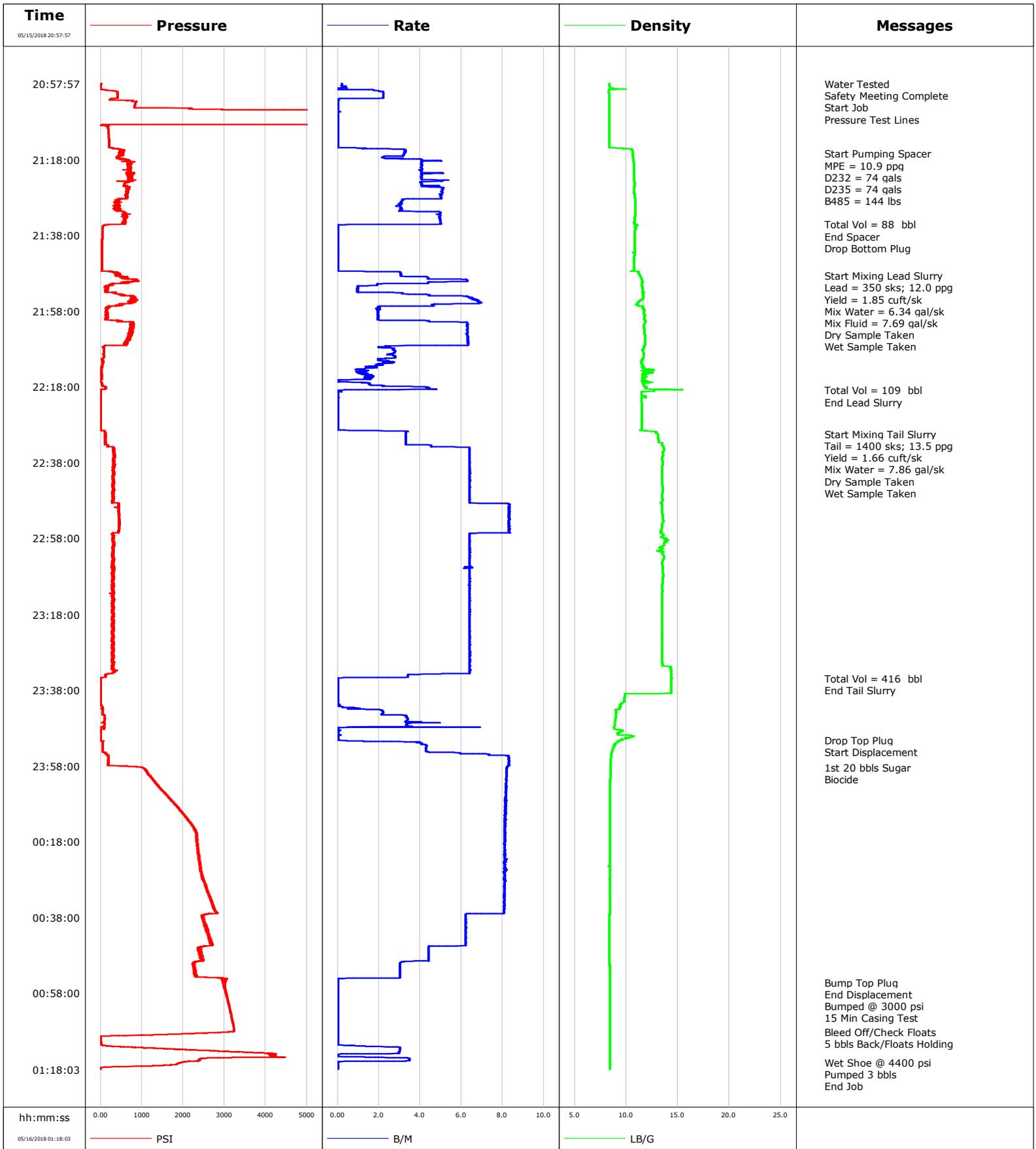


Well	Verde 13-10HZ	Client	ANADARKO PETROLEUM COMPANY (ED)
Field	Wattenberg	SIR No.	E0ZP-00167
Engineer	Michael Lopez	Job Type	5.5 Production
Country	United States	Job Date	05-15-2018



