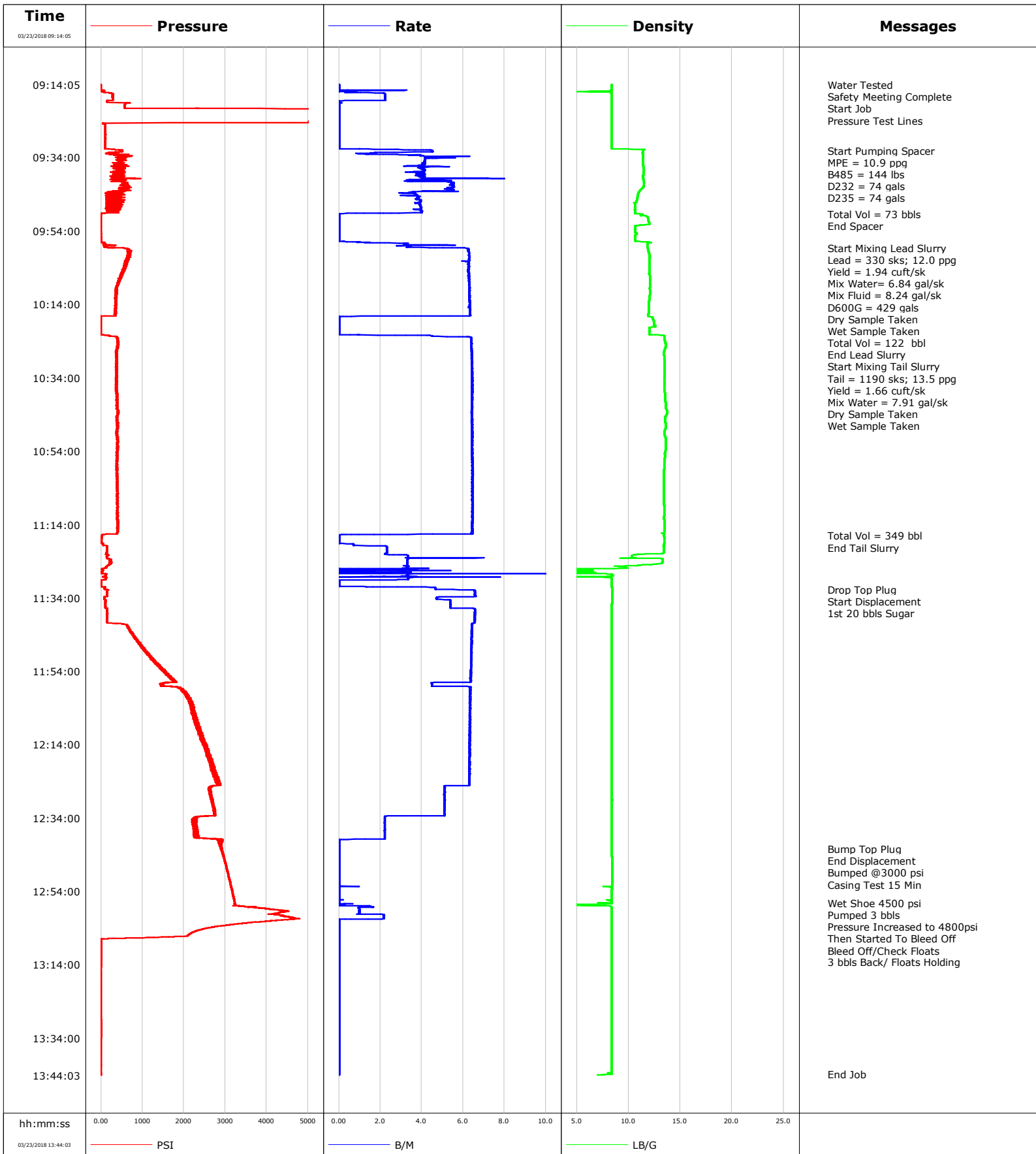


Well	Hammer 3-3HZ	Client	ANADARKO PETROLEUM COMPANY (ED)
Field	Wattenberg	SIR No.	DYN2-00169
Engineer	Michael Lopez	Job Type	5.5 Production
Country	United States	Job Date	03-23-2018



				Customer			Job Number			
				ANADARKO PETROLEUM COMPANY (ED)			DYN2-00169			
Well		Location (legal)			Schlumberger Location			Job Start		
Hammer 3-3HZ 0631728727					CWY			Mar/23/2018		
Field		Formation Name/Type			Deviation	Bit Size	Well MD		Well TVD	
Wattenberg					deg	7.9 in	16858.0 ft		7743.0 ft	
County		State/Province			BHP	BHST	BHCT	Pore Press. Gradient		
		Colorado			psi	230 degF	230 degF	lb/gal		
Well Master		API/UWI								
0631728727		05123451130000								
Rig Name	Drilled For		Service Via		Casing/Liner					
Precision 461	Oil & Gas		Land		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class		Well Type		1883.0	9.6	36.0	J55	8RD	
	New		Exploration		16856.0	5.5	17.0	P110	8RD	
Drilling Fluid Type		Max. Density	Plastic Viscosity		Tubing/Drill Pipe					
OBM		9.20 lb/gal	cP		T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line	Job Type									
Cementing	5.5 Production									
Max. Allowed Tub. Press	Max. Allowed Ann. Press		WH Connection		Perforations/Open Hole					
psi	psi		5.5 8 rnd		Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
					ft	ft			ft	
					ft	ft			Diameter	
					ft	ft			in	
Service Instructions		Treat Down	Displacement		Packer Type		Packer Depth			
9 5/8" 36# Previous Casing: 1,883' 7 7/8" to TD // OH Excess: 4% Top of Lead Cement: 2,500' Top of Tail Cement: 6,000' TD: 16,853' (7,743') Temp Gradient 2.2 degF/100ft from Gradient Map		Casing	391.0 bbl				ft			
		Tubing Vol.	Casing Vol.		Annular Vol.		Openhole Vol.			
		bbl	391.0 bbl		552.7 bbl		463.0 bbl			
Casing/Tubing Secured		1 Hole Vol. Circulated prior to Cement	Casing Tools			Squeeze Job				
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>								
