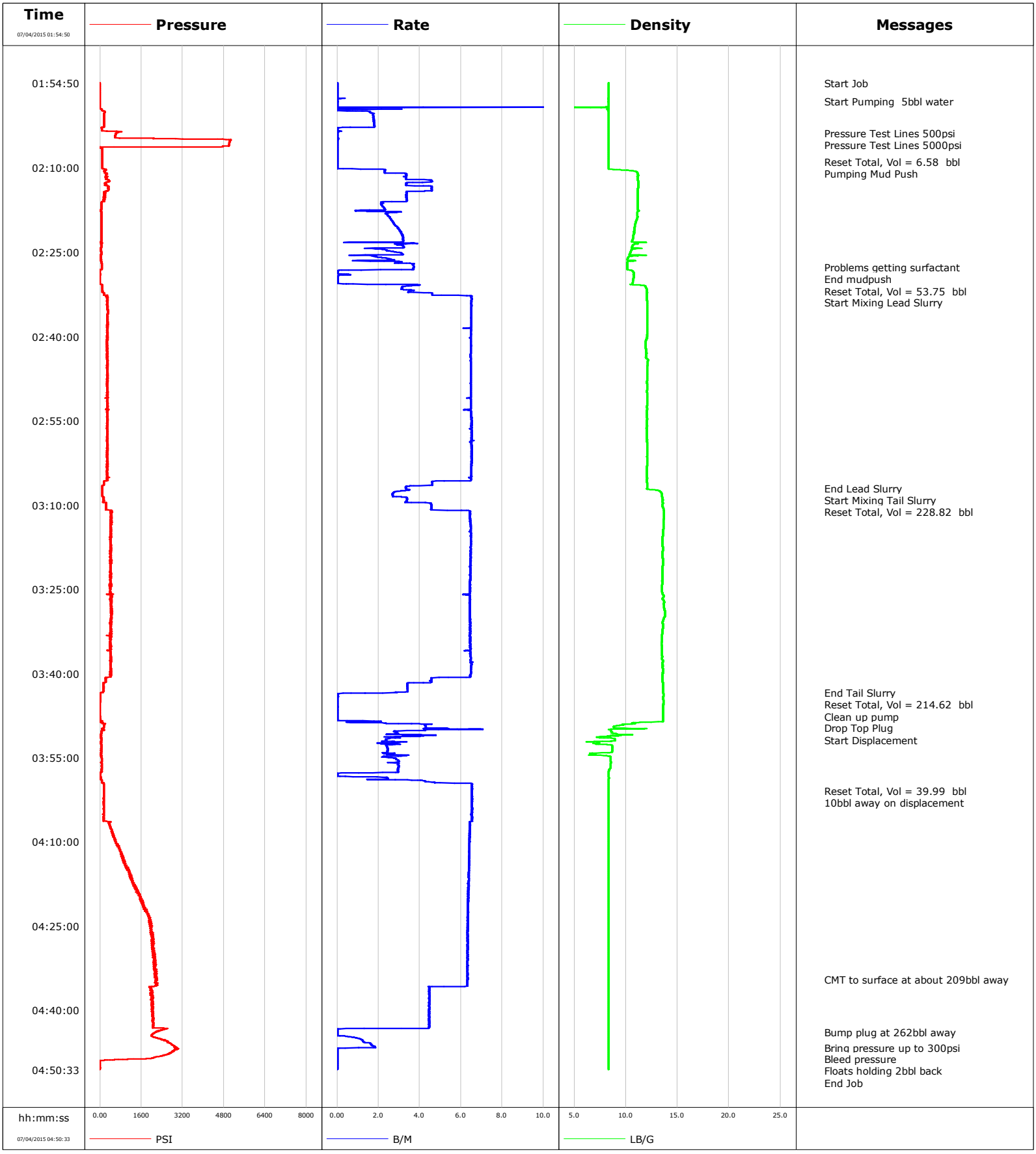
Schlumberger

Cementing Job Report

Well	Wind	**Client**	Extraction
Field	Wattenberg	**SIR No.**	D5VO-00648
Engineer	Chris Valerio/Charles Peavey	**Job Type**	Production
Country	United States	**Job Date**	07-04-2015



