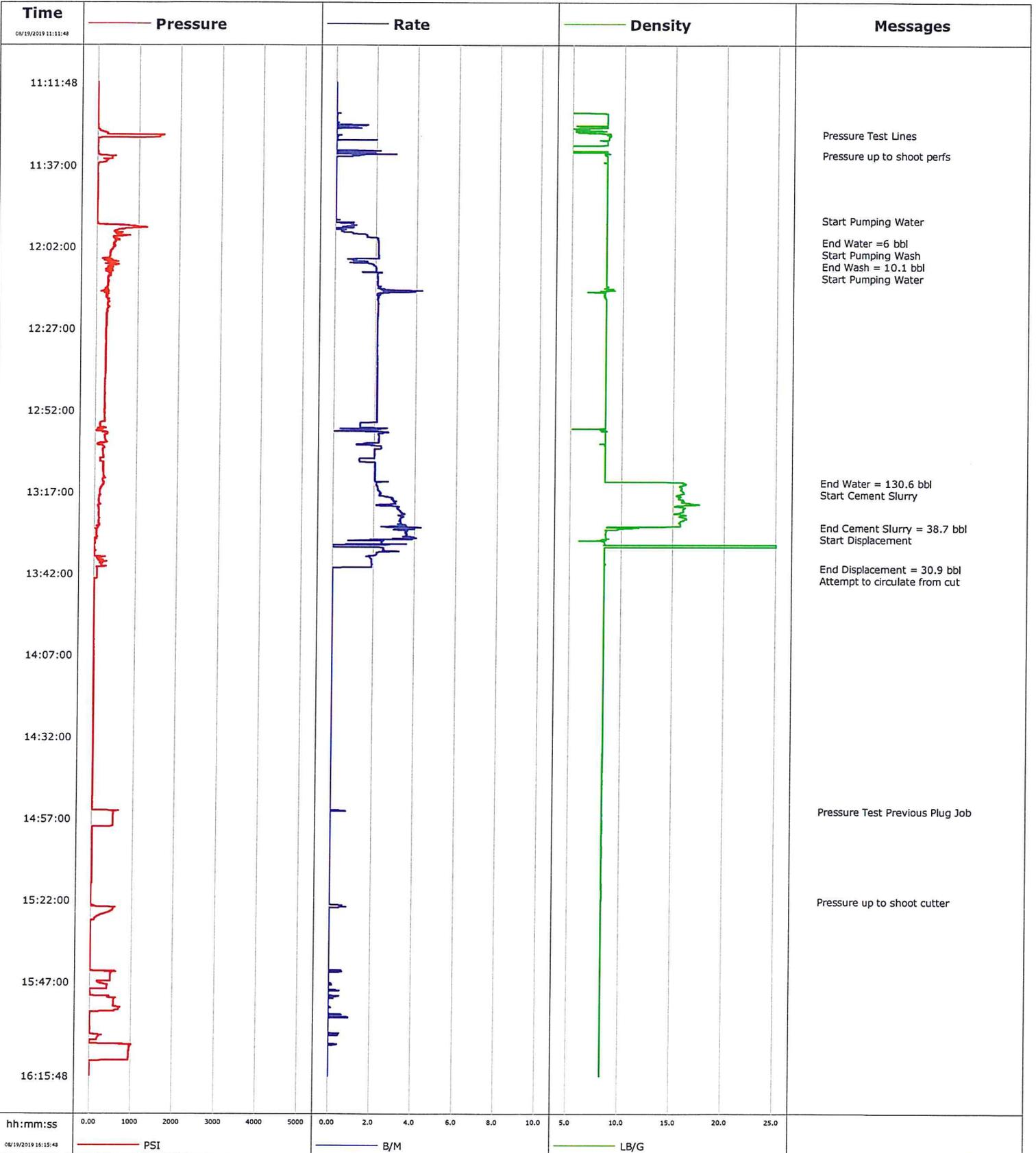


Well	Gruen 22-33	Client	Noble
Field	DJ	SIR No.	EA5Z-00024
Engineer	Richard White	Job Type	P A Rigless
Country	United States	Job Date	08-19-2019