Lift Pressure		Shoe Type	Shoe Depth		Squeeze Type					
psi		Float	16851.0 ft		Tool Type					
Pipe Rotated		Pipe Reciprocated	Stage Tool Type			Tool Depth			ft	
<input type="checkbox"/>		<input type="checkbox"/>								
No. Centralizers		Top Plugs	Bottom Plugs		Stage Tool Depth			Tail Pipe Size		in
		1	1		ft					
Cement Head Type		Job Scheduled For	Arrived on Location		Leave Location		Collar Type		Tail Pipe Depth	ft
Double		Mar/23/2018 05:00	Mar/23/2018 05:00		Mar/23/2018 15:00		Float			
		Collar Depth	Sqz. Total Vol.							bbl
		16847.0 ft								
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
03/23/2018	09:14:05	-3	0.0	8.37	0.0	Started Acquisition				
03/23/2018	09:14:07	-3	0.0	8.38	0.0	Water Tested				
03/23/2018	09:14:08	-4	0.0	8.38	0.0	Safety Meeting Complete				
03/23/2018	09:14:12	-3	0.0	8.38	0.0	Start Job				
03/23/2018	09:14:15	-4	0.0	8.38	0.0	Pressure Test Lines				
03/23/2018	09:32:06	527	4.5	11.37	6.7	Start Pumping Spacer				
03/23/2018	09:32:09	501	4.5	11.37	6.9	MPE = 10.9 ppg				
03/23/2018	09:32:10	516	4.5	11.37	7.0	B485 = 144 lbs				
03/23/2018	09:32:11	507	4.5	11.37	7.1	D232 = 74 gals				
03/23/2018	09:32:15	525	4.5	11.37	7.4	D235 = 74 gals				
03/23/2018	09:49:16	16	0.1	10.61	77.7	Total Vol = 73 bbls				
03/23/2018	09:49:17	14	0.0	10.62	77.7	End Spacer				
03/23/2018	09:58:35	277	5.0	11.83	82.7	Start Mixing Lead Slurry				
03/23/2018	09:58:38	308	5.9	11.84	83.0	Lead = 330 sks; 12.0 ppg				
03/23/2018	09:58:39	517	6.0	11.84	83.1	Mix Water= 6.84 gal/sk				
03/23/2018	10:00:26	699	6.3	12.01	94.2	Mix Fluid = 8.24 gal/sk				
03/23/2018	10:00:58	681	6.3	12.04	97.6	D600G = 429 gals				
03/23/2018	10:01:20	634	6.3	12.04	99.9	Dry Sample Taken				
03/23/2018	10:01:46	643	6.3	12.03	102.6	Wet Sample Taken				
03/23/2018	10:17:15	-5	1.1	11.91	199.8	Total Vol = 122 bbl				
03/23/2018	10:17:19	-2	0.1	11.90	199.8	End Lead Slurry				

Well		Field		Job Start		Customer		Job Number	