				Customer			Job Number			
				ANADARKO PETROLEUM COMPANY (ED)			E0ZP-00167			
Well		Location (legal)			Schlumberger Location		Job Start			
Verde 13-10HZ 0631753796					CWY		May/15/2018			
Field		Formation Name/Type			Deviation	Bit Size	Well MD	Well TVD		
Wattenberg					deg	7.9 in	18789.0 ft	7531.0 ft		
County		State/Province			BHP	BHST	BHCT	Pore Press. Gradient		
		Colorado			psi	233 degF	230 degF	lb/gal		
Well Master		API/UWI								
0631753796		05123462540000								
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		1887.0	9.6	36.0	J-55	N/A	
		New	Exploration		18777.0	5.5	17.0	P-110	8RD	
Drilling Fluid Type		Max. Density	Plastic Viscosity		Tubing/Drill Pipe					
OBM		9.50 lb/gal	cP		T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line		Job Type			Perforations/Open Hole					
Cementing		5.5 Production			Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
					ft	ft			ft	
					ft	ft			Diameter	
					ft	ft			in	
Max. Allowed Tub. Press		Max. Allowed Ann. Press	WH Connection		Treat Down	Displacement	Packer Type	Packer Depth		
psi		psi	5.5 8 RND		Casing	435.0 bbl		ft		
Service Instructions		Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.					
9 5/8" 36# Previous Casing: 1,887' 7 7/8" OH to TD OH Excess: 4% Top of Lead Cement: 2,500' Top of Tail Cement: 6,000' TD: 18,789' (7,531')		bbl	435.0 bbl	612.0 bbl	522.0 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			18777.0 ft					
Pipe Rotated		Pipe Reciprocated	Stage Tool Type		Stage Tool Depth		Tool Type			
<input type="checkbox"/>		<input type="checkbox"/>			ft					
No. Centralizers		Top Plugs	Bottom Plugs	Tool Depth						
		1	1	ft						
Cement Head Type		Stage Tool Depth			Tail Pipe Size					
Double		ft			in					
Job Scheduled For		Arrived on Location	Leave Location		Collar Type		Tail Pipe Depth			
May/15/2018 14:00		May/15/2018 15:00	May/16/2018 02:20		Float		ft			
					Collar Depth		Sqz. Total Vol.			
					18768.0 ft		bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
05/15/2018	20:57:57	14	0.2	8.38	0.0	Started Acquisition				
05/15/2018	20:58:03	14	0.2	8.38	0.0	Water Tested				
05/15/2018	20:58:05	14	0.2	8.38	0.0	Start Job				
05/15/2018	20:58:11	6	0.2	8.38	0.1	Pressure Test Lines				
05/15/2018	21:16:29	502	3.2	10.61	9.9	Start Pumping Spacer				
05/15/2018	21:16:37	517	3.2	10.61	10.3	MPE = 10.9 ppg				
05/15/2018	21:16:39	452	3.2	10.61	10.5	D232 = 74 gals				
05/15/2018	21:16:40	547	3.2	10.61	10.5	D235 = 74 gals				
05/15/2018	21:16:41	528	3.2	10.61	10.6	B485 = 144 lbs				
05/15/2018	21:35:09	211	2.0	11.03	87.7	Total Vol = 88 bbl				
05/15/2018	21:35:12	174	0.6	11.05	87.7	End Spacer				
05/15/2018	21:35:17	118	0.1	11.04	87.8	Drop Bottom Plug				
05/15/2018	21:48:39	475	3.1	11.33	91.2	Start Mixing Lead Slurry				
05/15/2018	21:48:42	456	3.1	11.35	91.4	Lead = 350 sks; 12.0 ppg				
05/15/2018	21:48:44	446	3.1	11.35	91.5	Yield = 1.85 cuft/sk				
05/15/2018	21:48:46	360	3.1	11.37	91.6	Mix Fluid = 7.69 gal/sk				
05/15/2018	21:48:47	457	3.1	11.37	91.6	Dry Sample Taken				
05/15/2018	22:04:08	710	6.3	11.80	154.0	Wet Sample Taken				
05/15/2018	22:18:49	8	0.3	12.82	196.7	Total Vol = 109 bbl				
05/15/2018	22:19:59	3	0.0	11.48	196.7	End Lead Slurry				
05/15/2018	22:30:27	124	3.3	13.08	199.7	Start Mixing Tail Slurry				

Well		Field		Job Start		Customer		Job Number	
Verde 13-10HZ 0631753796		Wattenberg		May/15/2018		ANADARKO PETROLEUM COMPANY (ED		E0ZP-00167	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
05/15/2018	22:30:31	110	3.3	13.07	199.9	Mix Water = 7.86 gal/sk			
05/15/2018	22:30:32	119	3.3	13.07	199.9	Dry Sample Taken			
05/15/2018	22:35:15	324	6.4	13.53	220.5	Wet Sample Taken			
05/15/2018	23:34:59	11	0.0	14.41	613.0	Total Vol = 416 bbl			
05/15/2018	23:35:02	11	0.0	14.41	613.0	End Tail Slurry			
05/15/2018	23:51:08	1	0.1	9.63	628.2	Drop Top Plug			
05/15/2018	23:51:10	2	0.1	9.58	628.2	Start Displacement			
05/15/2018	23:58:26	1015	8.2	8.47	672.3	1st 20 bbls Sugar			
05/15/2018	23:58:38	1073	8.2	8.47	673.9	Biocide			
05/16/2018	00:55:12	2964	0.0	8.41	1069.5	Bump Top Plug			
05/16/2018	00:55:13	2984	0.0	8.41	1069.5	End Displacement			
05/16/2018	00:55:38	3013	0.0	8.41	1069.5	Bumped @ 3000 psi			
05/16/2018	00:55:50	2980	0.0	8.41	1069.5	15 Min Casing Test			
05/16/2018	01:08:05	3229	0.0	8.41	1069.6	Bleed Off/Check Floats			
05/16/2018	01:09:32	-3	0.0	8.41	1069.6	5 bbls Back/Floats Holding			
05/16/2018	01:16:09	1985	0.0	8.41	1079.4	Wet Shoe @ 4400 psi			
05/16/2018	01:16:33	1870	0.0	8.41	1079.4	Pumped 3 bbls			

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.6			8.4	525.0	0.0	88.0	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
6044	-0	992	3000			bbl	lb/gal
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume	
%	523.4 bbl		435.0 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
Keith Conatser			Michael Lopez			<input type="checkbox"/>	<input checked="" type="checkbox"/>
						-	-