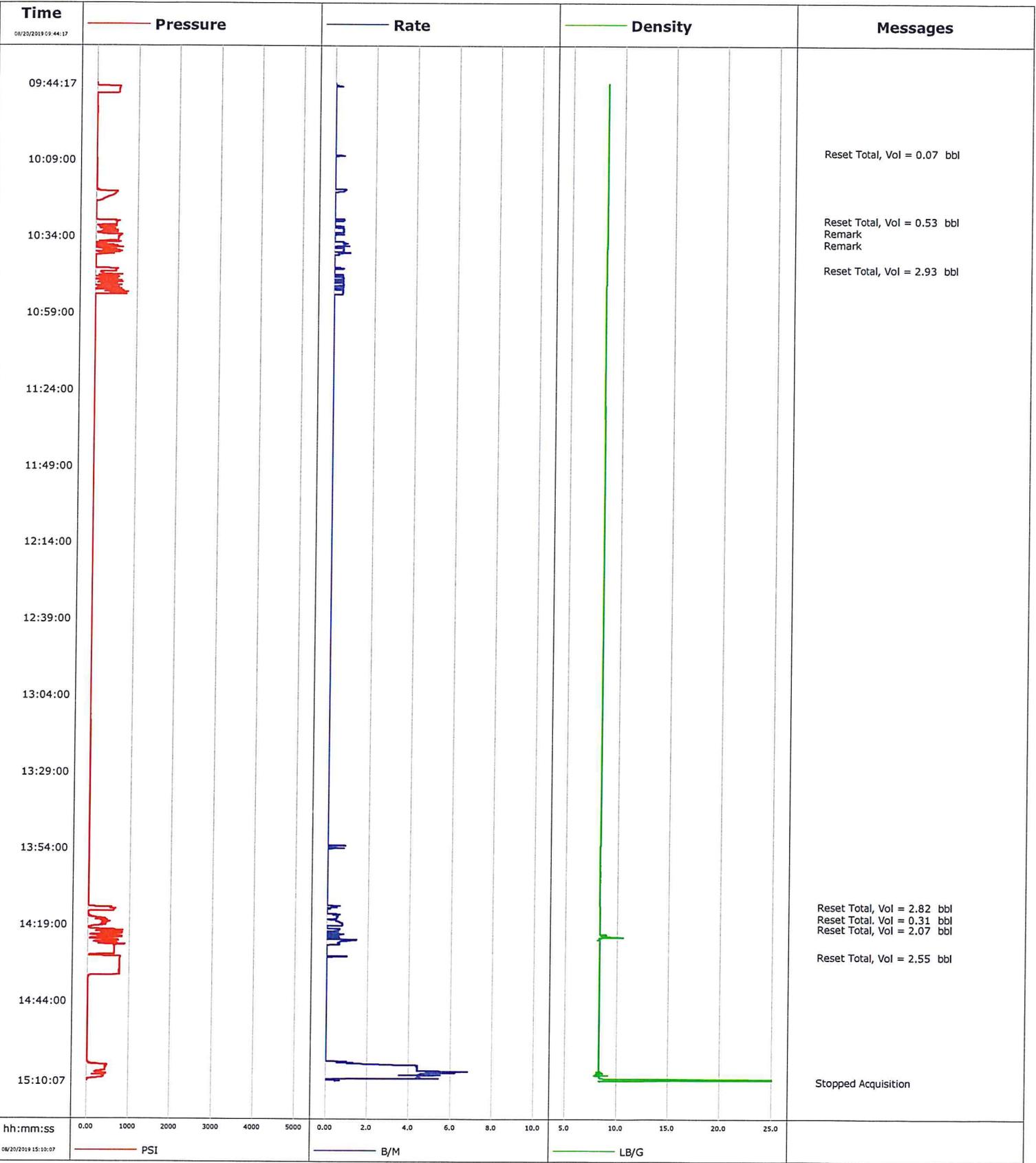
				Customer Noble			Job Number EA5Z-00024										
Well Gruen 22-33			Location (legal) CWY			Schlumberger Location Cheyenne			Job Start Aug/19/2019								
Field DJ		Formation Name/Type			Deviation deg		Bit Size in		Well MD 2500.0 ft		Well TVD 2500.0 ft						
County Weld		State/Province Colorado			BHP psi		BHST 165 degF		BHCT 125 degF		Pore Press. Gradient lb/gal						
Well Master 630568420		API/UWI															
Rig Name Rigless		Drilled For Oil and Gas		Service Via Land		Casing/Liner											
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread			
Offshore Zone		Well Class Old		Well Type Other		2501.0		4.5		11.6		n/a		n/a			
						0.0		0.0		0.0							
Drilling Fluid Type Other		Max. Density 8.40 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 Rigless															
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 2 3/8" 4.7# T/S		Perforations/Open Hole											
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft			
Service Instructions Pressure Test/ Well circulation/ 2501 ft courtesy Plug Plug From 2501 ft to 1992 ft Pump 6 bbl water pump 10 bbl cewash Pump 130 bbl Fresh water Pump 38 bbl cmt @15.8ppg 1.16 y 185 sks 5.13 gps Pump 30.8 bbl Disp. Attempt to get circulation @ 992 ft						ft		ft						Diameter in			
						ft		ft						in			