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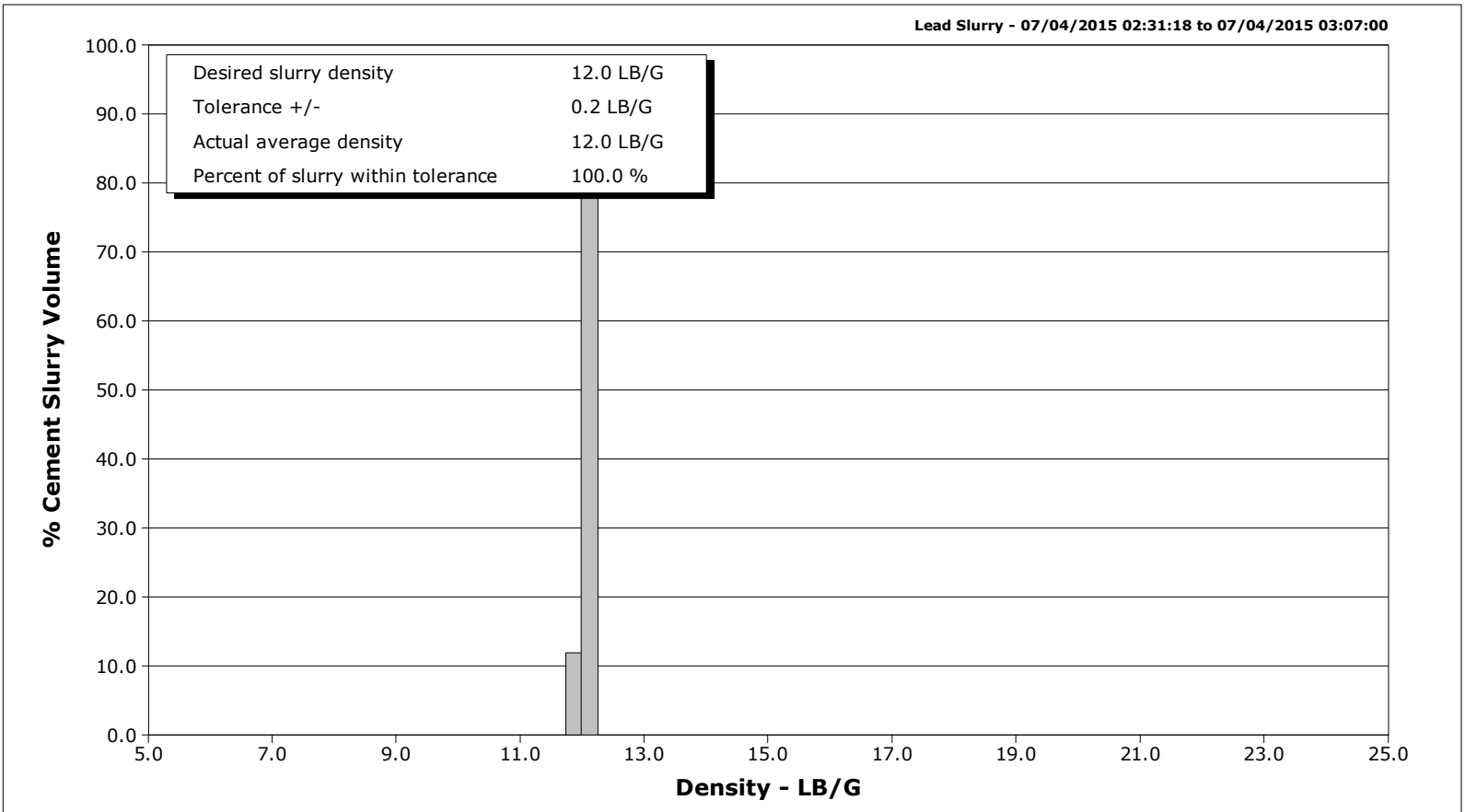
