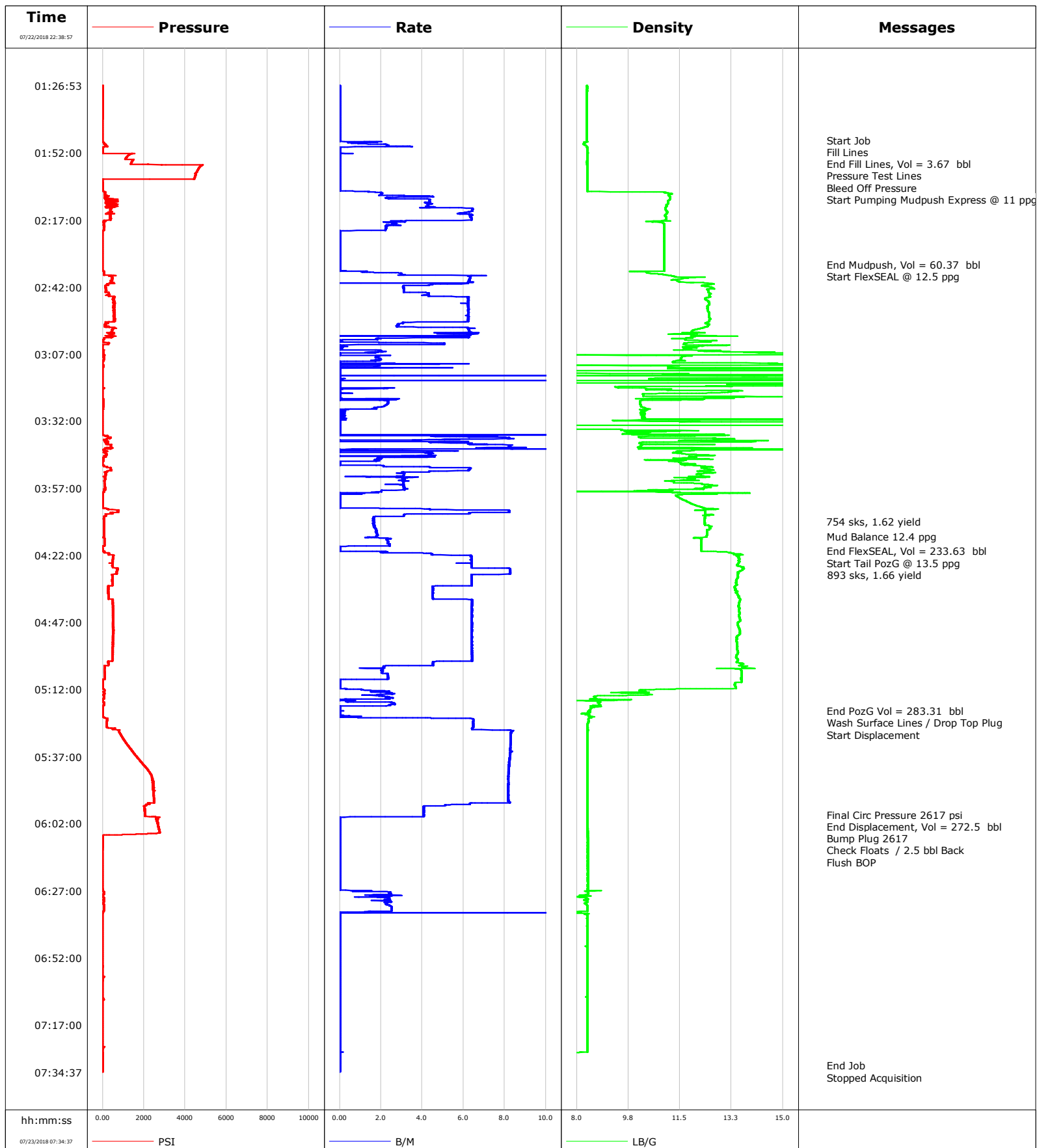


<b>Well</b>	Ruegge 3P-4H-N165	<b>Client</b>	CRESTONE PEAK RESOURCES
<b>Field</b>	Wattenberg	<b>SIR No.</b>	DN38-00033
<b>Engineer</b>	Adam Aasen	<b>Job Type</b>	Production
<b>Country</b>	United States	<b>Job Date</b>	07-23-2018