						Treat Down Casing		Displacement 30.8 bbl		Packer Type		Packer Depth ft					
						Tubing Vol. 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 Aug/19/2019		Arrived on Location Aug/19/2019		Leave Location Aug/19/2019		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											
08/19/2019	11:11:48	6	0.0	0.05	0.0	Started Acquisition											
08/19/2019	11:27:26	229	0.0	8.66	0.5	Pressure Test Lines											
08/19/2019	11:33:40	18	2.9	8.07	0.3	Pressure up to shoot perfs											
08/19/2019	11:53:41	9	0.0	8.36	1.2	Start Pumping Water											
08/19/2019	12:00:21	446	2.1	8.36	6.1	End Water = 6 bbl											
08/19/2019	12:00:22	434	2.1	8.36	0.0	Start Pumping Wash											
08/19/2019	12:05:06	311	2.1	8.36	10.0	End Wash = 10.1 bbl											
08/19/2019	12:05:07	319	2.1	8.36	0.0	Start Pumping Water											
08/19/2019	13:13:56	205	2.2	15.48	140.6	End Water = 130.6 bbl											
08/19/2019	13:13:57	207	2.2	15.68	0.0	Start Cement Slurry											
08/19/2019	13:27:37	59	2.5	12.70	38.6	End Cement Slurry = 38.7 bbl											
08/19/2019	13:27:38	62	2.4	11.10	0.0	Start Displacement											
08/19/2019	13:40:14	72	0.0	8.36	30.9	End Displacement = 30.9 bbl											
08/19/2019	13:43:49	19	0.0	8.36	0.0	Attempt to circulate from cut											
08/19/2019	14:54:34	47	0.5	8.34	0.0	Pressure Test Previous Plug Job											

