

## Cementing Service Report

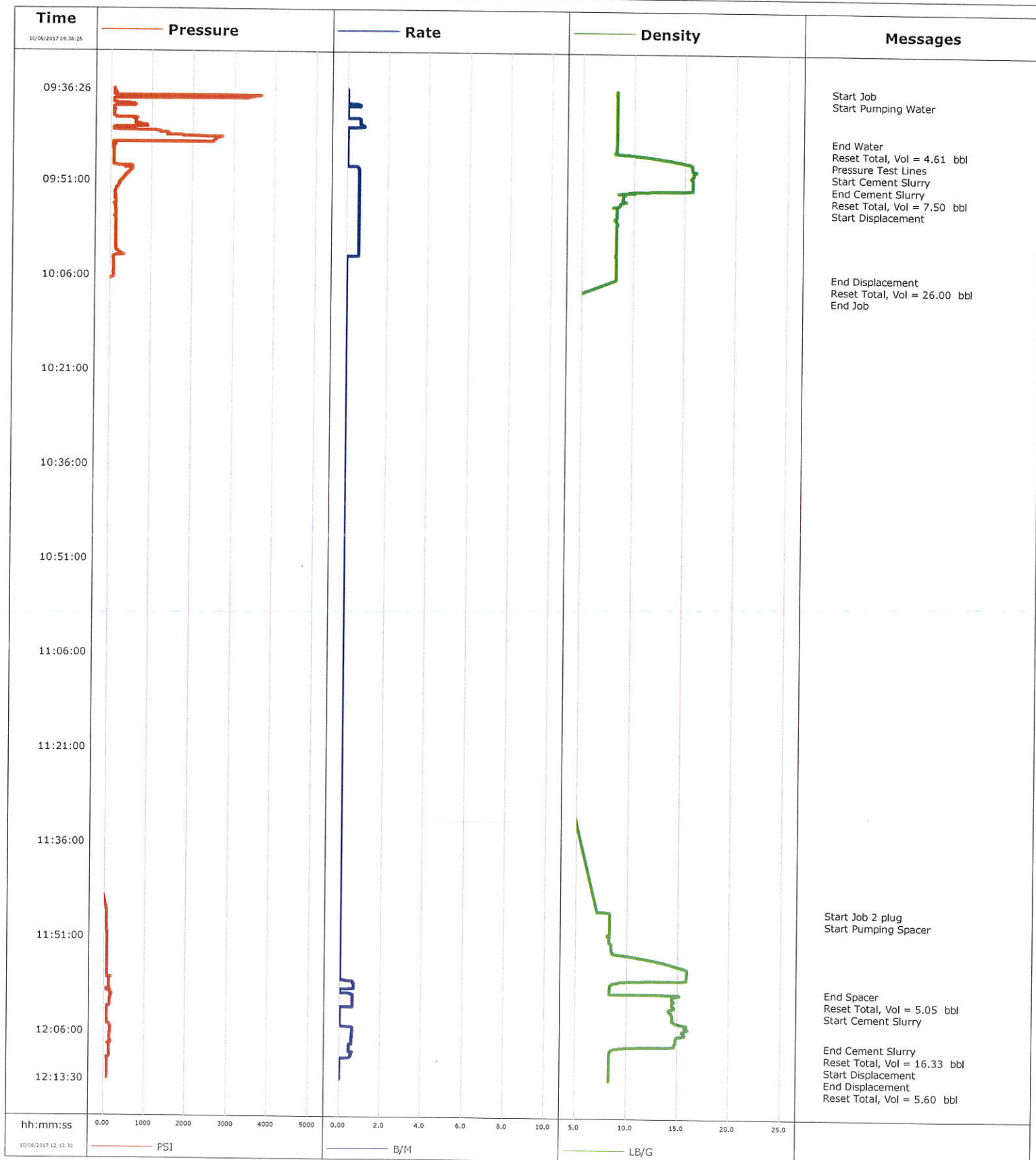
				Customer NOBLE				Job Number 2587895					
Well BERG-1 0631737236				Location (legal) WELD				Schlumberger Location CHEYENNE				Job Start Oct/06/2017	
Field DJ		Formation Name/Type				Deviation deg		Bit Size in		Well MD 7165.0 ft		Well TVD 7165.0 ft	
County WELD		State/Province Colorado				BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal	
Well Master		API/UWI 0512311280											
Rig Name LEED# 714		Drilled For Oil & Gas		Service Via Land		Casing/Liner							
						Depth, ft		Size, in		Weight, lb/ft		Grade	
						7165.0		4.5		11.6		N/A	
						0.0		0.0		0.0			
Offshore Zone N/A		Well Class Old		Well Type Workover									
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe							
						T/D		Depth, ft		Size, in		Weight, lb/ft	
						T		7165.0		2.4		4.7	
						T		1441.0		2.4		4.7	
Service Line Cementing		Job Type PLUG ABANDON				Perforations/Open Hole							
						Top, ft		Bottom, ft		shot/ft		No. of Shots	
						ft		ft				Total Interval ft	
						ft		ft				Diameter in	
						ft		ft					
						Treat Down Tubing		Displacement 26.0 bbl		Packer Type		Packer Depth ft	
						Tubing Vol. 7.3 bbl		Casing Vol. bbl		Annular Vol. bbl		Openhole Vol. bbl	
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection									
Service Instructions		<p>1st Plug 35 sks 1.17ft3/sk 6.04gla/sk @ 15.8ppg CMT= 7.3 bbls est. TOC= 6694 ft Disp. =25.9 bbls</p> <p>2nd Plug 80 sks 1.17ft3/sk 6.04gla/sk @15.8ppg CMT=16.6 bbls Disp.=5.5 bbls est. TOC 1441 ft</p>											
