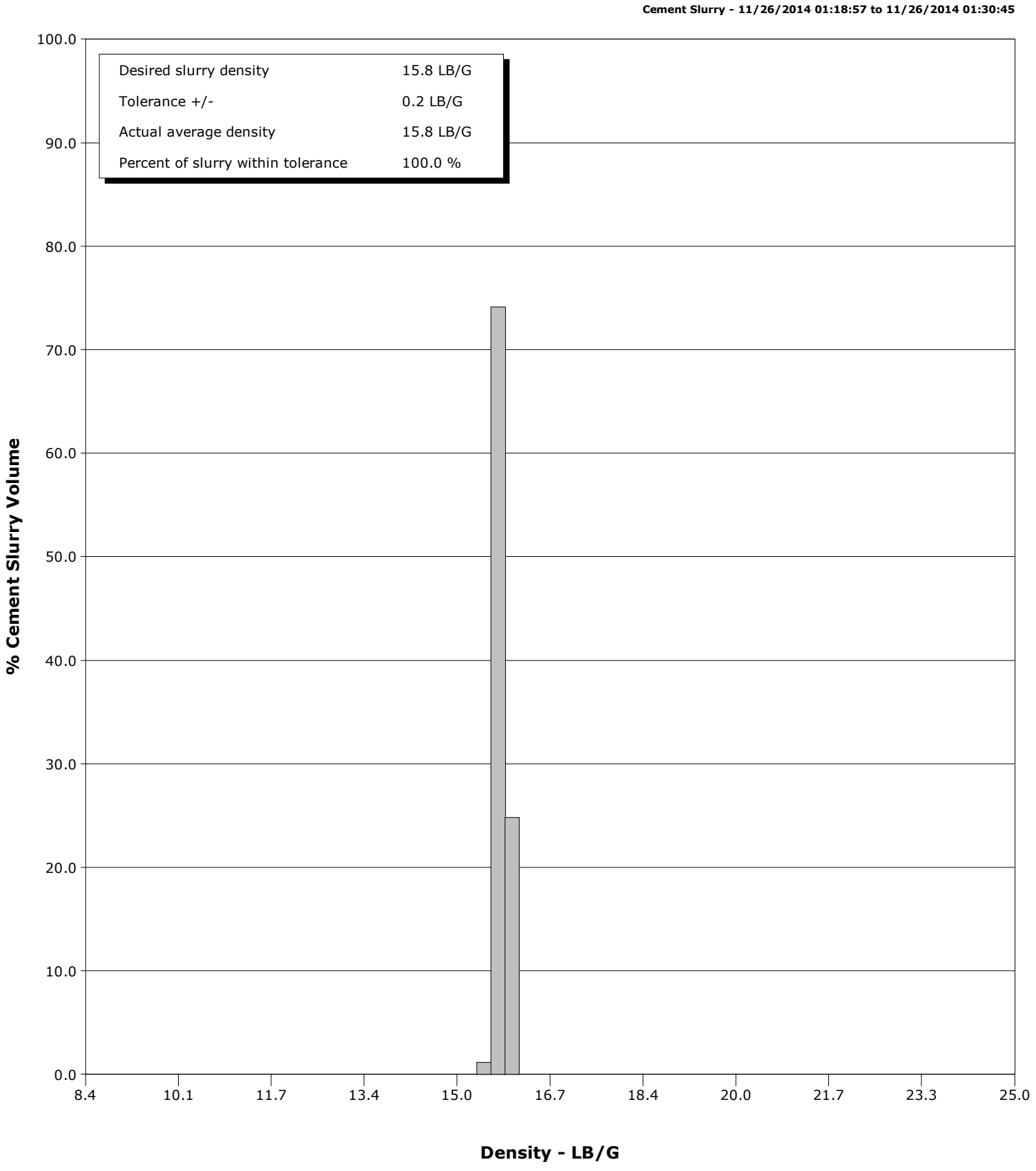
Well	Windsor LV E-14H	**Client**	Extraction
Field	Wattenberg	**SIR No.**	D40W-00302
Engineer	Ryan Drilling	**Job Type**	9 5/8" Surface
Country	United States	**Job Date**	11-25-2014



Schlumberger

Cementing Qa/Qc Density Report

Well	Windsor LV E-14H	**Client**	Extraction
Field	Wattenberg	**SIR No.**	D40W-00302
Engineer	Ryan Drilling	**Job Type**	9 5/8" Surface
Country	United States	**Job Date**	11-25-2014



