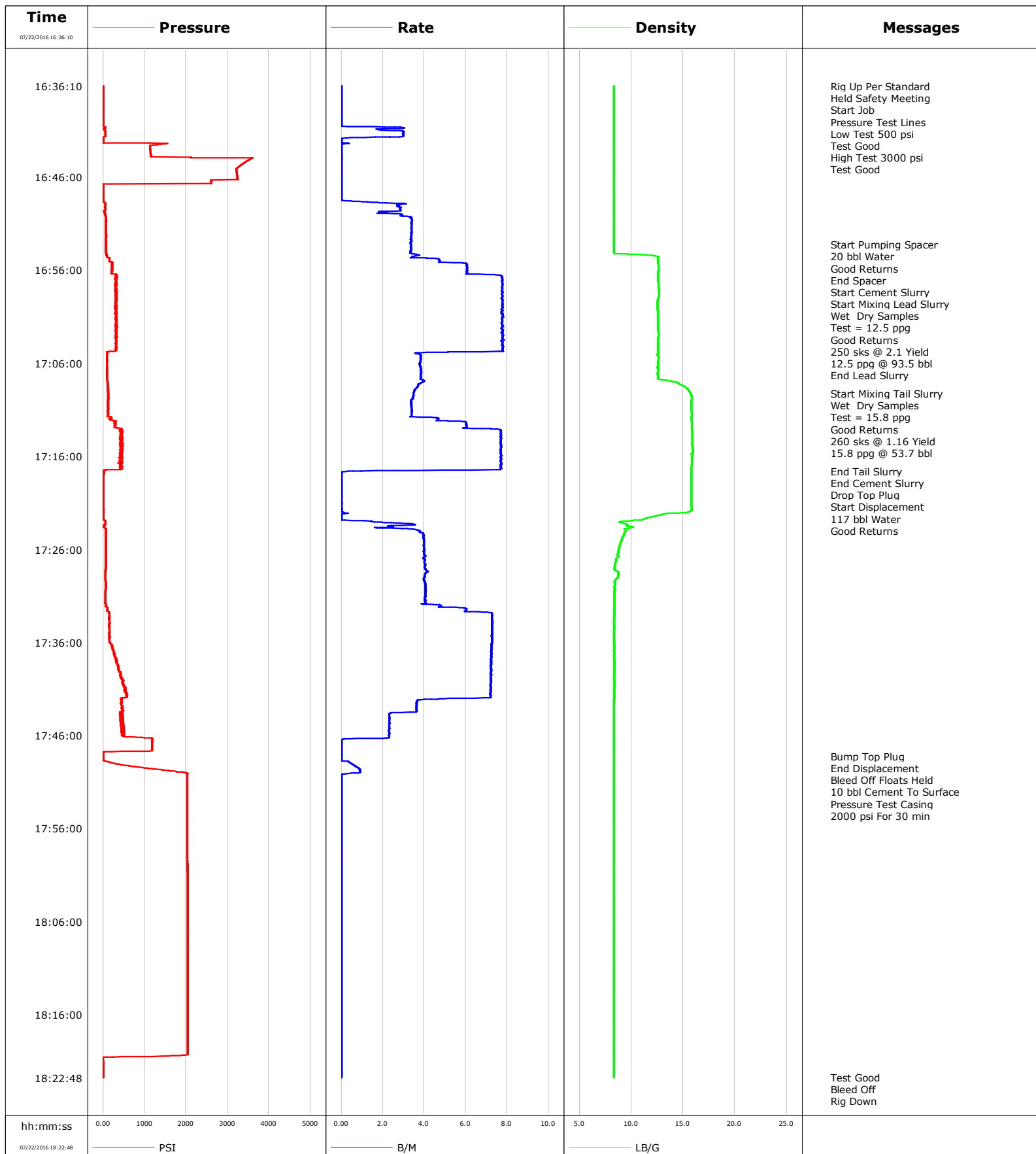


Well Land 15N-32HZ
Field Wattenberg
Engineer Moreland/Leiker
Country United States

