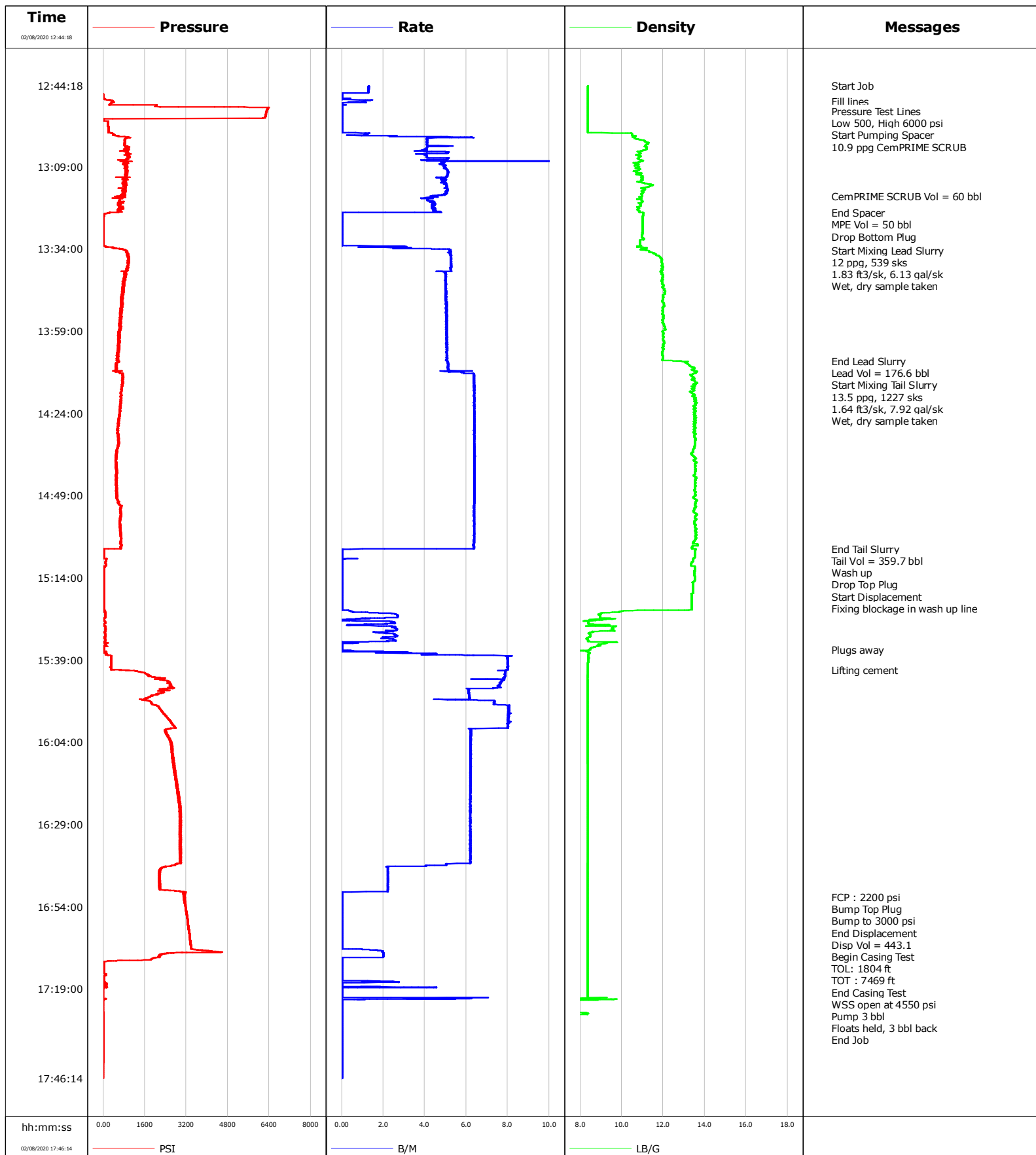


**Well** Woodsock 21-3HZ  
**Field** DJ  
**Engineer** Michael Navoy  
**Country** United States