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				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/06/2017 09:00		Arrived on Location Oct/06/2017 09:00		Leave Location Oct/06/2017 13:00		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							
10/06/2017	09:36:26	86	0.0	8.33	0.0								
10/06/2017	09:36:27	86	0.0	8.33	0.0	Start Job							
10/06/2017	09:36:28	86	0.0	8.33	0.0	Start Pumping Water							
10/06/2017	09:41:27	608	0.6	8.31	2.8								
10/06/2017	09:44:22	2572	0.0	8.31	5.5	End Water							
10/06/2017	09:44:23	2567	0.0	8.31	5.5	Reset Total, Vol = 4.61 bbl							
10/06/2017	09:44:29	2544	0.0	8.31	5.5	Pressure Test Lines							
10/06/2017	09:45:11	63	0.0	8.31	0.0	Start Cement Slurry							
10/06/2017	09:46:28	77	0.0	9.02	0.0								
10/06/2017	09:51:29	228	0.6	15.75	5.5								
10/06/2017	09:52:00	196	0.6	15.74	6.6	End Cement Slurry							
10/06/2017	09:52:12	159	0.6	15.74	7.0	Reset Total, Vol = 7.50 bbl							
10/06/2017	09:53:00	118	0.6	8.97	8.8	Start Displacement							
10/06/2017	09:56:30	123	0.6	8.35	17.4								
10/06/2017	10:01:31	141	0.6	8.31	29.8								
10/06/2017	10:05:57	86	0.0	8.31	33.1	End Displacement							
10/06/2017	10:05:58	86	0.0	8.31	33.1	Reset Total, Vol = 26.00 bbl							
10/06/2017	10:06:00	86	0.0	8.31	33.1	End Job							
10/06/2017	11:46:49	63	0.0	8.20	33.1	Start Job 2 plug							
10/06/2017	11:46:52	63	0.0	8.28	33.1								
10/06/2017	11:46:58	63	0.0	8.31	33.1	Start Pumping Spacer							

