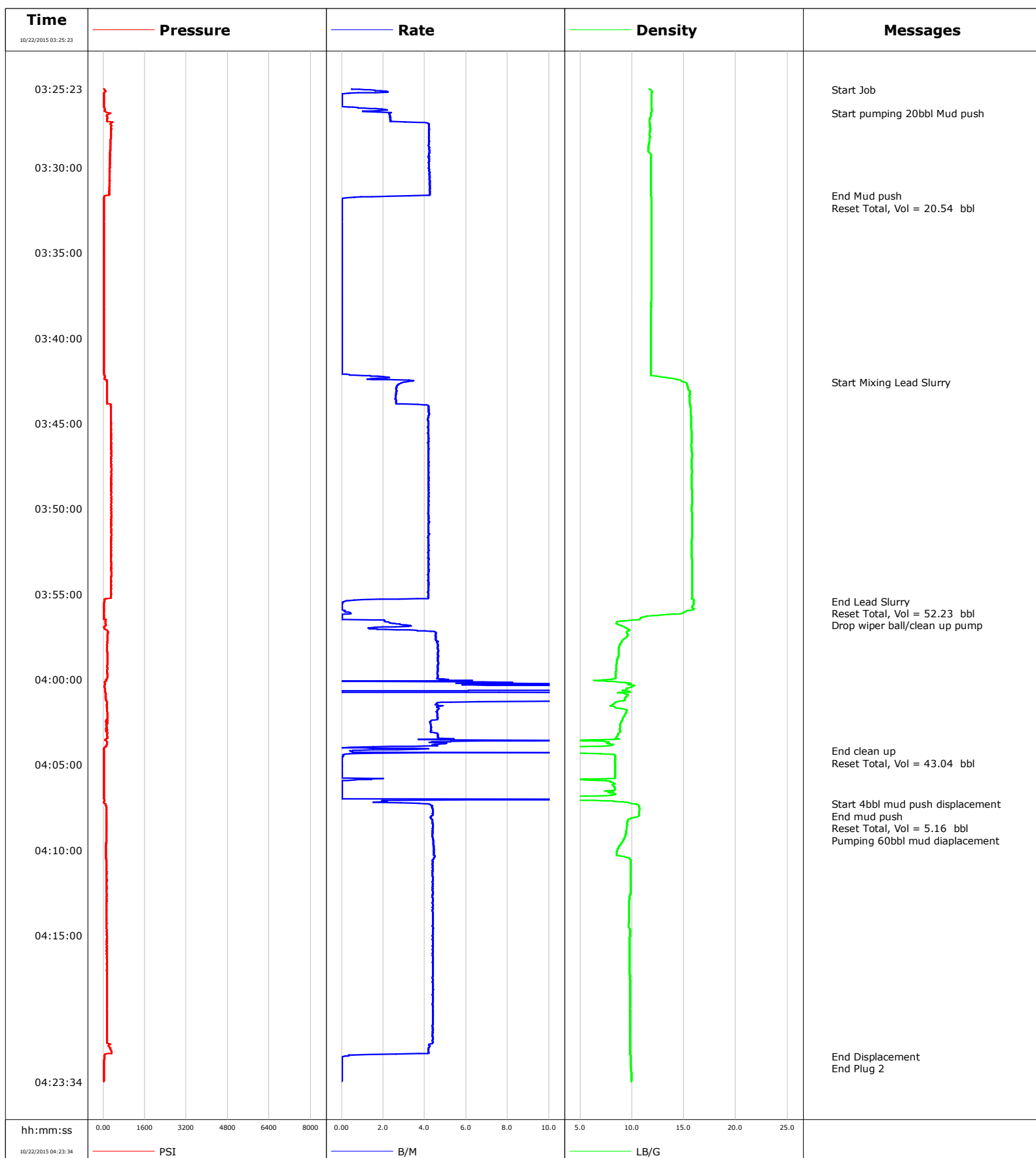


Well Thermo
Field Wattenberg
Engineer Chris Valerio/Taylor Baird
Country United States

