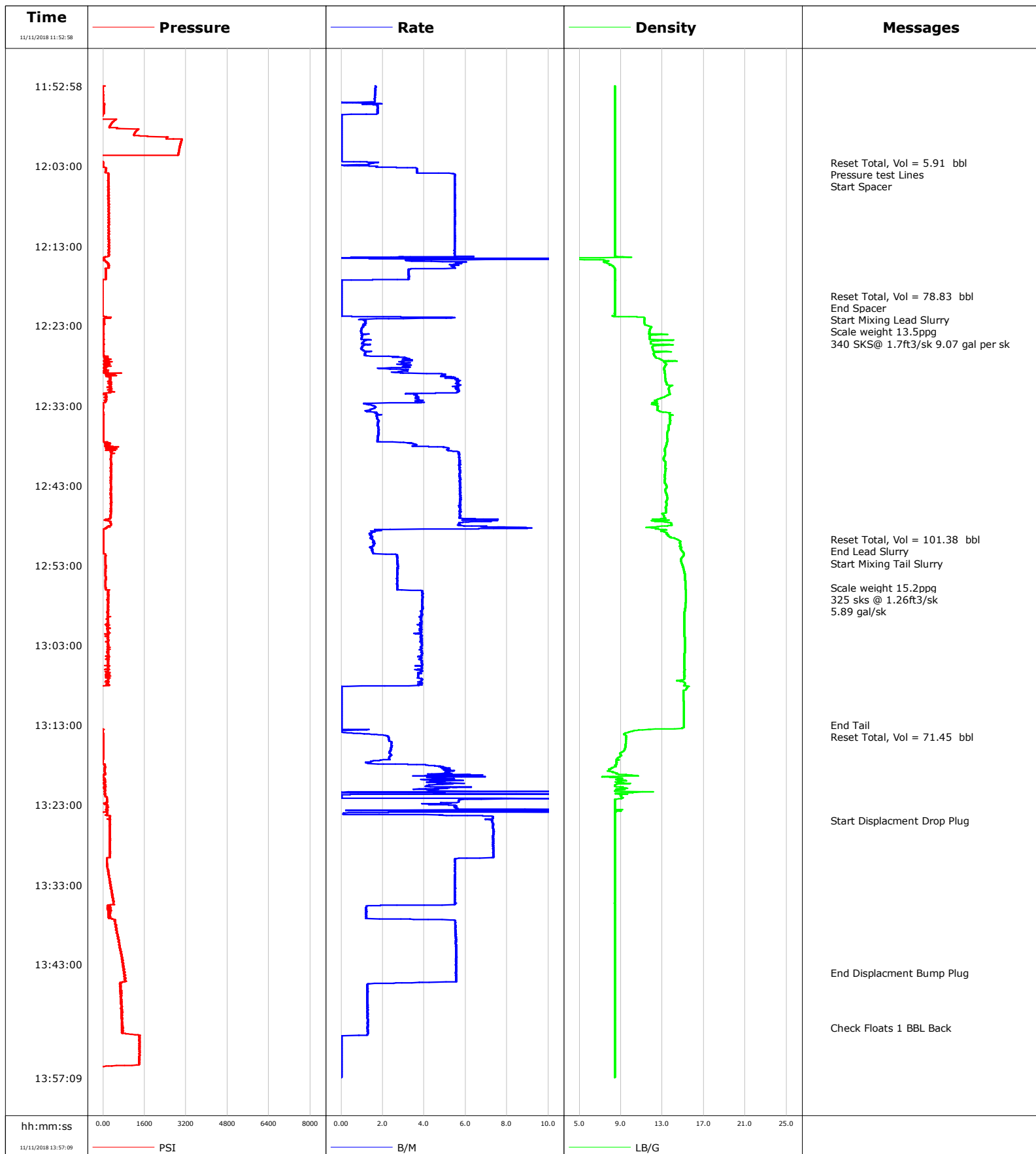


**Well** Cosslett 1L 22H B168  
**Field** Wattenberg  
**Engineer** NORM HASLAUER  
**Country**

