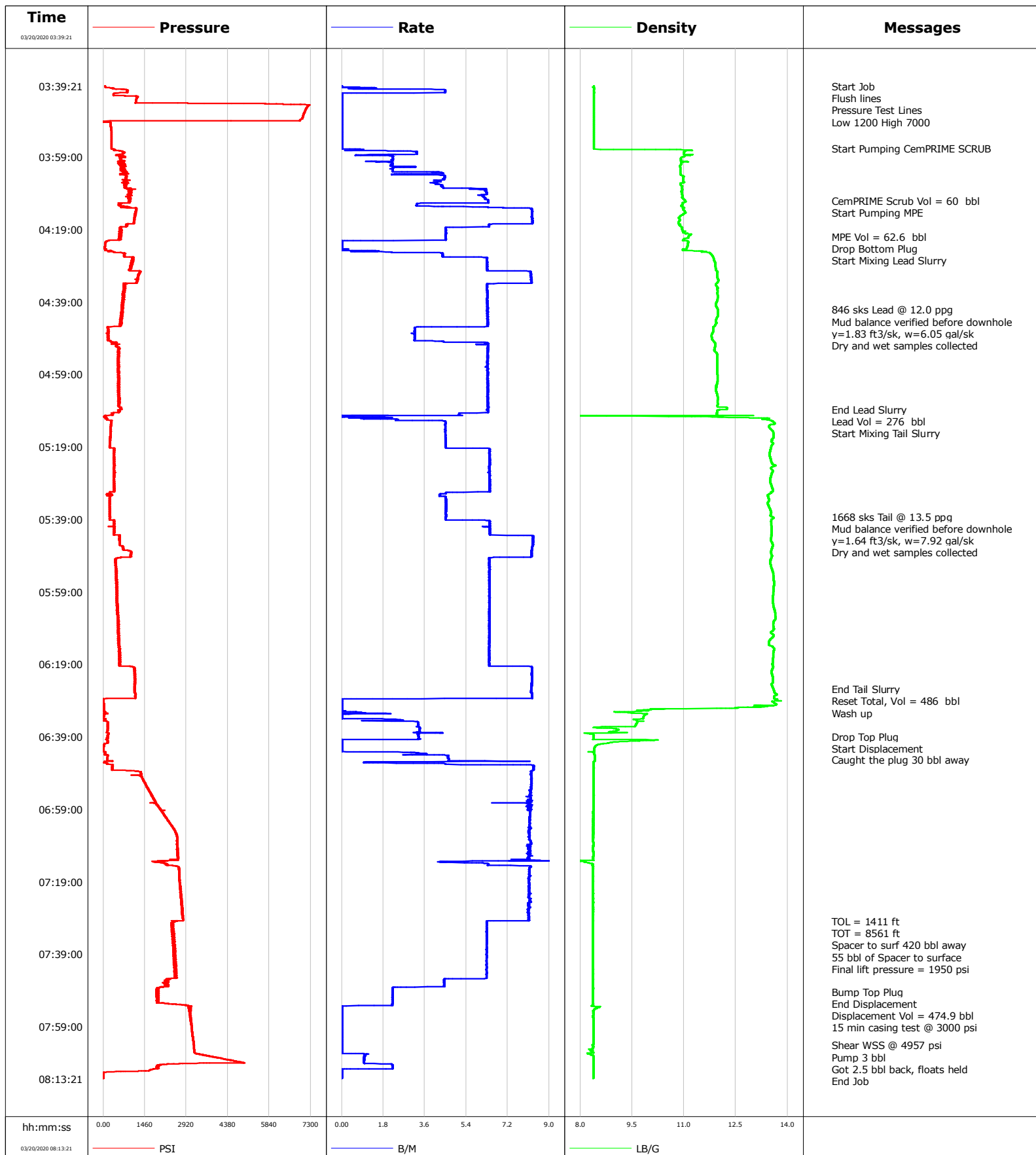


**Well** Damore 18-3HZ  
**Field** DJ  
**Engineer** Hyunwoo Chung  
**Country** United States

**Client** Anadarko Petroleum Company  
**SIR No.** EAJ7-01264  
**Job Type** Production  
**Job Date** 03-20-2020



# Cementing Service Report

				Customer Anadarko Petroleum Company			Job Number EAJ7-01264	
Well Damore 18-3HZ			Location (legal) Cheyenne			Schlumberger Location Pierre Lessard		Job Start Mar/20/2020
Field DJ		Formation Name/Type		Deviation 90 deg		Bit Size 8.5 in		Well MD 20473.0 ft
County Weld		State/Province Colorado		BHP psi		BHST degF		Pore Press. Gradient lb/gal
Well Master 0065961662		API/UWI 05-123-50779-00-00		BHCT degF				
Rig Name P 564		Drilled For Oil & Gas		Service Via Land		Casing/ Liner		
						Depth, ft	Size, in	Weight, lb/ft
								Grade
Offshore Zone N/A		Well Class New		Well Type Development		20473.0	5.5	17.0
						1868.0	9.6	36.0
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						
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
Service Instructions 5 1/2" Production Cementing						ft	ft	
						ft	ft	Diameter
						ft	ft	in
						Treat Down Annulus	Displacement 474.9 bbl	Packer Type
								Packer Depth
						Tubing Vol. bbl	Casing Vol. 475.0 bbl	Annular Vol. 850.0 bbl
								Openhole Vol. 0.0 bbl
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>		Casing Tools		Squeeze Job		
Lift Pressure 15000 psi				Shoe Type Float		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 20473.0 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 Mar/19/2020 20:00		Arrived on Location Mar/19/2020 19:15		Leave Location Mar/20/2020 11:00		Collar Type Float		Tail Pipe Depth ft
						Collar Depth 20471.1 ft		Sqz. Total Vol. bbl
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
03/20/2020	03:39:27	68	0.0	8.40	0.0	Start Job		
03/20/2020	03:39:53	234	1.4	8.38	0.1	Flush lines		
03/20/2020	03:44:44	7218	0.0	8.40	5.1	Low 1200 High 7000		
03/20/2020	03:56:33	288	0.0	8.40	0.0	Start Pumping CemPRIME SCRUB		
03/20/2020	04:11:00	896	6.3	11.03	53.8	CemPRIME Scrub Vol = 60 bbl		
03/20/2020	04:12:00	589	3.3	10.96	59.3	Start Pumping MPE		
03/20/2020	04:21:00	575	4.5	11.12	117.9	MPE Vol = 62.6 bbl		
03/20/2020	04:22:00	213	4.0	10.97	122.4	Drop Bottom Plug		
03/20/2020	04:24:33	90	0.0	10.96	122.6	Start Mixing Lead Slurry		
