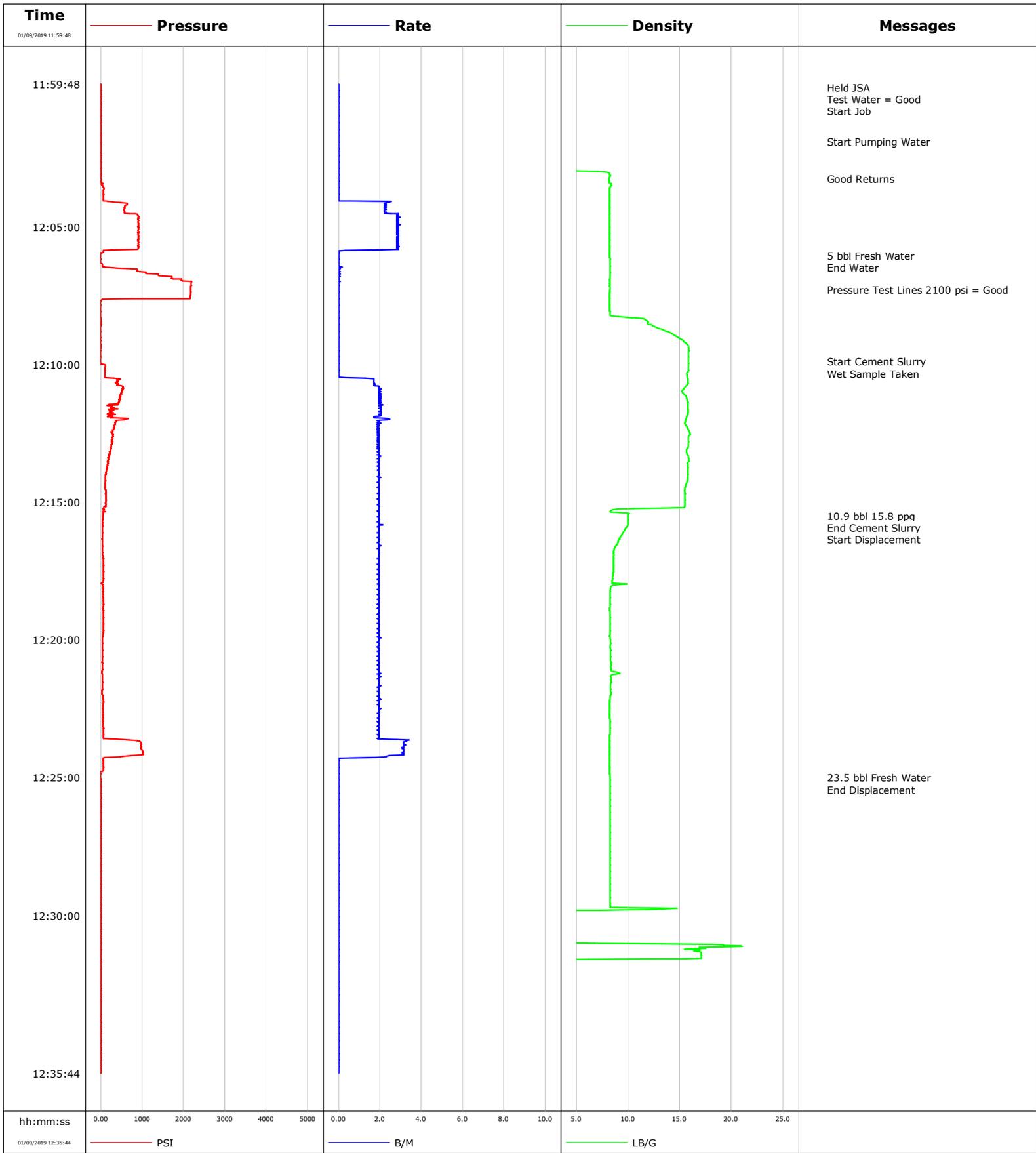


Well	HSR Nygren 3-19	Client	Anadarko
Field	DJ	SIR No.	E84H-00210
Engineer	Ken Sovereign	Job Type	Nio Plug
Country	United States	Job Date	01-09-2019



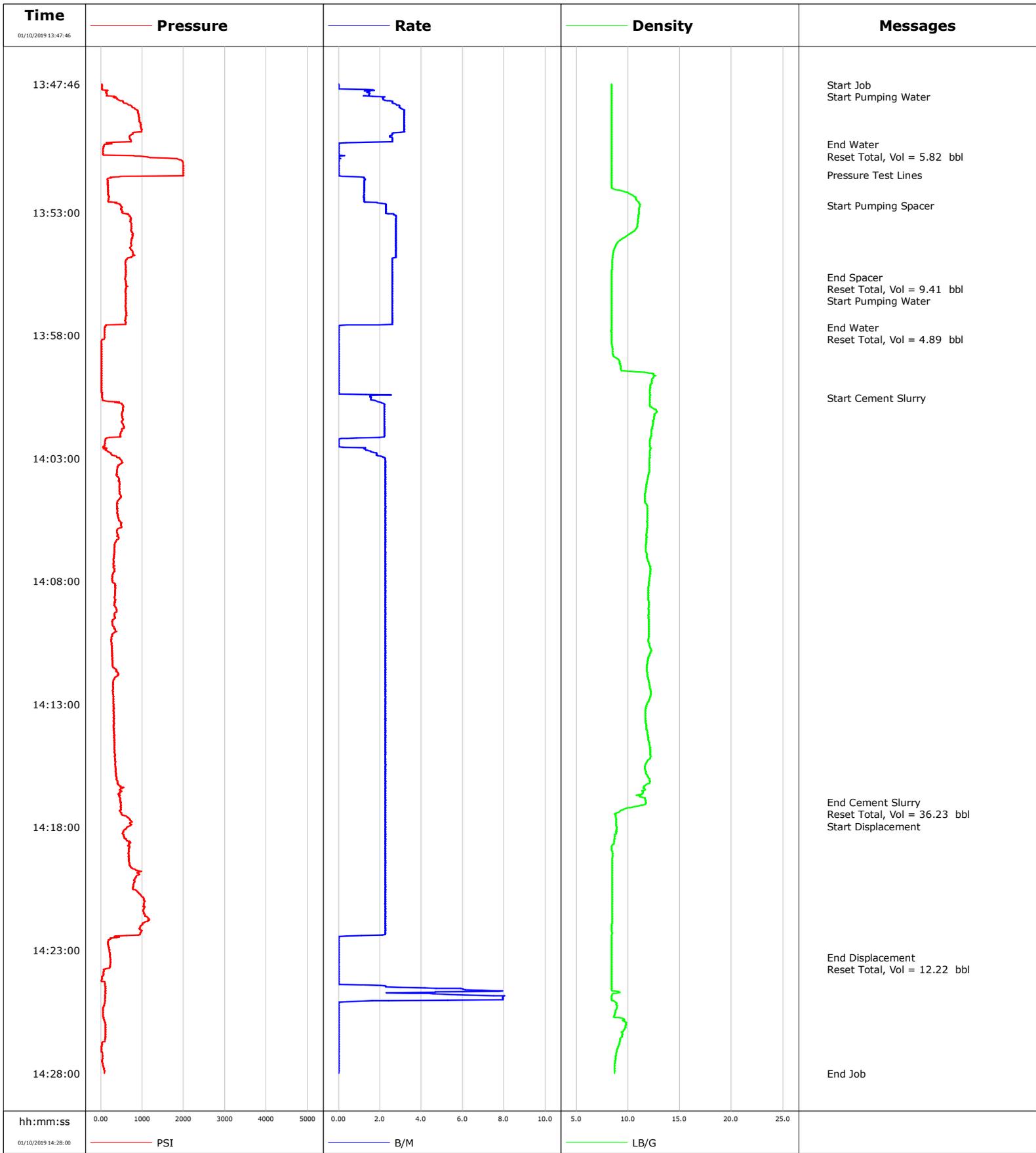
				Customer		Job Number	
				Anadarko		E84H-00210	
Well		Location (legal)		Schlumberger Location		Job Start	
HSR Nygren 3-19 3-19				Cheyenne		Jan/09/2019	
Field		Formation Name/Type		Deviation	Bit Size	Well MD	Well TVD
DJ				deg	in	6843.0 ft	6843.0 ft
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient
Weld		Colorado		psi	220 degF	210 degF	lb/gal
Well Master		API/UWI					
0630342360		05123204530000					
Rig Name	Drilled For	Service Via	Casing/Liner				
Basic 1551	Oil	Land	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class	Well Type	6843.0	4.5	11.6	N80	8RD
	Old	Workover	0.0	0.0	0.0		
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe			
		lb/gal	cP	T/D	Depth, ft	Size, in	Weight, lb/ft
Service Line	Job Type			T	6843.0	2.4	4.7
Cementing	Nio Plug				0.0	0.0	0.0
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection	Perforations/Open Hole				
psi	psi	2 3/8" 4.7# T/S	Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
			ft	ft			ft
			ft	ft			Diameter
			ft	ft			in
Service Instructions			Treat Down	Displacement	Packer Type	Packer Depth	
40 sks 1.53 ft3/sk 6.35 gal/sk			Tubing	23.5 bbl		ft	
5 bbl Fresh Water			Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.	