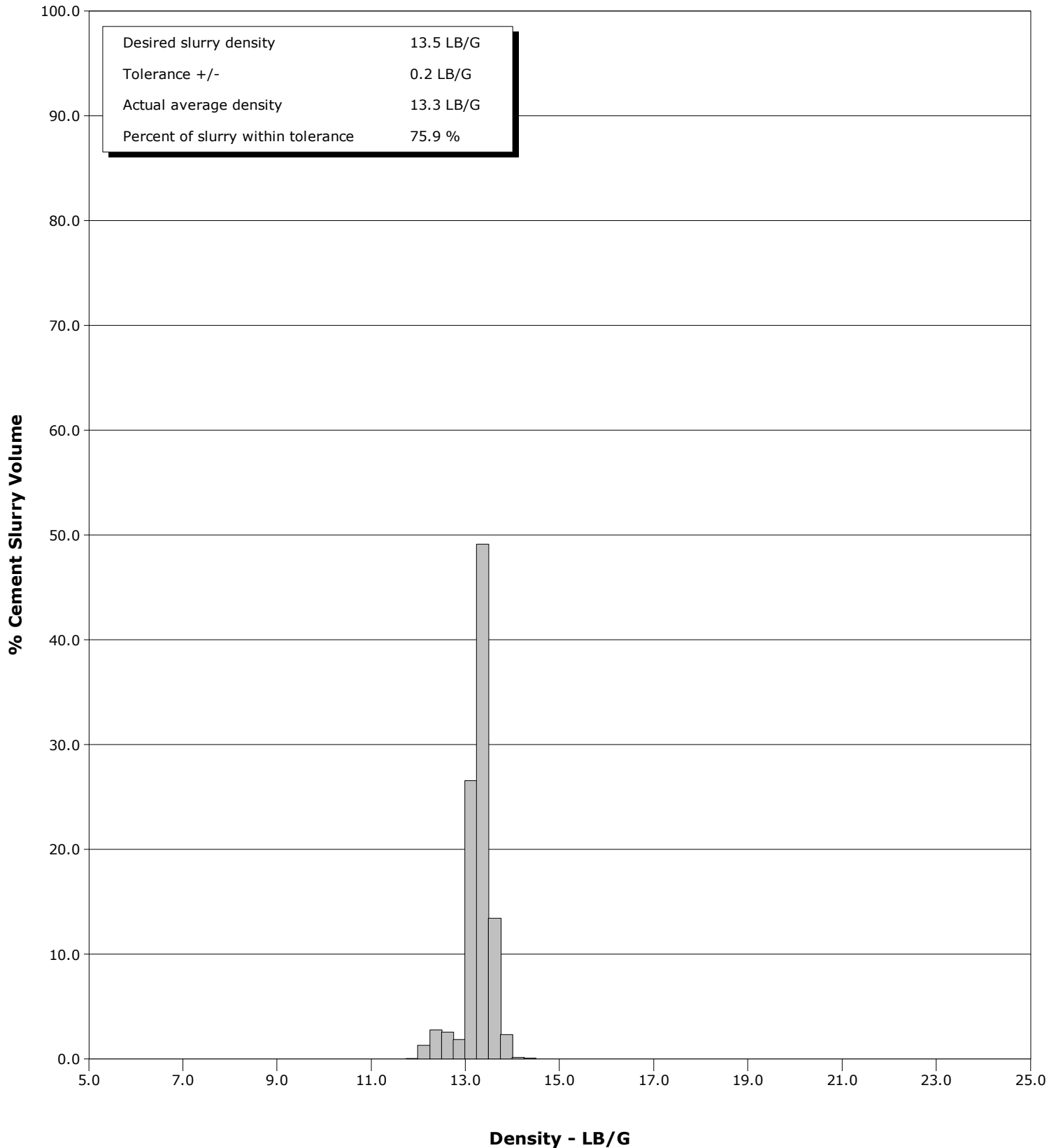
**Client** Crestone Peak  
**SIR No.** 2836906  
**Job Type** Surface  
**Job Date**