Well Gruen 22-33	Field DJ	Job Start Aug/19/2019	Customer Noble	Job Number EA5Z-00024
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 1.9	N2	Mud	Maximum Rate 4.3	Total Slurry 230.6	Mud 0.0	Spacer 0.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 1596	Final 9	Average 146	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl	Displacement 0.0 bbl	Mix Water Temp degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative Chris H.			Schlumberger Supervisor Richard White		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
					-		-	

Well	Gruen 22-33	Client	Noble
Field	DJ	SIR No.	1234
Engineer	Richard White	Job Type	P A Circ. attempt
Country	United States	Job Date	08-21-2019



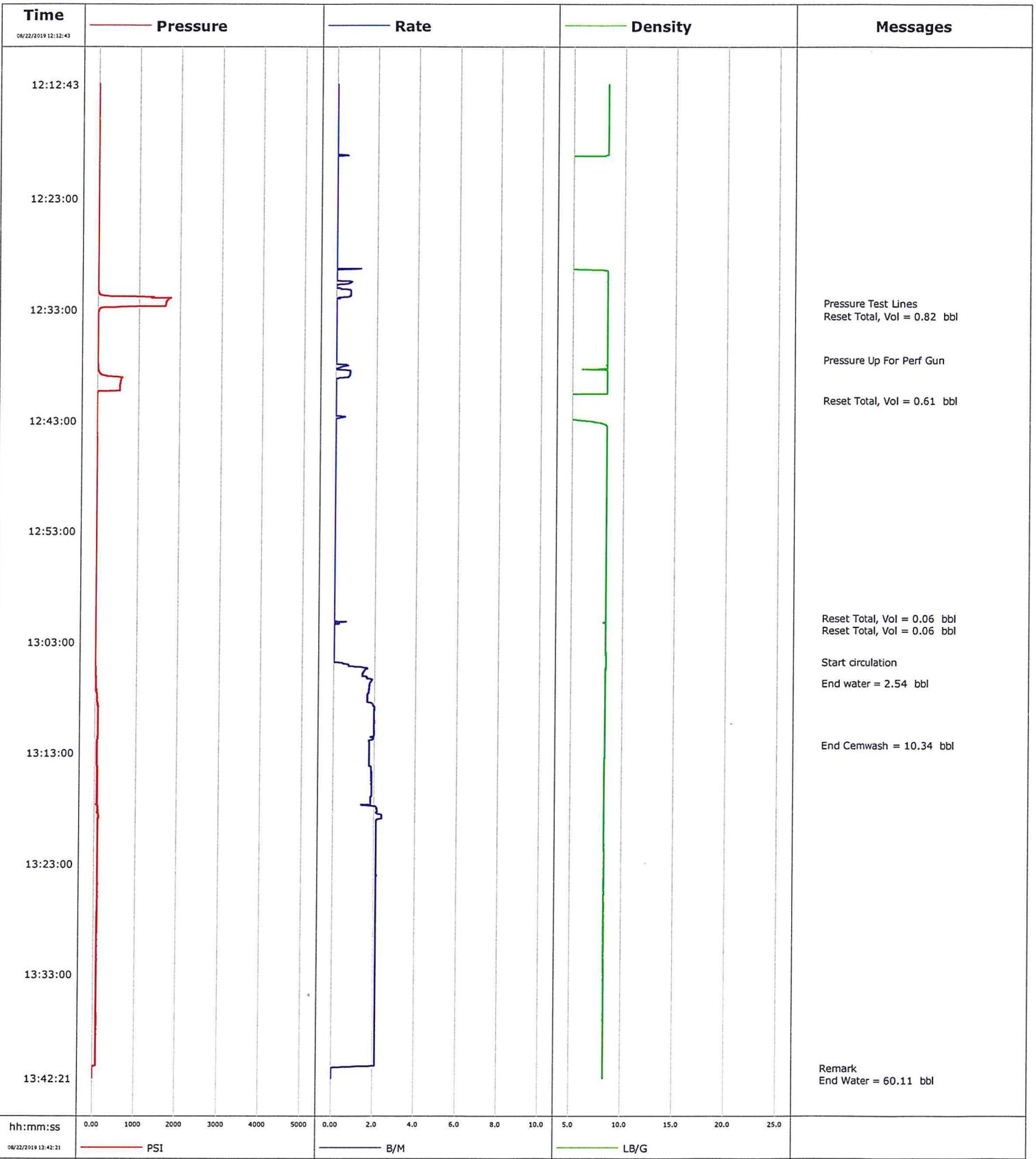
				Customer Noble			Job Number 1234				
Well Gruen 22-33			Location (legal) CWY			Schlumberger Location Cheyenne			Job Start Aug/21/2019		
Field DJ		Formation Name/Type			Deviation deg		Bit Size in		Well MD 992.0 ft		Well TVD 992.0 ft
County Weld		State/Province Colorado			BHP psi		BHST 90 degF		BHCT 70 degF		Pore Press. Gradient lb/gal
Well Master 1234		API/UWI									
Rig Name Rigless		Drilled For Oil and Gas		Service Via Land		Casing/Liner					
						Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone		Well Class Old		Well Type Other		992.0	4.5	11.6	n/a	n/a	
						0.0	0.0	0.0			
Drilling Fluid Type Other		Max. Density 8.40 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 Circ. attempt									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 2 3/8" 4.7# T/S		Perforations/Open Hole					
						Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval ft	
Service Instructions Shot 2nd jet cutter and attempt to circulate @ 992 ft						ft	ft				
						ft	ft			Diameter in	
						ft	ft				
						Treat Down Casing		Displacement bbl		Packer Type Packer Depth ft	
						Tubing Vol. 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 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 Aug/21/2019		Arrived on Location Aug/21/2019		Leave Location Aug/21/2019		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					
08/20/2019	09:44:17	0	0.0	8.36	0.0	Started Acquisition					
08/20/2019	10:06:28	2	0.0	8.36	0.1	Reset Total, Vol = 0.07 bbl					
08/20/2019	10:28:32	9	0.0	8.36	0.5	Reset Total, Vol = 0.53 bbl					
08/20/2019	10:30:21	496	0.0	8.36	0.2	Remark					
08/20/2019	10:35:19	548	0.0	8.35	1.1	Remark					
08/20/2019	10:44:27	13	0.2	8.34	2.9	Reset Total, Vol = 2.93 bbl					
08/20/2019	14:12:51	15	0.0	8.30	2.8	Reset Total, Vol = 2.82 bbl					
08/20/2019	14:15:26	16	0.0	8.32	0.3	Reset Total, Vol = 0.31 bbl					
08/20/2019	14:20:12	29	0.0	8.34	2.1	Reset Total, Vol = 2.07 bbl					
08/20/2019	14:29:09	55	0.0	8.33	2.6	Reset Total, Vol = 2.55 bbl					