Hammer 3-3HZ 0631728727		Wattenberg		Mar/23/2018		ANADARKO PETROLEUM COMPANY (ED		DYN2-00169	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
03/23/2018	10:23:02	388	6.4	13.44	203.2	Tail = 1190 sks; 13.5 ppg			
03/23/2018	10:23:03	391	6.4	13.44	203.3	Yield = 1.66 cuft/sk			
03/23/2018	10:23:05	401	6.4	13.44	203.5	Mix Water = 7.91 gal/sk			
03/23/2018	10:23:06	390	6.4	13.44	203.6	Dry Sample Taken			
03/23/2018	10:26:05	400	6.4	13.52	222.7	Wet Sample Taken			
03/23/2018	11:17:03	21	0.0	13.41	548.5	Total Vol = 349 bbl			
03/23/2018	11:17:26	13	0.0	13.44	548.5	End Tail Slurry			
03/23/2018	11:31:43	89	4.7	8.43	578.4	Drop Top Plug			
03/23/2018	11:31:44	87	4.7	8.43	578.5	Start Displacement			
03/23/2018	11:33:58	81	4.7	8.43	592.6	1st 20 bbls Sugar			
03/23/2018	12:42:25	2909	0.0	8.39	969.7	Bump Top Plug			
03/23/2018	12:42:26	2924	0.0	8.39	969.7	End Displacement			
03/23/2018	12:42:31	2899	0.0	8.39	969.7	Bumped @3000 psi			
03/23/2018	12:45:01	2974	0.0	8.40	969.7	Casing Test 15 Min			
03/23/2018	12:57:04	3226	0.0	7.54	969.7	Wet Shoe 4500 psi			
03/23/2018	13:01:04	4572	2.2	8.39	974.0	Pressure Increased to 4800psi			
03/23/2018	13:01:05	4620	2.2	8.39	974.1	Then Started To Bleed Off			
03/23/2018	13:06:33	1195	0.0	8.39	975.0	Bleed Off/Check Floats			
03/23/2018	13:06:58	13	0.0	8.39	975.0	3 bbls Back/ Floats Holding			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
5.5			22.0	461.0	0.0	73.0		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
5310	-1	1165	3000			bbl	lb/gal	
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume			
%	461.0 bbl	391.0 bbl	65 degF	<input type="checkbox"/>	bbl			
				Washed Thru Perfs	To			
				<input type="checkbox"/>	ft			
Customer or Authorized Representative	Schlumberger Supervisor			Circulation Lost	Job Completed			
Jeremy Skates	Michael Lopez			<input type="checkbox"/>	<input checked="" type="checkbox"/>			
				-	-			