Client Anadarko
SIR No. D5VO-01401
Job Type Surface
Job Date 07-22-2016



Cementing Service Report

				Customer Anadarko			Job Number D5VO-01401			
Well Land 15N-32HZ			Location (legal)			Schlumberger Location			Job Start Jul/22/2016	
Field Wattenberg		Formation Name/Type		Deviation deg		Bit Size in		Well MD ft		Well TVD ft
County Weld		State/Province Colorado		BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal
Well Master 0631662976		API/UWI								
Rig Name Precision 461		Drilled For Oil		Service Via Land		Casing/ Liner				
						Depth, ft		Size, in		Weight, lb/ft
Offshore Zone		Well Class New		Well Type Development		1565.0		9.6		36.0
						0.0		0.0		0.0
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe				
						T/D		Depth, ft		Size, in
Service Line Cementing		Job Type Surface								
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole				
						Top, ft		Bottom, ft		shot/ft
						ft		ft		
						ft		ft		
						Treat Down Casing		Displacement 119.0 bbl		Packer Type
										Packer Depth ft
						Tubing Vol. bbl		Casing Vol. 118.0 bbl		Annular Vol. 133.6 bbl
										Openhole Vol. 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 1565.0 ft		Tool Type		
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type		Tool Depth ft		
Cement Head Type Single						Stage Tool Depth ft		Tail Pipe Size in		
Job Scheduled For Jul/22/2016		Arrived on Location Jul/22/2016		Leave Location Jul/22/2016		Collar Type Float		Tail Pipe Depth ft		
						Collar Depth 1515.0 ft		Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
07/22/2016	16:36:10	3	0.0	8.32	0.0					
07/22/2016	16:36:11	4	0.0	8.32	0.0	Rig Up Per Standard				
07/22/2016	16:36:12	4	0.0	8.32	0.0	Start Job				
07/22/2016	16:36:14	3	0.0	8.32	0.0	Pressure Test Lines				
07/22/2016	16:36:15	3	0.0	8.32	0.0	Low Test 500 psi				
07/22/2016	16:38:10	4	0.0	8.32	0.0					
07/22/2016	16:40:10	-0	0.0	8.32	0.0					
07/22/2016	16:42:10	7	0.0	8.33	3.2					
07/22/2016	16:44:10	3509	0.0	8.32	3.2					
07/22/2016	16:46:10	3243	0.0	8.33	3.2					
07/22/2016	16:48:10	2	0.0	8.33	3.2					
07/22/2016	16:50:10	60	2.9	8.33	7.3					
07/22/2016	16:52:10	71	3.4	8.34	14.0					
07/22/2016	16:53:14	70	3.4	8.34	17.6	Start Pumping Spacer				
07/22/2016	16:53:15	69	3.4	8.34	17.7	20 bbl Water				
07/22/2016	16:54:10	71	3.3	8.36	20.8					
07/22/2016	16:56:10	195	6.1	12.60	30.9					
07/22/2016	16:56:29	320	7.4	12.59	32.9	End Spacer				
07/22/2016	16:56:38	330	7.7	12.58	34.0	Start Cement Slurry				
07/22/2016	16:56:39	349	7.7	12.58	34.2	Start Mixing Lead Slurry				
07/22/2016	16:56:40	309	7.7	12.58	34.3	Wet Dry Samples				