Well			Field	Job Start		Customer	Job Number
BERG-1 0631737236			DJ	Oct/06/2017		NOBLE	2587895
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/06/2017	11:56:54	72	0.0	15.84	33.1		
10/06/2017	11:59:32	68	0.0	8.35	38.2	End Spacer	
10/06/2017	11:59:33	68	0.0	8.35	38.2	Reset Total, Vol = 5.05 bbl	
10/06/2017	11:59:40	68	0.0	8.35	38.2	Start Cement Slurry	
10/06/2017	12:01:55	155	0.6	14.65	43.7		
10/06/2017	12:06:56	155	0.6	14.81	48.7		
10/06/2017	12:08:02	109	0.5	14.60	51.5	End Cement Slurry	
10/06/2017	12:08:03	136	0.5	14.65	51.5	Reset Total, Vol = 16.33 bbl	
10/06/2017	12:08:04	146	0.5	14.59	51.5	Start Displacement	
10/06/2017	12:10:35	91	0.0	8.33	57.1	End Displacement	
10/06/2017	12:10:36	91	0.0	8.33	57.1	Reset Total, Vol = 5.60 bbl	

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 4.1	N2	Mud	Maximum Rate 10.5	Total Slurry 16.6	Mud 0.0	Spacer 5.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 200	Final 86	Average 221	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal			
Avg. N2 Percent %	Designed Slurry Volume 16.6 bbl		Displacement 5.6 bbl	Mix Water Temp 65 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl				
Customer or Authorized Representative PETE BURG			Schlumberger Supervisor LUIS JIMENEZ			Washed Thru Perfs <input type="checkbox"/>	To ft			
						Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>			
						-	-			

<b>Well</b>	BERG-1	<b>Client</b>	NOBLE
<b>Field</b>	DJ	<b>SIR No.</b>	2587895
<b>Engineer</b>	LUIS JIMENEZ	<b>Job Type</b>	PLUG ABANDON
<b>Country</b>	United States	<b>Job Date</b>	10-06-2017





## Cementing Service Report

				Customer NOBLE ENERGY		Job Number 2587895	
Well BERG-1		Location (legal) WELD		Schlumberger Location CHEYENNE		Job Start Oct/09/2017	
Field DJ		Formation Name/Type Clean-Sandstone		Deviation deg		Well MD 848.0 ft	
County WELD		State/Province Colorado		Bit Size in		Well TVD 848.0 ft	
Well Master		API/UWI		BHP psi		BHST degF	
Rig Name LEED# 714		Drilled For Oil & Gas		Service Via Land		Pore Press. Gradient lb/gal	
Offshore Zone N/A		Well Class Old		Well Type Workover			
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP			
Service Line Cementing		Job Type CEMENET PLUG		Casing/Liner			
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 2 3/8" 4.7# T/S			
Service Instructions 100 sks bring to the job and only used 71.2 sks  1.17ft3/sk  6.04gps @15.8ppg  CMT= 13.8 bbls  25 bbls of Water used Total.							
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		Pipe Rotated <input type="checkbox"/> Pipe Reciprocated <input type="checkbox"/>		Shoe Type		Squeeze Type	
No. Centralizers		Top Plugs		Bottom Plugs		Shoe Depth ft	
Cement Head Type		Stage Tool Type		Stage Tool Depth ft		Tool Type	
Job Scheduled For Oct/09/2017 08:00		Arrived on Location Oct/09/2017 08:00		Leave Location Oct/09/2017 11:30		Tool Depth ft	
Date		Time 24-hr clock		Treating Pressure PSI		Flow Rate B/M	
Density LB/G		Volume BBL		Message			
10/09/2017		09:35:52		68		0.0	
10/09/2017		09:40:53		68		0.0	
10/09/2017		09:41:43		68		0.0	
10/09/2017		09:41:46		68		0.0	
10/09/2017		09:45:31		72		0.0	
10/09/2017		09:45:32		63		0.0	
10/09/2017		09:45:34		72		0.0	
10/09/2017		09:45:54		59		0.0	
10/09/2017		09:47:40		54		0.0	
10/09/2017		09:50:55		54		0.0	
10/09/2017		09:55:56		141		0.5	
10/09/2017		09:58:00		91		0.0	
10/09/2017		09:58:01		86		0.0	
10/09/2017		09:59:02		77		0.0	
10/09/2017		10:00:57		274		0.6	
10/09/2017		10:05:58		72		0.0	
10/09/2017		10:10:59		77		0.0	
10/09/2017		10:16:00		77		0.0	
10/09/2017		10:21:01		77		0.0	

Well BERG-1	Field DJ	Job Start Oct/09/2017	Customer NOBLE ENERGY	Job Number 2587895
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### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 2.1	N2	Mud	Maximum Rate 3.0	Total Slurry 13.8	Mud 0.0	Spacer 5.5	N2 0	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2471	Final 81	Average 155	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 20.8 bbl	Displacement 0.0 bbl	Mix Water Temp 65 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 0.0 bbl			
				Washed Thru Perfs <input type="checkbox"/>	To ft			
Customer or Authorized Representative PETE BURNS			Schlumberger Supervisor LUIS JIMENEZ		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
					-			

<b>Well</b>	BERG-1	<b>Client</b>	NOBLE ENERGY
<b>Field</b>	DJ	<b>SIR No.</b>	2587895
<b>Engineer</b>	LUIS JIMENEZ	<b>Job Type</b>	CEMENET PLUG
<b>Country</b>	United States	<b>Job Date</b>	10-09-2017