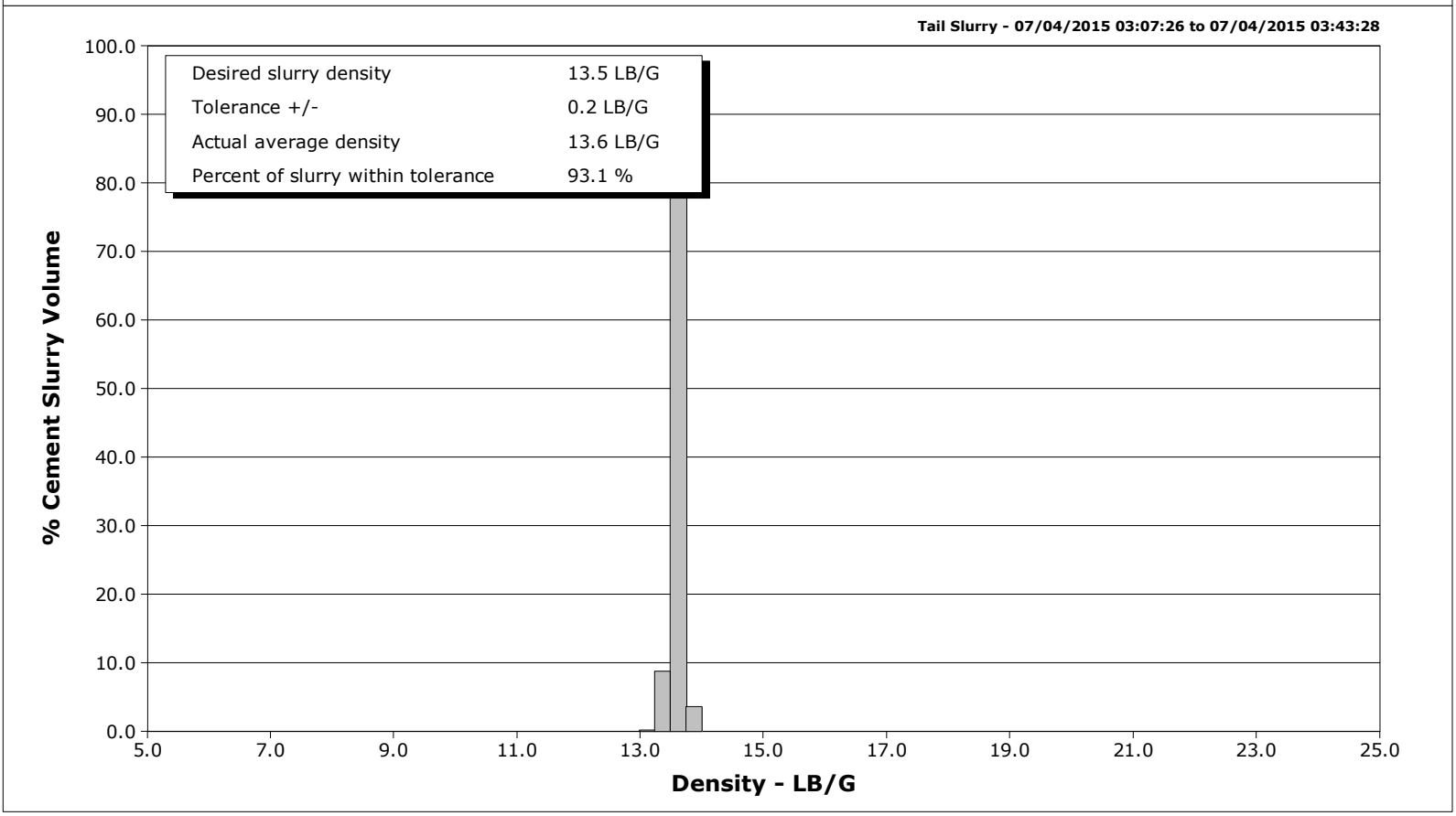
Cementing Qa/Qc Density Report