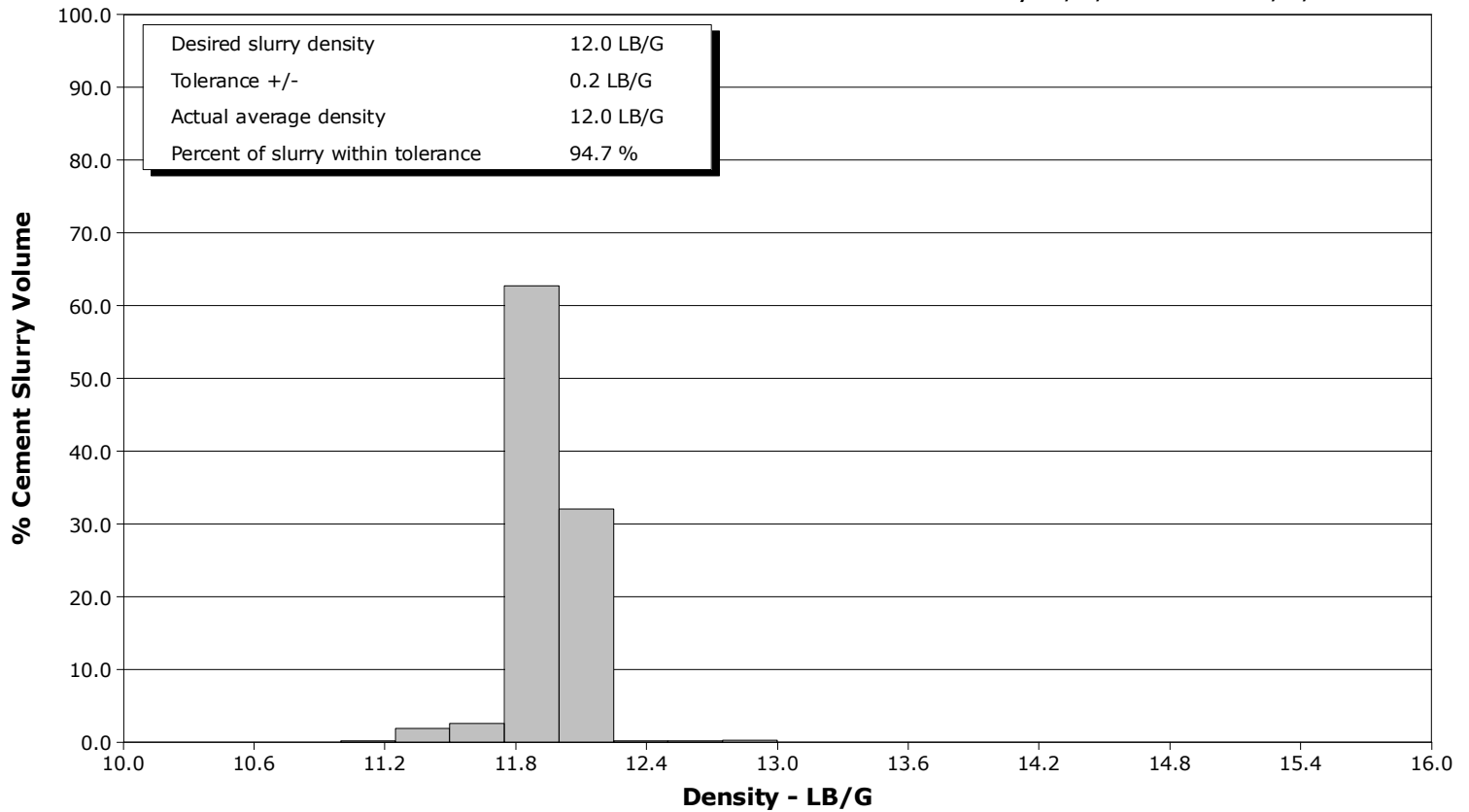
**Client** Anadarko  
**SIR No.** EAJ7-01237  
**Job Type** Production  
**Job Date** 02-08-2020