Well Gruen 22-33	Field DJ	Job Start Aug/21/2019	Customer Noble	Job Number 1234
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final 0	Average	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl		Displacement bbl	Mix Water Temp degF	Cement Circulated to Surface?	<input type="checkbox"/>	Volume bbl	
Customer or Authorized Representative Tyson H					Schlumberger Supervisor Richard White	Washed Thru Perfs	<input type="checkbox"/>	To ft
					Circulation Lost	<input type="checkbox"/>	Job Completed	<input type="checkbox"/>
					-		-	

Well	Gruen 22-33	Client	Noble
Field	DJ	SIR No.	EA5Z-00024
Engineer	Richard White	Job Type	Perf and circulate
Country	United States	Job Date	08-23-2019



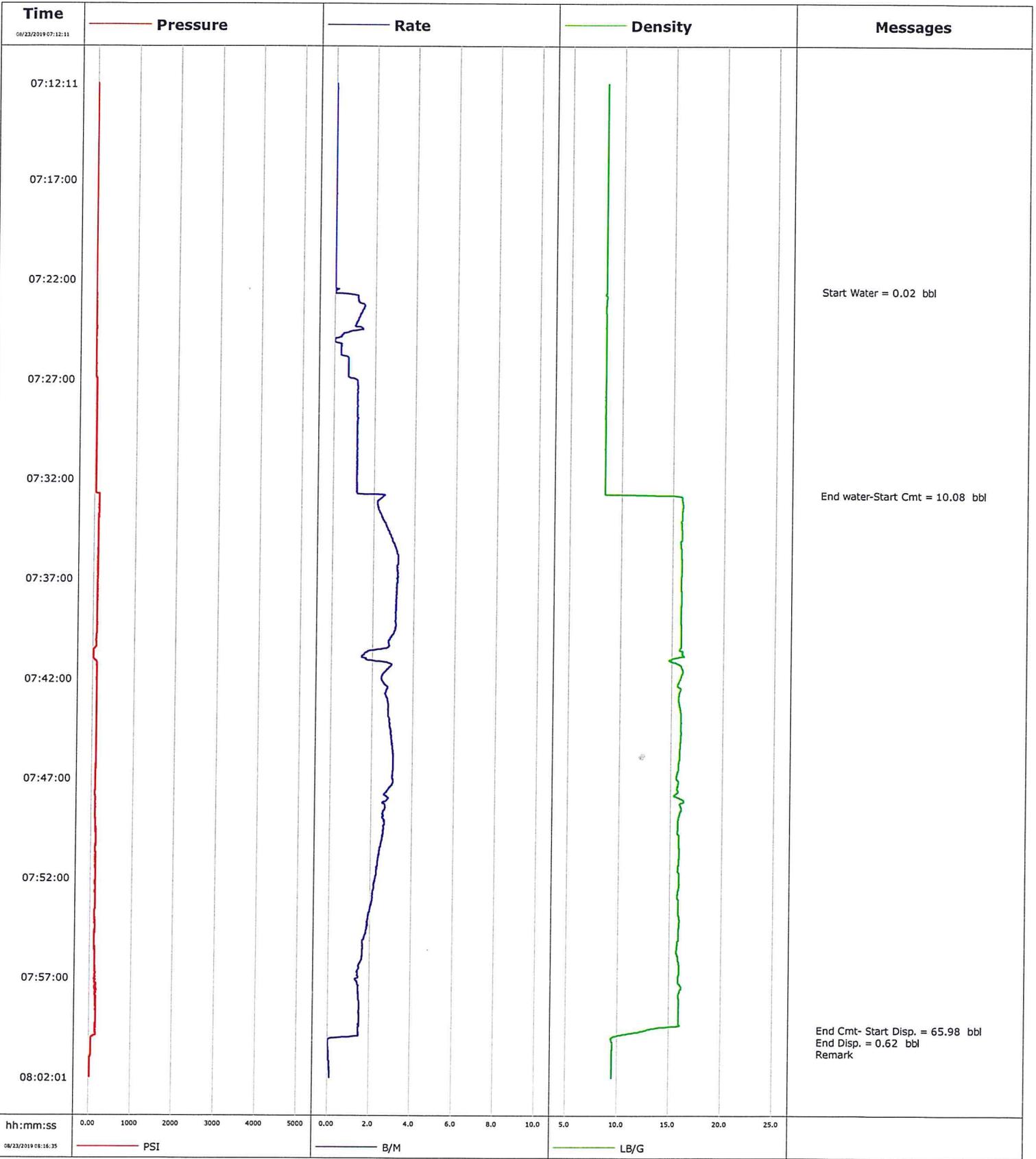
				Customer Noble			Job Number EA5Z-00024				
Well Gruen 22-33			Location (legal) CWY			Schlumberger Location Cheyenne			Job Start Aug/23/2019		
Field DJ		Formation Name/Type			Deviation deg		Bit Size in		Well MD 977.0 ft		Well TVD 977.0 ft
County Weld		State/Province Colorado			BHP psi		BHST 90 degF		BHCT 70 degF		Pore Press. Gradient lb/gal
Well Master 1234		API/UWI									
Rig Name Rigless		Drilled For Oil and Gas		Service Via Land		Casing/Liner					
						Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone		Well Class Old		Well Type Other		977.0	4.5	11.6	n/a	n/a	
						0.0	0.0	0.0			