Schlumberger

Cementing Service Report

Customer	Job Number
Extraction	D40W-00302

Well	Location (legal)	Schlumberger Location	Job Start
Windsor LV E-14H E-14H	Cheyenne	Cheyenne	Nov/25/2014

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Wattenberg		0 deg	13.5 in	731.0 ft	731.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado	psi	88 degF	80 degF	lb/gal

Well Master	API/UWI
0631501176	

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
Bentonite	9.00 lb/gal	cP

Service Line	Job Type
Cementing	9 5/8" Surface

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

Service Instructions

Set 9 5/8" surface casing in a 13.5" hole to
700 feet using Class G cement plus additives

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
729.3	9.6	36.0	J55	8RD
0.0	0.0	0.0		

Tubing/Drill Pipe

T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread

Perforations/Open Hole

Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
ft	ft			ft
ft	ft			Diameter
ft	ft			in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	53.1 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	53.1 bbl	bbl	63.0 bbl

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

Lift Pressure		Pipe Rotated		Pipe Reciprocated	
psi			☐		☐

No. Centralizers	Top Plugs	Bottom Plugs
9	1	

Cement Head Type
Single

Job Scheduled For	Arrived on Location	Leave Location
Nov/25/2014 17:00	Nov/25/2014 17:15	Nov/26/2014 03:00

Casing Tools

Shoe Type	Guide
Shoe Depth	729.3 ft
Stage Tool Type	
Stage Tool Depth	ft
Collar Type	Float
Collar Depth	687.0 ft

Squeeze Job

Squeeze Type	
Tool Type	
Tool Depth	ft
Tail Pipe Size	in
Tail Pipe Depth	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
11/26/2014	00:54:25	5	0.0	8.36	8.5	0	Started Acquisition
11/26/2014	00:54:35	5	0.0	8.36	8.5	0	Start Pumping Water
11/26/2014	00:54:40	6	0.0	8.36	8.5	0	Pressure Test Lines
11/26/2014	00:55:18	3	0.0	8.36	0.0	0	Water Sample Tie #5784
11/26/2014	00:55:25	3	0.0	8.36	0.0	0	
11/26/2014	00:56:25	80	1.0	8.36	0.9	0	
11/26/2014	00:57:25	102	4.7	8.36	4.8	0	
11/26/2014	00:58:25	18	0.0	8.36	5.4	0	
11/26/2014	00:59:25	1104	0.0	8.36	5.4	0	
11/26/2014	01:00:25	1083	0.0	8.36	5.4	0	
11/26/2014	01:01:25	1064	0.0	8.36	5.4	0	
11/26/2014	01:02:25	1047	0.0	8.36	5.4	0	
11/26/2014	01:03:25	3581	0.0	8.36	5.4	0	
11/26/2014	01:04:25	3548	0.0	8.36	5.4	0	
11/26/2014	01:05:25	3527	0.0	8.36	5.4	0	
11/26/2014	01:06:25	3510	0.0	8.36	5.5	0	
11/26/2014	01:07:25	7	0.0	8.36	5.5	0	
11/26/2014	01:08:25	86	2.7	8.36	5.5	0	
11/26/2014	01:09:25	108	4.6	8.36	9.3	0	
11/26/2014	01:10:25	100	4.6	8.36	13.9	0	
11/26/2014	01:11:25	110	4.6	8.36	18.5	0	

Well	Field	Job Start	Customer	Job Number
Windsor LV E-14H E-14H	Wattenberg	Nov/25/2014	Extraction	D40W-00302