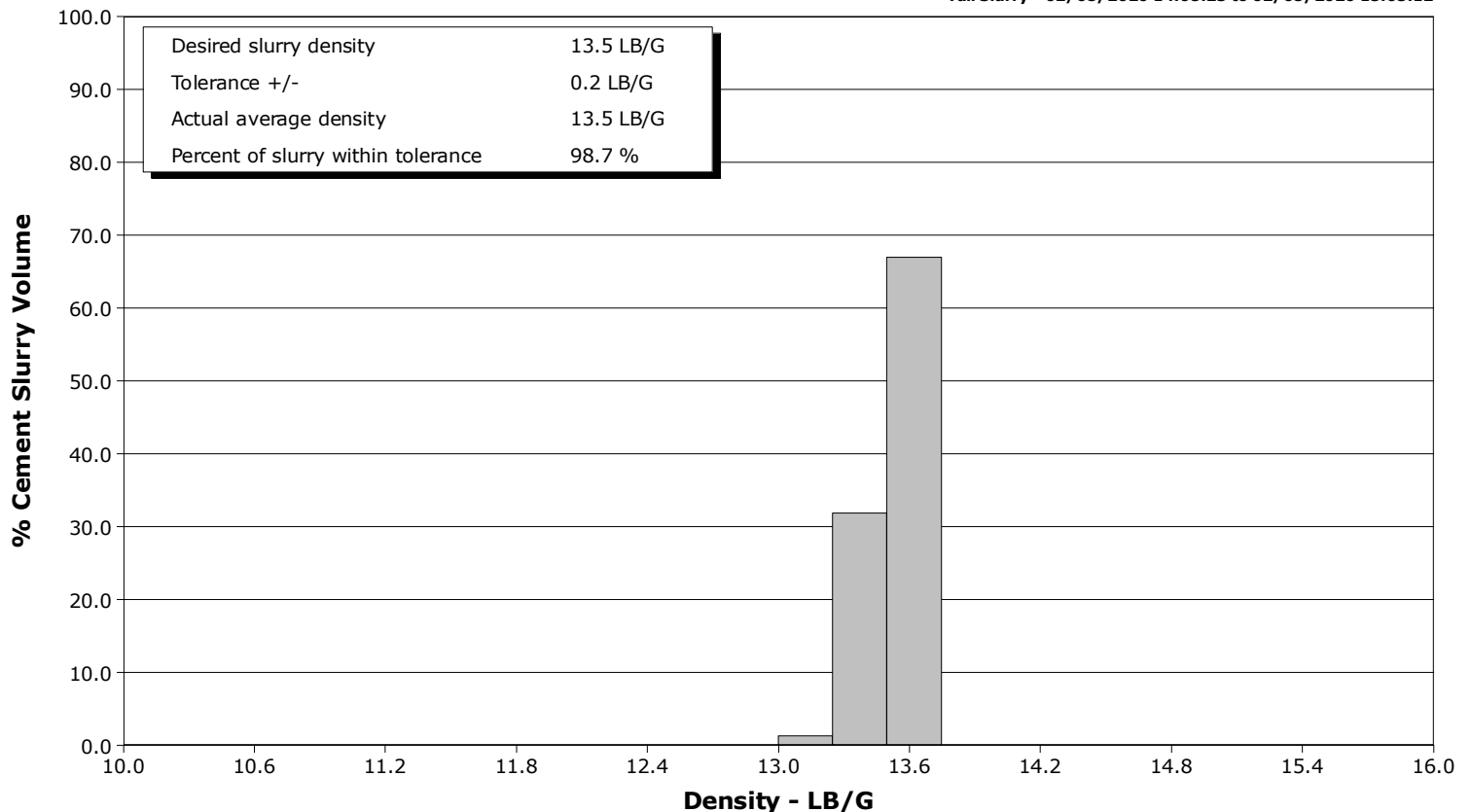
**Well** Woodsock 21-3HZ  
**Field** DJ  
**Engineer** Michael Navoy  
**Country** United States