**Well** Cosslett 1L 22H B168  
**Field** Wattenberg  
**Engineer** NORM HASLAUER  
**Country**

**Client** Crestone Peak  
**SIR No.** 2836906  
**Job Type** Surface  
**Job Date**

Cement Slurry - 11/11/2018 12:26:29 to 11/11/2018 12:44:43



# Cementing Service Report

				<b>Customer</b> Crestone Peak				<b>Job Number</b> 2836906											
<b>Well</b> Cosslett 1L 22H B168 DN38-00273				<b>Location (legal)</b>				<b>Schlumberger Location</b>				<b>Job Start</b> Nov/11/2018							
<b>Field</b> Wattenberg			<b>Formation Name/Type</b>			<b>Deviation</b> deg		<b>Bit Size</b> in		<b>Well MD</b> 2579.0 ft		<b>Well TVD</b> 2579.0 ft							
<b>County</b> Weld			<b>State/Province</b> Colorado			<b>BHP</b> psi		<b>BHST</b> 110 degF		<b>BHCT</b> 80 degF		<b>Pore Press. Gradient</b> lb/gal							
<b>Well Master</b> 0631784250			<b>API/UWI</b>																
<b>Rig Name</b> ENSIGN 140		<b>Drilled For</b> Oil & Gas		<b>Service Via</b> Land		<b>Casing/ Liner</b>													
						<b>Depth, ft</b>		<b>Size, in</b>		<b>Weight, lb/ft</b>		<b>Grade</b>		<b>Thread</b>					
<b>Offshore Zone</b>		<b>Well Class</b> New		<b>Well Type</b> Development		520.0		13.4		54.0									
						2579.0		9.6		40.0									
<b>Drilling Fluid Type</b>			<b>Max. Density</b> lb/gal		<b>Plastic Viscosity</b> cP		<b>Tubing/Drill Pipe</b>												
							<b>T/D</b>		<b>Depth, ft</b>		<b>Size, in</b>		<b>Weight, lb/ft</b>		<b>Grade</b>		<b>Thread</b>		
<b>Service Line</b> Cementing			<b>Job Type</b> Surface																
<b>Max. Allowed Tub. Press</b> psi			<b>Max. Allowed Ann. Press</b> psi			<b>WH Connection</b> Single Cement head		<b>Perforations/Open Hole</b>											
								<b>Top, ft</b>		<b>Bottom, ft</b>		<b>shot/ft</b>		<b>No. of Shots</b>		<b>Total Interval</b>			
								ft		ft						ft			
								ft		ft						<b>Diameter</b>			
								ft		ft						in			
								<b>Treat Down</b> Casing		<b>Displacement</b> 192.3 bbl		<b>Packer Type</b>		<b>Packer Depth</b> ft					
								<b>Tubing Vol.</b> bbl		<b>Casing Vol.</b> 196.0 bbl		<b>Annular Vol.</b> bbl		<b>Openhole Vol.</b> bbl					
<b>Casing/Tubing Secured</b> <input type="checkbox"/>				<b>1 Hole Vol. Circulated prior to Cement</b> <input checked="" type="checkbox"/>				<b>Casing Tools</b>				<b>Squeeze Job</b>							
<b>Lift Pressure</b> 650 psi								<b>Shoe Type</b> Float				<b>Squeeze Type</b>							
<b>Pipe Rotated</b> <input type="checkbox"/>				<b>Pipe Reciprocated</b> <input type="checkbox"/>				<b>Shoe Depth</b> 2579.0 ft				<b>Tool Type</b>							
<b>No. Centralizers</b>				<b>Top Plugs</b> 1		<b>Bottom Plugs</b>		<b>Stage Tool Type</b>				<b>Tool Depth</b> ft							
<b>Cement Head Type</b>								<b>Stage Tool Depth</b> ft				<b>Tail Pipe Size</b> in							
<b>Job Scheduled For</b> Nov/11/2018				<b>Arrived on Location</b> Nov/11/2018				<b>Leave Location</b> Nov/11/2018				<b>Collar Type</b> Float				<b>Tail Pipe Depth</b> ft			
												<b>Collar Depth</b> 2536.0 ft				<b>Sqz. Total Vol.</b> bbl			
<b>Date</b>	<b>Time 24-hr clock</b>	<b>Treating Pressure PSI</b>	<b>Flow Rate B/M</b>	<b>Density LB/G</b>	<b>Volume BBL</b>	<b>Message</b>													
11/11/2018	11:52:58	74	1.6	8.41	0.0	Started Acquisition													
11/11/2018	12:02:34	6	1.8	8.42	5.9	Reset Total, Vol = 5.91 bbl													
11/11/2018	12:02:40	4	1.5	8.42	6.1	Pressure test Lines													
11/11/2018	12:02:41	3	1.5	8.42	6.1	Start Spacer													
11/11/2018	12:19:17	-28	0.0	8.42	84.7	Reset Total, Vol = 78.83 bbl													
11/11/2018	12:19:41	-29	0.0	8.42	84.7	End Spacer													
11/11/2018	12:21:08	-29	0.0	8.41	84.7	Start Mixing Lead Slurry													
11/11/2018	12:21:09	-29	0.0	8.41	84.7	Scale weight 13.5ppg													
11/11/2018	12:49:45	7	1.5	14.42	206.1	Reset Total, Vol = 101.38 bbl													
11/11/2018	12:49:49	8	1.5	14.51	206.2	End Lead Slurry													
11/11/2018	12:49:51	6	1.5	14.58	206.3	Start Mixing Tail Slurry													
11/11/2018	12:55:47	100	2.7	15.23	223.4	Scale weight 15.2ppg													
11/11/2018	12:55:49	105	2.7	15.24	223.5	5.89 gal/sk													
11/11/2018	13:13:00	-41	0.0	15.09	277.6	End Tail													
11/11/2018	13:13:14	-40	0.0	15.09	277.6	Reset Total, Vol = 71.45 bbl													
11/11/2018	13:24:55	257	7.3	8.41	326.6	Start Displacement Drop Plug													
11/11/2018	13:44:00	831	5.5	8.42	448.3	End Displacement Bump Plug													

<b>Well</b> Cosslett 1L 22H B168 DN38-00273	<b>Field</b> Wattenberg	<b>Job Start</b> Nov/11/2018	<b>Customer</b> Crestone Peak	<b>Job Number</b> 2836906
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry	N2		Mud		Maximum Rate		Total Slurry 174.0	Mud	Spacer 80.0	N2
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final 0	Average	Bump Plug to 1400	Breakdown		Type		Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 174.0 bbl		Displacement 193.0 bbl		Mix Water Temp 45 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 30.0 bbl
								Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative Brent Moon				Schlumberger Supervisor NORM HASLAUER				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-