# Cementing Service Report

				Customer CRESTONE PEAK RESOURCES			Job Number DN38-00033		
Well Ruegge 3P-4H-N165			Location (legal)		Schlumberger Location Cheyenne			Job Start Jul/23/2018	
Field Wattenberg		Formation Name/Type		Deviation 90 deg		Bit Size 8.5 in		Well MD 12300.0 ft	
County WELD		State/Province Colorado		BHP psi		BHST 223 degF		BHCT 194 degF	
Well Master 0631761975		API/UWI 0512346557000						Pore Press. Gradient lb/gal	
Rig Name Ensign 140		Drilled For Oil		Service Via Land		Casing/ Liner			
						Depth, ft		Size, in	
						Weight, lb/ft		Grade	
Offshore Zone		Well Class New		Well Type New Well Completion		2533.0		9.6	
						12282.0		5.5	
						40.0		J55	
						20.0		P-110	
Drilling Fluid Type Oil Mud		Max. Density 9.90 lb/gal		Plastic Viscosity 54.000 cP		Tubing/Drill Pipe			
						T/D		Depth, ft	
						Size, in		Weight, lb/ft	
						Grade		Thread	
Service Line Cementing		Job Type Production							
Max. Allowed Tub. Press 2800 psi		Max. Allowed Ann. Press 2800 psi		WH Connection		Perforations/Open Hole			
						Top, ft		Bottom, ft	
						shot/ft		No. of Shots	
						ft		ft	
						ft		ft	
						ft		ft	
						Treat Down Casing		Displacement 272.5 bbl	
						Packer Type		Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 272.5 bbl	
						Annular Vol. 117.6 bbl		Openhole Vol. 397.8 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>				Casing Tools		Squeeze Job	
Lift Pressure psi						Shoe Type Float		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 12282.0 ft		Tool Type	
No. Centralizers 177		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 Jul/22/2018 21:30		Arrived on Location Jul/22/2018 21:30		Leave Location Jul/23/2018		Collar Type Float		Tail Pipe Depth ft	
						Collar Depth 12271.0 ft		Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
07/22/2018	22:38:57	-0	0.0	8.37	0.0	Started Acquisition			
07/23/2018	01:47:20	-3	0.0	8.34	0.0	Start Job			
07/23/2018	01:47:23	-4	0.0	8.34	0.0	Fill Lines			
07/23/2018	01:51:02	13	0.0	8.36	0.0	End Fill Lines, Vol = 3.67 bbl			
07/23/2018	01:51:07	13	0.0	8.36	0.0	Pressure Test Lines			
07/23/2018	02:02:41	-3	0.0	8.36	0.0	Bleed Off Pressure			
07/23/2018	02:02:43	-3	0.0	8.36	0.0	Start Pumping Mudpush Express @ 11 ppg			
07/23/2018	02:33:37	-7	0.0	10.97	0.0	End Mudpush, Vol = 60.37 bbl			
07/23/2018	02:33:40	-8	0.0	10.97	0.0	Start FlexSEAL @ 12.5 ppg			
07/23/2018	04:15:05	61	1.8	12.40	0.0	Mud Balance 12.4 ppg			
07/23/2018	04:20:25	1	0.0	12.23	0.0	End FlexSEAL, Vol = 233.63 bbl			
07/23/2018	04:20:26	-1	0.0	12.23	0.0	Start Tail PozG @ 13.5 ppg			
07/23/2018	05:19:57	0	0.0	8.45	0.0	End PozG Vol = 283.31 bbl			
07/23/2018	05:21:45	1	0.0	8.39	0.0	Wash Surface Lines / Drop Top Plug			
07/23/2018	05:22:44	235	4.6	8.42	0.0	Start Displacement			
07/23/2018	05:58:45	2052	4.1	8.36	0.0	Final Circ Pressure 2617 psi			
07/23/2018	06:01:40	2636	0.0	8.37	0.0	End Displacement, Vol = 272.5 bbl			
07/23/2018	06:01:44	2650	0.0	8.37	0.0	Bump Plug 2617			
07/23/2018	06:06:42	-2	0.0	8.37	0.0	Check Floats / 2.5 bbl Back			
07/23/2018	06:06:43	-2	0.0	8.37	0.0	Flush BOP			
07/23/2018	07:32:04	15	0.0	0.49	0.0	End Job			

<b>Well</b> Ruegge 3P-4H-N165	<b>Field</b> Wattenberg	<b>Job Start</b> Jul/23/2018	<b>Customer</b> CRESTONE PEAK RESOURCES	<b>Job Number</b> DN38-00033
----------------------------------	----------------------------	---------------------------------	--	---------------------------------

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry	N2	Mud	Maximum Rate		Total Slurry 516.9	Mud	Spacer 60.4	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final 0	Average	Bump Plug to 2617	Breakdown	Type FreshWater		Volume 1200.0 bbl		Density 8.34 lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 480.6 bbl		Displacement 272.5 bbl		Mix Water Temp 65 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 17.0 bbl
								Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative				Schlumberger Supervisor Adam Aasen				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-