Client Anadarko
SIR No. CWJN-01443
Job Type PA
Job Date 10-22-2015



Cementing Service Report

				Customer Anadarko			Job Number CWJN-01443										
Well Thermo 38N-33HZ			Location (legal)			Schlumberger Location			Job Start Oct/22/2015								
Field Wattenberg		Formation Name/Type Shale			Deviation deg		Bit Size 8.8 in		Well MD 4984.0 ft		Well TVD 4977.0 ft						
County Weld		State/Province Colorado			BHP psi		BHST 166 degF		BHCT 121 degF		Pore Press. Gradient lb/gal						
Well Master 0631652607		API/UWI 05123420970000															
Rig Name Xtreme #24		Drilled For Oil		Service Via Land		Casing/ Liner											
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread			
Offshore Zone		Well Class Old		Well Type Development		1883.0		9.6		36.0		J55		8RD			
						0.0		0.0		0.0							
Drilling Fluid Type Other		Max. Density 9.80 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe											
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type P&A				D		4184.0		5.0		19.5		S135		MIJ	
						T		4984.0		2.9		6.5		J55		8RD	
Max. Allowed Tub. Press 3500 psi		Max. Allowed Ann. Press psi		WH Connection 5" IF DP pin		Perforations/Open Hole											
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval			
Service Instructions Plug 2 24bbl Mud push @ 12# 53bbl 257sks CMT @ 15.8# 1.16 Yield 5.09 gal/sk water						ft		ft						ft			
						ft		ft						Diameter			
						ft		ft						in			
		Treat Down Drill Pipe		Displacement 64.6 bbl		Packer Type		Packer Depth ft									
		Tubing Vol. 78.9 bbl		Casing Vol. bbl		Annular Vol. bbl		Openhole Vol. bbl									
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools				Squeeze Job									
Lift Pressure psi				Shoe Type				Squeeze Type									
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth ft				Tool Type									
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type				Tool Depth ft							
Cement Head Type						Stage Tool Depth ft				Tail Pipe Size in							
Job Scheduled For Oct/21/2015 11:00		Arrived on Location Oct/21/2015 11:00		Leave Location Oct/22/2015 08:00		Collar Type				Tail Pipe Depth ft							
						Collar Depth ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message											
10/22/2015	03:25:23	35	0.2	11.67	442.7	Started Acquisition											
10/22/2015	03:25:25	45	0.5	11.67	442.7	Start Job											
10/22/2015	03:26:50	291	2.3	11.83	443.6	Start pumping 20bbl Mud push											
10/22/2015	03:30:23	256	4.2	11.80	457.6												
10/22/2015	03:31:41	46	3.3	11.80	463.1	End Mud push											
10/22/2015	03:31:44	41	1.0	11.87	463.2	Reset Total, Vol = 20.54 bbl											
10/22/2015	03:35:23	29	0.0	11.85	463.3												
10/22/2015	03:40:23	30	0.0	11.84	463.3												
10/22/2015	03:42:35	140	3.1	15.00	464.1	Start Mixing Lead Slurry											
10/22/2015	03:45:23	307	4.2	15.72	473.8												
10/22/2015	03:50:23	313	4.2	15.79	494.7												
10/22/2015	03:55:23	42	0.4	15.96	515.4												
10/22/2015	03:55:25	41	0.2	15.94	515.5	End Lead Slurry											
10/22/2015	03:55:38	38	0.0	15.93	515.5	Reset Total, Vol = 52.23 bbl											
10/22/2015	03:56:00	31	0.1	15.19	515.5	Drop wiper ball/clean up pump											
10/22/2015	04:00:23	57	10.8	10.16	532.3												
10/22/2015	04:04:12	26	0.4	0.11	558.5	End clean up											
10/22/2015	04:04:14	26	0.5	0.09	558.5	Reset Total, Vol = 43.04 bbl											
10/22/2015	04:05:23	35	0.0	8.35	558.9												
10/22/2015	04:07:18	83	4.2	10.29	560.2	Start 4bbl mud push displacement											
10/22/2015	04:08:01	125	4.3	10.64	563.3	End mud push											

Well			Field		Job Start		Customer		Job Number	
Thermo 38N-33HZ			Wattenberg		Oct/22/2015		Anadarko		CWJN-01443	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/22/2015	04:08:23	122	4.4	9.54	564.9	Pumping 60bbl mud diaplacement				
10/22/2015	04:10:23	100	4.5	9.26	573.7					
10/22/2015	04:15:23	134	4.4	9.76	595.7					
10/22/2015	04:20:23	144	4.4	9.79	617.6					
10/22/2015	04:22:06	48	0.1	9.85	624.5	End Displacement				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 4.1	N2	Mud	Maximum Rate 4.5		Total Slurry 53.0	Mud 0.0	Spacer 24.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 376	Final 32	Average 148	Bump Plug to	Breakdown	Type	Volume bbl		Density lb/gal			
Avg. N2 Percent %	Designed Slurry Volume 53.0 bbl		Displacement 60.0 bbl	Mix Water Temp 55 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl				
					Washed Thru Perfs <input type="checkbox"/>		To ft				
Customer or Authorized Representative Tobin Sinclair			Schlumberger Supervisor Chris Valerio/Taylor Baird			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>				
						-	-				