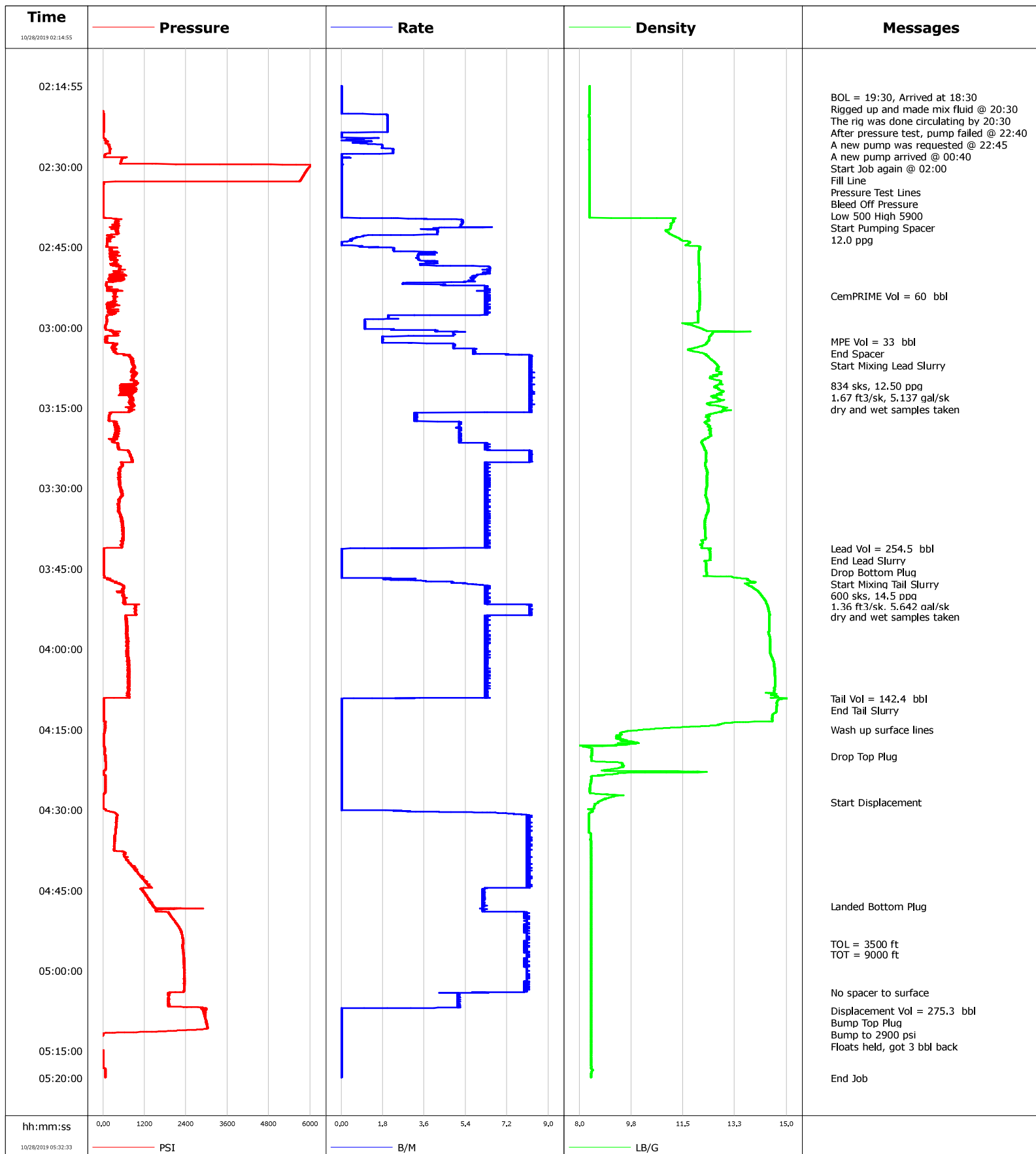


**Well** Hingley 1I-18H-A167  
**Field**  
**Engineer** Ryan Drilling  
**Country** United States

**Client** Crestone Peak Resources  
**SIR No.** EFVP-00417  
**Job Type** Production  
**Job Date** 10-28-2019



# Cementing Service Report

				Customer Crestone Peak Resources				Job Number EFVP-00417			
Well Hingley 11-18H-A167			Location (legal) E153			Schlumberger Location Cheyenne			Job Start Oct/28/2019		
Field		Formation Name/Type Clean-Sandstone		Deviation deg		Bit Size in		Well MD 12432.0 ft		Well TVD 7592.1 ft	
County Weld		State/Province Colorado		BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal	
Well Master 0064754151		API/UWI									
Rig Name Ensign 153		Drilled For Oil		Service Via Land		Casing/Liner					
						Depth, ft		Size, in		Weight, lb/ft	
										Grade	
										Thread	
Offshore Zone		Well Class New		Well Type Development		2580.0		9.6		40.0	
						12432.0		5.5		20.0	
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity 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 psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Annulus		Displacement 275.3 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 275.6 bbl		Annular Vol. 521.7 bbl	
										Openhole Vol. 1.4 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 12412.8 ft				Tool Type	
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type				Tool Depth ft	
Cement Head Type Double						Stage Tool Depth ft				Tail Pipe Size in	
Job Scheduled For Oct/27/2019 19:30		Arrived on Location Oct/27/2019 18:30		Leave Location Oct/28/2019 05:30		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 12401.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
10/28/2019	02:17:00	-2	0.0	0.0	0.0	BOL = 19:30, Arrived at 18:30					
10/28/2019	02:18:00	-1	0.0	0.0	0.0	Rigged up and made mix fluid @ 20:30					
10/28/2019	02:19:00	-1	0.0	0.0	0.0	The rig was done circulating by 20:30					
10/28/2019	02:20:00	1	0.0	0.0	0.0	After pressure test, pump failed @ 22:40					
10/28/2019	02:21:00	24	0.0	0.0	0.0	A new pump was requested @ 22:45					
10/28/2019	02:22:00	26	0.0	0.0	0.0	A new pump arrived @ 00:40					
10/28/2019	02:24:21	7	0.0	0.0	0.0	Start Job again @ 02:00					
10/28/2019	02:24:22	7	0.0	0.0	0.0	Fill Line					
10/28/2019	02:28:05	40	0.0	0.0	0.0	Pressure Test Lines					
10/28/2019	02:32:23	5730	0.0	0.0	0.0	Bleed Off Pressure					