10.9 bbl 15.8 ppg Cement			26.5 bbl	bbl	bbl	bbl	
23.5 bbl Fresh Water							
Est. TOC = 6140'							
Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement		Casing Tools		Squeeze Job		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
Lift Pressure	psi	Shoe Type	Shoe Depth	ft	Squeeze Type		
Pipe Rotated	Pipe Reciprocated	Stage Tool Type	Stage Tool Depth	ft	Tool Type		
<input type="checkbox"/>	<input type="checkbox"/>						
No. Centralizers	Top Plugs	Bottom Plugs	Tail Pipe Size	ft			
Cement Head Type	Job Scheduled For	Arrived on Location	Leave Location	Collar Type	Tail Pipe Depth	ft	
	Jan/09/2019	Jan/09/2019	Jan/09/2019				
				Collar Depth	ft	Sqz. Total Vol.	
						bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume B/M	Message	
01/09/2019	11:59:48	0	0.0	0.30	0.0	Started Acquisition	
01/09/2019	11:59:55	0	0.0	0.30	0.0	Held JSA	
01/09/2019	11:59:58	0	0.0	0.30	0.0	Start Job	
01/09/2019	12:01:54	-5	0.0	0.30	0.0	Start Pumping Water	
01/09/2019	12:03:15	0	0.0	8.19	0.0	Good Returns	
01/09/2019	12:06:02	-9	0.0	8.25	0.0	5 bbl Fresh Water	
01/09/2019	12:07:16	2170	0.0	8.26	0.0	Pressure Test Lines 2100 psi = Good	
01/09/2019	12:09:53	-5	0.0	15.82	0.0	Start Cement Slurry	
01/09/2019	12:10:00	82	0.0	15.83	0.0	Wet Sample Taken	
01/09/2019	12:15:29	60	2.0	9.99	0.0	10.9 bbl 15.8 ppg	
01/09/2019	12:15:30	50	2.0	9.99	0.0	Start Displacement	

Well HSR Nygren 3-19 3-19	Field DJ	Job Start Jan/09/2019	Customer Anadarko	Job Number E84H-00210
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 2.2	N2	Mud	Maximum Rate 3.1	Total Slurry 10.9	Mud 0.0	Spacer 5.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2193	Final 0	Average 314	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl	Displacement 23.5 bbl	Mix Water Temp 52 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	To ft		
				Washed Thru Perfs <input type="checkbox"/>				
Customer or Authorized Representative Seth Chappell			Schlumberger Supervisor Ken Sovereign		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