Well	Wind	**Client**	Extraction
Field	Wattenberg	**SIR No.**	D5VO-00648
Engineer	Chris Valerio/Charles Peavey	**Job Type**	Production
Country	United States	**Job Date**	07-04-2015





Schlumberger

Cementing Service Report

Customer	Job Number
Extraction	D5VO-00648

Well	Location (legal)	Schlumberger Location	Job Start
Wind #9			Jul/04/2015

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Wattenberg	Shale	90 deg	7.9 in	11804.0 ft	7134.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado	psi	208 degF	205 degF	lb/gal

Well Master	API/UWI
0631619594	05123410090000

Rig Name	Drilled For	Service Via
Savanah #802	Oil	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
Oil Mud	9.40 lb/gal	cP

Service Line	Job Type
Cementing	Production

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
4500 psi	psi	Double Cement head

Service Instructions

5bbl water
50bbl Mud push @ 11# w/surfactant
232bbl 727sks Lead CMT @ 12# 1.79 Yield 10 gal/sk water
214bbl 716sks tail CMT @ 13.5# 1.68 Yield 8.11 gal/sk water

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1510.0	9.6	36.0	J55	8RD
11804.0	5.5	20.0	P110	BUTT

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	262.0 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	262.0 bbl	390.0 bbl	bbl

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

Lift Pressure	psi

Pipe Rotated	Pipe Reciprocated
☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type	Double

Job Scheduled For	Arrived on Location	Leave Location
Jul/03/2015 20:30	Jul/03/2015 20:30	Jul/04/2015 06:00

Casing Tools

Shoe Type	Float
Shoe Depth	11804.0 ft
Stage Tool Type	
Stage Tool Depth	ft
Collar Type	Float
Collar Depth	11799.0 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	Message
07/04/2015	01:54:50	-1	0.0	8.32	0.0	Started Acquisition
07/04/2015	01:54:53	-2	0.0	8.32	0.0	Start Job
07/04/2015	01:58:05	-3	0.0	8.32	0.0	Start Pumping 5bbl water
07/04/2015	01:59:50	115	0.5	8.26	0.3	
07/04/2015	02:03:48	632	0.0	8.32	5.5	Pressure Test Lines 500psi
07/04/2015	02:04:50	3215	0.0	8.32	5.5	
07/04/2015	02:05:00	5069	0.0	8.32	5.5	Pressure Test Lines 5000psi
07/04/2015	02:08:53	86	0.0	8.32	5.5	Reset Total, Vol = 6.58 bbl
07/04/2015	02:09:50	88	0.0	8.32	5.5	
07/04/2015	02:10:19	215	2.3	9.15	5.8	Pumping Mud Push
07/04/2015	02:14:50	165	3.3	11.15	22.0	
07/04/2015	02:19:50	47	2.7	10.93	34.9	
07/04/2015	02:24:50	38	2.6	10.47	49.6	
07/04/2015	02:27:42	59	3.7	10.15	57.5	Problems getting surfactant
07/04/2015	02:28:20	-4	0.0	10.62	59.3	End mudpush
07/04/2015	02:28:24	-4	0.0	10.67	59.3	Reset Total, Vol = 53.75 bbl
07/04/2015	02:29:50	-3	0.0	10.71	59.4	
07/04/2015	02:31:18	83	3.1	11.94	61.5	Start Mixing Lead Slurry
07/04/2015	02:34:50	298	6.5	12.05	80.7	
07/04/2015	02:39:50	278	6.5	12.04	113.1	
07/04/2015	02:44:50	286	6.5	12.10	145.4	