Drilling Fluid Type Other		Max. Density 8.40 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line Cementing		Job Type Perf and circulate									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 2 3/8" 4.7# T/S		Perforations/Open Hole					
						Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval ft	
Service Instructions Perf and Circulation Circulate @ 977 ft Pump 10 bbl cemwash Pump 60 bbl Fresh water						ft	ft			Diameter in	
						ft	ft				
						Treat Down Casing		Displacement bbl		Packer Type Packer Depth ft	
						Tubing Vol. 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 Aug/23/2019		Arrived on Location Aug/23/2019		Leave Location Aug/23/2019		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					
08/22/2019	12:12:43	1	0.0	8.36	0.0	Started Acquisition					
08/22/2019	12:32:23	1653	0.0	8.39	0.8	Pressure Test Lines					
08/22/2019	12:33:31	8	0.0	8.39	0.8	Reset Total, Vol = 0.82 bbl					
08/22/2019	12:37:29	10	0.0	8.39	0.0	Pressure Up For Perf Gun					
08/22/2019	12:41:08	-4	0.0	0.07	0.6	Reset Total, Vol = 0.61 bbl					
08/22/2019	13:00:49	1	0.0	8.37	0.1	Reset Total, Vol = 0.06 bbl					
08/22/2019	13:00:59	2	0.0	8.37	0.0	Reset Total, Vol = 0.06 bbl					
08/22/2019	13:04:46	2	0.0	8.40	0.1	Start circulation					
08/22/2019	13:06:42	31	1.8	8.36	2.5	End water = 2.54 bbl					
08/22/2019	13:12:15	67	1.8	8.35	10.3	End Cemwash = 10.34 bbl					
08/22/2019	13:41:25	-6	0.1	8.35	60.1	Remark					