Well			Field	Job Start		Customer		Job Number	
Land 15N-32HZ			Wattenberg		Jul/22/2016		Anadarko		D5VO-01401
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
07/22/2016	16:58:10	295	7.7	12.67	45.9				
07/22/2016	17:00:10	304	7.7	12.55	61.4				
07/22/2016	17:02:10	308	7.7	12.60	77.0				
07/22/2016	17:04:10	323	7.8	12.58	92.5				
07/22/2016	17:05:43	97	3.8	12.58	100.8	End Lead Slurry			
07/22/2016	17:06:10	94	3.8	12.58	102.5				
07/22/2016	17:08:10	111	3.8	14.57	110.2				
07/22/2016	17:09:14	123	3.5	15.73	114.1	Start Mixing Tail Slurry			
07/22/2016	17:09:15	124	3.5	15.73	114.2	Wet Dry Samples			
07/22/2016	17:10:10	120	3.4	15.78	117.3				
07/22/2016	17:12:10	272	4.8	15.82	124.5				
07/22/2016	17:14:10	427	7.7	15.87	138.4				
07/22/2016	17:16:10	414	7.7	15.85	153.8				
07/22/2016	17:17:34	17	1.0	15.81	164.2	End Tail Slurry			
07/22/2016	17:17:35	17	1.0	15.81	164.2	End Cement Slurry			
07/22/2016	17:17:36	17	0.6	15.80	164.2	Drop Top Plug			
07/22/2016	17:17:37	17	0.3	15.80	164.2	Start Displacement			
07/22/2016	17:17:38	17	0.2	15.80	164.2	117 bbl Water			
07/22/2016	17:18:10	11	0.0	15.78	164.2				
07/22/2016	17:20:10	9	0.0	15.79	164.2				
07/22/2016	17:22:10	11	0.1	13.32	164.3				
07/22/2016	17:24:10	69	3.8	9.38	167.8				
07/22/2016	17:26:10	65	4.0	8.77	175.8				
07/22/2016	17:28:10	58	4.1	8.39	183.8				
07/22/2016	17:30:10	62	4.0	8.39	191.9				
07/22/2016	17:32:10	60	4.8	8.37	200.2				
07/22/2016	17:34:10	143	7.3	8.35	213.9				
07/22/2016	17:36:10	188	7.2	8.35	228.5				
07/22/2016	17:38:10	320	7.2	8.35	242.9				
07/22/2016	17:40:10	455	7.2	8.35	257.4				
07/22/2016	17:42:10	449	3.8	8.35	271.4				
07/22/2016	17:44:10	416	2.3	8.35	277.8				
07/22/2016	17:46:10	619	2.3	8.35	282.4				
07/22/2016	17:48:10	3	0.0	8.35	282.8				
07/22/2016	17:48:13	4	0.0	8.35	282.8	Bump Top Plug			
07/22/2016	17:48:14	4	0.0	8.35	282.8	Bleed Off Floats Held			
07/22/2016	17:48:15	4	0.0	8.35	282.8	Pressure Test Casing			
07/22/2016	17:50:10	2032	0.1	8.35	283.8				
07/22/2016	17:52:10	2028	0.0	8.35	283.8				
07/22/2016	17:54:10	2029	0.0	8.35	283.8				
07/22/2016	17:56:10	2031	0.0	8.35	283.8				
07/22/2016	17:58:10	2032	0.0	8.35	283.8				
07/22/2016	18:00:10	2033	0.0	8.35	283.8				
07/22/2016	18:02:10	2035	0.0	8.35	283.8				
07/22/2016	18:04:10	2036	0.0	8.35	283.8				
07/22/2016	18:06:10	2037	0.0	8.35	283.8				
07/22/2016	18:08:10	2039	0.0	8.35	283.8				
07/22/2016	18:10:10	2040	0.0	8.35	283.8				
07/22/2016	18:12:10	2041	0.0	8.34	283.8				
07/22/2016	18:14:10	2043	0.0	8.34	283.8				
07/22/2016	18:16:10	2043	0.0	8.34	283.8				
07/22/2016	18:18:10	2044	0.0	8.34	283.8				
07/22/2016	18:20:10	2045	0.0	8.34	283.8				
07/22/2016	18:22:10	1	0.0	8.34	283.8				

Well Land 15N-32HZ	Field Wattenberg	Job Start Jul/22/2016	Customer Anadarko	Job Number D5VO-01401
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry 4.9	N2	Mud	Maximum Rate 7.8	Total Slurry 147.0	Mud 0.0	Spacer 20.0	N2					
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 3607	Final 1	Average 828	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal					
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl	Displacement 117.0 bbl	Mix Water Temp 59 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume bbl						
				Washed Thru Perfs <input type="checkbox"/>		To ft						
Customer or Authorized Representative			Schlumberger Supervisor Moreland/Leiker			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>					
						-	-					