10/28/2019	02:32:25	5727	0.0	0.0	0.0	Low 500 High 5900					
10/28/2019	02:39:16	13	0.0	0.0	0.0	Start Pumping Spacer					
10/28/2019	02:39:18	13	0.0	0.0	0.0	12.0 ppg					
10/28/2019	02:54:10	341	0.0	0.0	0.0	CemPRIME Vol = 60 bbl					
10/28/2019	03:02:39	66	0.0	0.0	0.0	MPE Vol = 33 bbl					
10/28/2019	03:02:41	70	0.0	0.0	0.0	End Spacer					
10/28/2019	03:10:48	508	0.0	0.0	0.0	834 sks, 12.50 ppg					
10/28/2019	03:12:08	598	0.0	0.0	0.0	1.67 ft3/sk, 5.137 gal/sk					
10/28/2019	03:14:48	897	0.0	0.0	0.0	dry and wet samples taken					
10/28/2019	03:41:12	34	0.0	0.0	0.0	Lead Vol = 254.5 bbl					
10/28/2019	03:41:16	20	0.0	0.0	0.0	End Lead Slurry					

Well			Field		Job Start	Customer		Job Number
Hingley 1I-18H-A167					Oct/28/2019	Crestone Peak Resources		EFVP-00417
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/28/2019	03:45:20	23	0.0	0.0	0.0	Start Mixing Tail Slurry		
10/28/2019	03:50:00	583	0.0	0.0	0.0	600 sks, 14.5 ppg		
10/28/2019	03:52:00	944	0.0	0.0	0.0	1.36 ft3/sk, 5.642 gal/sk		
10/28/2019	03:54:00	674	0.0	0.0	0.0	dry and wet samples taken		
10/28/2019	04:09:10	89	0.0	0.0	0.0	Tail Vol = 142.4 bbl		
10/28/2019	04:09:12	29	0.0	0.0	0.0	End Tail Slurry		
10/28/2019	04:15:00	54	0.0	0.0	0.0	Wash up surface lines		
10/28/2019	04:20:00	67	0.0	0.0	0.0	Drop Top Plug		
10/28/2019	04:28:37	13	0.0	0.0	0.0	Start Displacement		
10/28/2019	04:48:00	1472	0.0	0.0	0.0	Landed Bottom Plug		
10/28/2019	04:55:00	2309	0.0	0.0	0.0	TOL = 3500 ft		
10/28/2019	04:57:00	2324	0.0	0.0	0.0	TOT = 9000 ft		
10/28/2019	05:04:04	2226	0.0	0.0	0.0	No spacer to surface		
10/28/2019	05:07:28	2983	0.0	0.0	0.0	Displacement Vol = 275.3 bbl		
10/28/2019	05:07:30	2889	0.0	0.0	0.0	Bump Top Plug		
10/28/2019	05:07:31	2915	0.0	0.0	0.0	Bump to 2900 psi		
10/28/2019	05:10:00	2996	0.0	0.0	0.0	Floats held, got 3 bbl back		

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry	N2	Mud	Maximum Rate		Total Slurry 396.9	Mud	Spacer 93.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum	Final 0	Average	Bump Plug to 2900	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %	Designed Slurry Volume 393.3 bbl		Displacement 275.3 bbl	Mix Water Temp degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl				
					Washed Thru Perfs <input type="checkbox"/>		To ft				
Customer or Authorized Representative Jerry Thorstad			Schlumberger Supervisor Ryan Drilling			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>				
						-	-				