03/20/2020	04:41:09	690	6.3	11.98	227.2	846 sks Lead @ 12.0 ppg		
03/20/2020	04:41:10	700	6.3	11.98	227.3	Mud balance verified before downhole		
03/20/2020	05:08:30	651	6.3	12.24	387.1	End Lead Slurry		
03/20/2020	05:09:00	581	6.3	11.95	390.3	Lead Vol = 276 bbl		
03/20/2020	05:10:24	55	0.5	7.23	397.8	Start Mixing Tail Slurry		
03/20/2020	05:38:14	219	4.5	13.53	542.2	1668 sks Tail @ 13.5 ppg		
03/20/2020	05:38:15	247	4.5	13.54	542.2	y=1.64 ft/sk, w=7.92 gal/sk		
03/20/2020	06:25:50	1089	8.2	13.58	867.9	End Tail Slurry		
03/20/2020	06:26:00	1102	8.2	13.59	869.2	Reset Total, Vol = 486 bbl		
03/20/2020	06:30:26	19	0.0	13.51	0.1	Wash up		
03/20/2020	06:39:00	149	3.3	8.38	16.6	Drop Top Plug		
03/20/2020	06:40:00	157	0.0	10.05	19.1	Start Displacement		

Well			Field		Job Start		Customer		Job Number	
Damore 18-3HZ			DJ		Mar/20/2020		Anadarko Petroleum Company		EAJ7-01264	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
03/20/2020	07:30:00	2529	6.3	8.37	382.6	TOL = 1411 ft				
03/20/2020	07:31:00	2438	6.3	8.37	388.9	TOT = 8561 ft				
03/20/2020	07:35:00	2473	6.3	8.37	414.0	Spacer to surf 420 bbl away				
03/20/2020	07:36:00	2457	6.3	8.37	420.3	55 bbl of Spacer to surface				
03/20/2020	07:40:30	2546	6.3	8.37	448.6	Final lift pressure = 1950 psi				
03/20/2020	07:49:18	1867	2.2	8.37	494.6	Bump Top Plug				
03/20/2020	07:50:00	1867	2.2	8.37	496.2	End Displacement				
03/20/2020	07:51:00	1948	2.2	8.37	498.4	Displacement Vol = 474.9 bbl				
03/20/2020	07:52:39	2256	2.2	8.37	502.0	15 min casing test @ 3000 psi				
03/20/2020	08:04:10	3179	0.0	8.36	503.3	Shear WSS @ 4957 psi				
03/20/2020	08:05:00	3190	0.0	8.36	503.3	Pump 3 bbl				
03/20/2020	08:06:00	3206	0.0	8.36	503.3	Got 2.5 bbl back, floats held				

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 6.1	N2	Mud	Maximum Rate 10.2	Total Slurry 762.0	Mud 0.0	Spacer 122.6	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 7276	Final 1950	Average 1238	Bump Plug to 3000	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 763.0 bbl	Displacement 474.9 bbl	Mix Water Temp 75 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl		
					Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Mr. Bill Fryar			Schlumberger Supervisor Hyunwoo Chung			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	