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message
11/26/2014	01:13:25	143	4.6	8.36	27.7	0	
11/26/2014	01:14:25	233	4.6	8.36	32.3	0	
11/26/2014	01:15:25	157	4.6	8.36	36.9	0	
11/26/2014	01:16:00	150	4.6	8.36	39.6	0	End Water
11/26/2014	01:16:11	175	4.7	14.77	40.4	36	Reset Total, Vol = 40.43 bbl
11/26/2014	01:16:25	240	4.6	14.83	41.5	36	
11/26/2014	01:17:25	234	4.6	15.06	46.2	37	
11/26/2014	01:18:25	385	5.9	15.47	50.8	40	
11/26/2014	01:18:57	421	6.5	15.61	54.3	41	Start Cement Slurry
11/26/2014	01:19:00	366	6.5	15.65	54.6	42	Wet and Dry Sample Taken
11/26/2014	01:19:19	431	6.5	15.69	56.7	42	Dry Sample Tie #5805
11/26/2014	01:19:25	367	6.5	15.74	57.3	42	
11/26/2014	01:20:25	381	6.5	15.79	63.8	43	
11/26/2014	01:21:25	386	6.5	15.79	70.3	42	
11/26/2014	01:22:25	357	6.5	15.78	76.8	42	
11/26/2014	01:23:25	359	6.5	15.77	83.3	42	
11/26/2014	01:24:25	383	6.5	15.82	89.8	42	
11/26/2014	01:25:25	376	6.5	15.85	96.4	42	
11/26/2014	01:26:25	412	6.5	15.91	102.9	42	
11/26/2014	01:27:25	380	6.5	15.93	109.4	42	
11/26/2014	01:28:25	128	3.0	15.91	114.5	42	
11/26/2014	01:29:25	128	2.9	15.91	117.5	36	
11/26/2014	01:30:25	159	3.2	15.89	120.7	62	
11/26/2014	01:30:45	47	2.8	15.84	121.6	72	End Cement Slurry
11/26/2014	01:30:52	25	0.1	15.85	121.8	0	Reset Total, Vol = 81.33 bbl
11/26/2014	01:30:54	36	0.0	15.85	121.8	0	Drop Top Plug
11/26/2014	01:30:59	54	0.0	15.85	121.8	0	Start Displacement
11/26/2014	01:31:00	54	0.0	15.85	121.8	0	Washup Pump and Line
11/26/2014	01:31:25	46	0.0	15.83	121.8	0	
11/26/2014	01:32:25	44	0.0	15.82	121.8	0	
11/26/2014	01:33:25	44	0.0	15.83	121.8	0	
11/26/2014	01:34:25	43	0.0	15.84	121.8	0	
11/26/2014	01:35:25	43	0.0	15.86	121.8	0	
11/26/2014	01:36:25	44	0.0	15.89	121.8	0	
11/26/2014	01:37:25	44	0.0	15.92	121.8	0	
11/26/2014	01:38:25	44	0.0	15.95	121.8	0	
11/26/2014	01:39:25	102	1.5	9.31	122.0	72	
11/26/2014	01:40:25	129	4.6	9.33	126.3	72	
11/26/2014	01:41:25	107	4.7	8.47	131.0	72	
11/26/2014	01:42:25	115	4.7	8.49	135.7	72	
11/26/2014	01:43:25	143	4.7	9.16	140.3	16	
11/26/2014	01:44:25	164	4.6	8.56	144.9	19	
11/26/2014	01:45:25	199	4.6	7.97	149.5	0	
11/26/2014	01:46:25	230	4.6	8.35	154.1	72	
11/26/2014	01:47:25	285	4.5	8.46	158.7	0	
11/26/2014	01:48:25	318	4.6	8.36	163.2	0	
11/26/2014	01:49:25	361	4.4	8.36	167.8	0	
11/26/2014	01:50:25	298	2.1	8.36	171.2	0	
11/26/2014	01:51:25	283	2.1	8.36	173.3	0	
11/26/2014	01:52:25	317	2.1	8.36	175.5	0	
11/26/2014	01:53:25	1052	0.0	8.36	177.3	0	
11/26/2014	01:54:25	1039	0.0	8.36	177.3	0	
11/26/2014	01:55:09	1035	0.0	8.36	177.3	0	Bump Top Plug
11/26/2014	01:55:20	1034	0.0	8.36	177.3	0	Reset Total, Vol = 53 bbl

Well	Field	Job Start	Customer	Job Number
Windsor LV E-14H E-14H	Wattenberg	Nov/25/2014	Extraction	D40W-00302

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message
11/26/2014	01:56:08	23	0.0	8.36	177.3	0	Floats Hold, .25 Bbl Back
11/26/2014	01:56:25	23	0.0	8.36	177.3	0	
11/26/2014	01:57:22	25	0.0	8.36	177.3	0	End Job

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
3.6			6.5	41.3	0.0	0.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3593	24	508				bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
%	82.4 bbl	53.0 bbl	65 degF	Cement Circulated to Surface? ☐	Volume bbl
				Washed Thru Perfs ☐	To ft

Customer or Authorized Representative	Schlumberger Supervisor		
Sean McIntyre	Ryan Drilling	Circulation Lost ☐	Job Completed ☒
		-	-