**Client** Anadarko  
**SIR No.** EAJ7-01237  
**Job Type** Production  
**Job Date** 02-08-2020

**Lead Slurry - 02/08/2020 13:34:23 to 02/08/2020 14:08:06**



**Tail Slurry - 02/08/2020 14:08:23 to 02/08/2020 15:05:12**



# Cementing Service Report

				Customer Anadarko			Job Number EAJ7-01237	
Well Woodsock 21-3HZ			Location (legal) P461		Schlumberger Location Cheyenne		Job Start Feb/08/2020	
Field DJ		Formation Name/Type		Deviation 90 deg	Bit Size 7.9 in	Well MD 19110.0 ft		Well TVD 7865.0 ft
County Weld		State/Province Colorado		BHP psi	BHST 230 degF	BHCT 230 degF	Pore Press. Gradient lb/gal	
Well Master 0065959425		API/UWI 05-123-50635-00-00						
Rig Name P461	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	1896.0	9.6	36.0	J55	N/A	
			19110.0	5.5	17.0	P110		
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP	Tubing / Drill Pipe				
				T/D	Depth, ft	Size, in	Weight, lb/ft	Grade
Service Line Cementing	Job Type Production					0.0	0.0	
						0.0	0.0	
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection	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 Casing	Displacement 443.1 bbl	Packer Type	Packer Depth ft		
			Tubing Vol. bbl	Casing Vol. 443.5 bbl	Annular Vol. 622.7 bbl	Openhole Vol. 0.0 bbl		
Casing / Tubing Secured <input 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 19110.0 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 Feb/08/2020 07:00	Arrived on Location Feb/08/2020 05:00	Leave Location Feb/08/2020 18:00	Collar Type Float			Tail Pipe Depth ft		
			Collar Depth 19108.0 ft			Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
02/08/2020	12:44:18	-103	1.3	8.36	0.0	Started Acquisition		
02/08/2020	12:49:00	356	1.1	8.36	0.6	Fill lines		
02/08/2020	12:52:00	6293	0.0	8.36	1.0	Pressure Test Lines		
02/08/2020	12:53:00	6260	0.0	8.36	1.0	Low 500, High 6000 psi		
02/08/2020	12:57:38	203	0.0	8.36	1.0	Start Pumping Spacer		
02/08/2020	12:57:45	203	0.0	8.36	1.0	10.9 ppg CemPRIME SCRUB		
02/08/2020	13:17:52	749	4.6	10.96	89.4	CemPRIME SCRUB Vol = 60 bbl		
02/08/2020	13:22:53	254	0.0	11.04	111.1	End Spacer		
02/08/2020	13:22:56	241	0.0	11.04	111.1	MPE Vol = 50 bbl		
02/08/2020	13:23:08	84	0.0	11.03	111.1	Drop Bottom Plug		
02/08/2020	13:34:23	901	5.2	11.17	116.2	Start Mixing Lead Slurry		
02/08/2020	13:34:24	867	5.3	11.18	116.3	12 ppg, 539 sks		
02/08/2020	13:34:25	910	5.2	11.22	116.4	1.83 ft3/sk, 6.13 gal/sk		
02/08/2020	14:08:06	583	5.1	12.96	287.5	End Lead Slurry		
02/08/2020	14:08:08	587	5.1	13.09	287.7	Lead Vol = 176.6 bbl		
02/08/2020	14:08:23	606	5.1	13.05	288.9	Start Mixing Tail Slurry		
02/08/2020	14:08:27	533	5.1	13.03	289.3	13.5 ppg, 1227 sks		
02/08/2020	15:05:12	35	0.0	13.57	647.4	End Tail Slurry		
02/08/2020	15:05:13	34	0.0	13.57	647.4	Tail Vol = 359.7 bbl		
02/08/2020	15:05:33	30	0.0	13.54	647.4	Wash up		
02/08/2020	15:05:38	30	0.0	13.54	647.4	Drop Top Plug		

Well			Field		Job Start	Customer	Job Number
Woodsock 21-3HZ			DJ		Feb/08/2020	Anadarko	EAJ7-01237
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/08/2020	15:13:00	27	0.0	13.50	647.4	Fixing blockage in wash up line	
02/08/2020	15:36:00	19	0.5	8.39	666.7	Plugs away	
02/08/2020	15:42:01	840	7.9	8.36	707.3	Lifting cement	
02/08/2020	16:51:13	3140	0.0	8.36	1115.8	FCP : 2200 psi	
02/08/2020	16:51:30	3148	0.0	8.36	1115.8	Bump Top Plug	
02/08/2020	16:51:32	3125	0.0	8.36	1115.8	Bump to 3000 psi	
02/08/2020	16:51:45	3126	0.0	8.36	1115.8	End Displacement	
02/08/2020	16:51:47	3144	0.0	8.36	1115.8	Disp Vol = 443.1	
02/08/2020	16:52:06	3121	0.0	8.36	1115.8	Begin Casing Test	
02/08/2020	16:52:14	3124	0.0	8.36	1115.8	TOL: 1804 ft	
02/08/2020	16:52:15	3121	0.0	8.36	1115.8	TOT : 7469 ft	
02/08/2020	17:06:00	3375	0.0	8.35	1115.8	End Casing Test	
02/08/2020	17:07:54	3079	2.0	8.35	1117.7	WSS open at 4550 psi	
02/08/2020	17:08:06	2463	2.0	8.35	1118.1	Pump 3 bbl	
02/08/2020	17:10:28	257	0.0	8.35	1120.6	Floats held, 3 bbl back	

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.4	N2	Mud	Maximum Rate 12.7	Total Slurry 536.3	Mud 0.0	Spacer 110.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 6374	Final -11	Average 1211	Bump Plug to 3000	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl		Displacement 443.1 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 Company Man			Schlumberger Supervisor Michael Navoy			Circulation Lost <input type="checkbox"/>	Job Completed <input type="checkbox"/>	
						-	-	