Well Gruen 22-33	Field DJ	Job Start Aug/23/2019	Customer Noble	Job Number EA5Z-00024
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Post Job Summary

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

Well	Gruen 22-33	Client	Noble
Field	DJ	SIR No.	EA5Z-00024
Engineer	Richard White	Job Type	P A Surface Plug
Country	United States	Job Date	08-23-2019





Cementing Service Report

				Customer Noble				Job Number EA5Z-00024									
Well Gruen 22-33				Location (legal) CWY				Schlumberger Location Cheyenne				Job Start Aug/23/2019					
Field DJ		Formation Name/Type				Deviation deg		Bit Size in		Well MD 977.0 ft		Well TVD 977.0 ft					
County Weld		State/Province Colorado				BHP psi		BHST 80 degF		BHCT 70 degF		Pore Press. Gradient lb/gal					
Well Master 1234		API/UWI															
Rig Name Rigless		Drilled For Oil and Gas		Service Via Land		Casing/Liner											
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread			
Offshore Zone		Well Class Old		Well Type Other		977.0		4.5		11.6		n/a		n/a			
						0.0		0.0		0.0							
Drilling Fluid Type Other		Max. Density 8.40 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 Surface Plug															
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection		Perforations/Open Hole											
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft			
Service Instructions Surface Plug Plug From 977 ft to surface 10 bbl water 66 bbl cmt @ 15.8ppg 1.16 yield 322 sks 5.13 gps 0.5 bbl Disp.						ft		ft						Diameter in			
						ft		ft									
						Treat Down Casing		Displacement 0.5 bbl		Packer Type		Packer Depth ft					
						Tubing Vol. 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 Aug/23/2019		Arrived on Location Aug/23/2019		Leave Location Aug/23/2019		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											
08/23/2019	07:12:11	0	0.0	8.36	0.0	Started Acquisition											
08/23/2019	07:22:32	2	0.1	8.36	0.0	Start Water = 0.02 bbl											
08/23/2019	07:32:46	121	2.1	9.29	10.0	End water-Start Cmt = 10.08 bbl											
08/23/2019	07:59:35	150	1.5	13.11	66.0	End Cmt- Start Disp. = 65.98 bbl											
08/23/2019	08:00:11	56	0.0	9.47	0.6	End Disp. = 0.62 bbl											
08/23/2019	08:00:14	55	0.0	9.52	0.0	Remark											
08/23/2019	08:16:35	24	0.0	0.07	22.1	Stopped Acquisition											

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final 0	Average	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl		Displacement bbl	Mix Water Temp degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume bbl	
					Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative Tyson H.			Schlumberger Supervisor Richard White			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>
						-	-