Well	Field	Job Start	Customer	Job Number
Wind #9	Wattenberg	Jul/04/2015	Extraction	D5VO-00648

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
07/04/2015	02:54:50	281	6.5	12.04	210.1	
07/04/2015	02:59:50	277	6.5	12.06	242.6	
07/04/2015	03:04:50	282	6.5	12.02	275.2	
07/04/2015	03:07:00	82	3.3	12.04	286.4	End Lead Slurry
07/04/2015	03:07:26	89	3.3	13.16	287.8	Start Mixing Tail Slurry
07/04/2015	03:07:30	91	3.1	13.25	288.0	Reset Total, Vol = 228.82 bbl
07/04/2015	03:09:50	237	4.5	13.56	295.5	
07/04/2015	03:14:50	383	6.5	13.57	325.6	
07/04/2015	03:19:50	377	6.5	13.57	357.9	
07/04/2015	03:24:50	368	6.4	13.48	390.1	
07/04/2015	03:29:50	437	6.4	13.77	422.2	
07/04/2015	03:34:50	415	6.4	13.45	454.4	
07/04/2015	03:39:50	427	6.5	13.57	486.7	
07/04/2015	03:43:28	19	2.8	13.57	502.9	End Tail Slurry
07/04/2015	03:43:32	1	0.7	13.63	503.0	Reset Total, Vol = 214.62 bbl
07/04/2015	03:43:46	2	0.0	13.65	503.0	Clean up pump
07/04/2015	03:43:55	1	0.0	13.64	503.0	Drop Top Plug
07/04/2015	03:43:57	2	0.0	13.64	503.0	Start Displacement
07/04/2015	03:44:50	1	0.0	13.61	503.1	
07/04/2015	03:49:50	66	4.2	11.30	507.7	
07/04/2015	03:54:50	42	2.2	8.53	522.0	
07/04/2015	03:59:50	141	6.5	8.31	535.9	
07/04/2015	04:00:54	137	6.5	8.32	542.9	Reset Total, Vol = 39.99 bbl
07/04/2015	04:01:06	140	6.5	8.31	544.2	10bbl away on displacement
07/04/2015	04:04:50	140	6.5	8.31	568.6	
07/04/2015	04:09:50	579	6.4	8.31	600.8	
07/04/2015	04:14:50	1087	6.4	8.31	632.8	
07/04/2015	04:19:50	1544	6.3	8.31	664.6	
07/04/2015	04:24:50	1967	6.3	8.31	696.3	
07/04/2015	04:29:50	2053	6.3	8.31	727.9	
07/04/2015	04:34:35	2205	6.3	8.31	757.9	CMT to surface at about 209bbl away
07/04/2015	04:34:50	2168	6.3	8.31	759.4	
07/04/2015	04:39:50	1997	4.5	8.31	783.5	
07/04/2015	04:43:50	2206	0.0	8.32	798.7	Bump plug at 262bbl away
07/04/2015	04:44:50	2131	0.8	8.31	798.8	
07/04/2015	04:46:40	2957	1.0	8.31	801.4	Bring pressure up to 300psi
07/04/2015	04:48:38	1763	0.0	8.32	801.5	Bleed pressure
07/04/2015	04:49:33	-5	0.0	8.31	801.5	Floats holding 2bbl back
07/04/2015	04:49:50	-4	0.0	8.32	801.5	

Well	Field	Job Start	Customer	Job Number
Wind #9	Wattenberg	Jul/04/2015	Extraction	D5VO-00648

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.7			7.0	446.0	0.0	50.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
2997	2997	658	2600			bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
%	446.0 bbl	262.0 bbl	83 degF	[X]	53.0 bbl
				Washed Thru Perfs [ ]	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
Shawn Mcintire	Chris Valerio/Charles Peavey	-	[X] -