					-	-		

Well	HSR Nygren 3-19	Client	Anadarko
Field	DJ	SIR No.	E84H-00211
Engineer	R Pippin	Job Type	Sussex Sqz
Country	United States	Job Date	01-10-2019



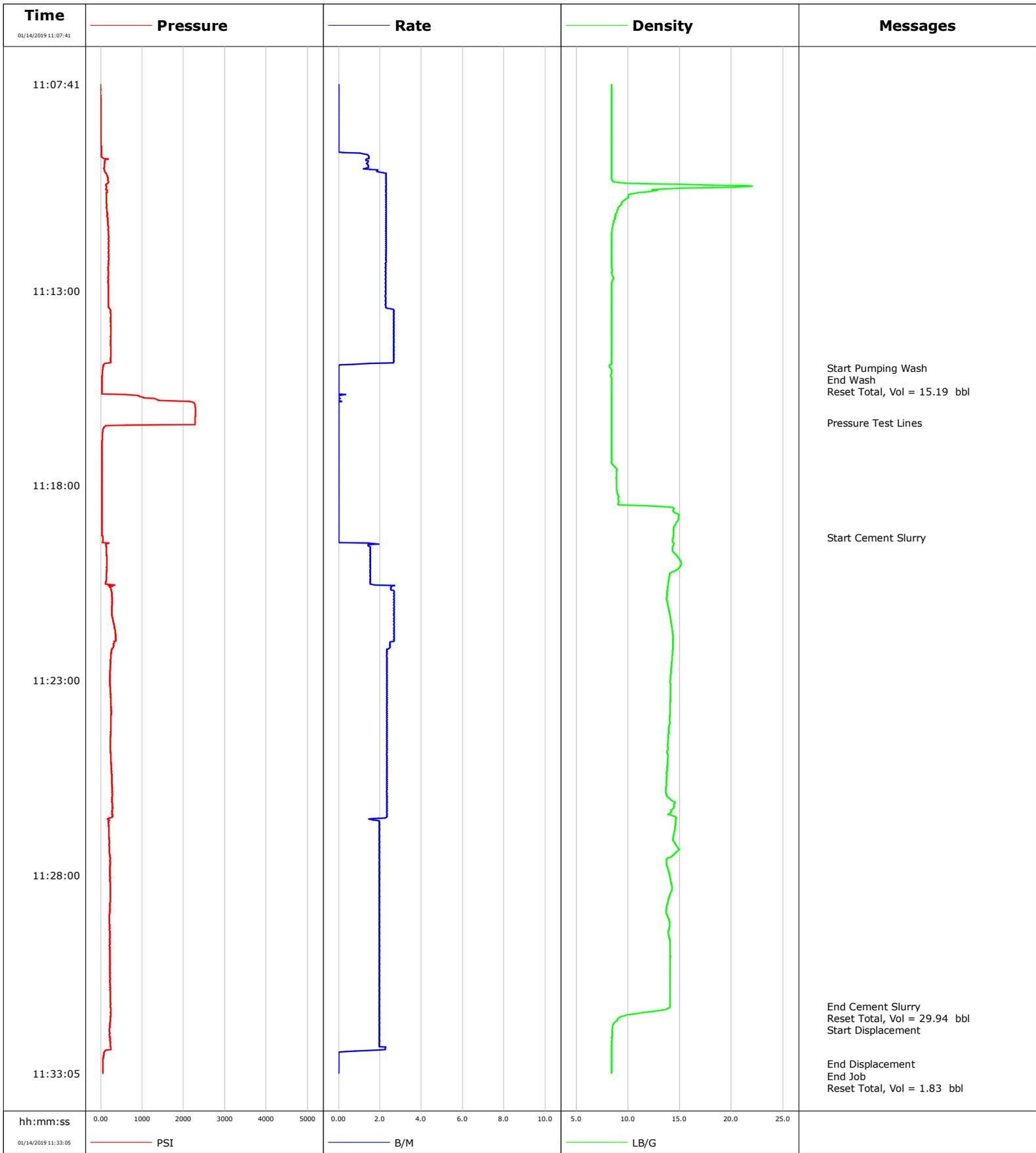
				Customer			Job Number		
				Anadarko			E84H-00211		
Well		Location (legal)			Schlumberger Location		Job Start		
HSR Nygren 3-19					Cheyenne		Jan/10/2019		
Field		Formation Name/Type		Deviation	Bit Size	Well MD	Well TVD		
DJ				deg	in	4220.0 ft	4220.0 ft		
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient		
				psi	degF	degF	lb/gal		
Well Master		API/UWI							
Rig Name	Drilled For	Service Via	Casing/Liner						
	Gas	Land	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread		
Offshore Zone	Well Class	Well Type	4220.0	4.5	11.6	N80	BUTT		
	Old	Workover	0.0	0.0	0.0				
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe					
		lb/gal	cP	T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line	Job Type			T	3869.0	2.4	4.7	j55	EUE
Cementing	Sussex Sqz				0.0	0.0	0.0		
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection	Perforations/Open Hole						
psi	psi	2 3/8" 4.7# T/S	Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval		
			ft	ft			ft		
			ft	ft			Diameter		
			ft	ft			in		
Service Instructions			Treat Down	Displacement	Packer Type	Packer Depth			
115 sks 1.79ft3/sk 9.253 gps 36.7 bbls @ 12 ppg			Tubing	12.0 bbl		ft			
5 bbls Fresh Water			Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.			
10 bbls SMS			15.0 bbl	bbl	bbl	bbl			
5 bbls Fresh Water									
36.7 bbls CMT @ 12 ppg									
12 bbls Displacement									
EST TOC 3676 FT									
Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement	Casing Tools	Squeeze Job						
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Shoe Type <td colspan="1">Shoe Depth <td colspan="1">ft <td colspan="1">Tool Type <td colspan="2"></td> </td></td></td>	Shoe Depth <td colspan="1">ft <td colspan="1">Tool Type <td colspan="2"></td> </td></td>	ft <td colspan="1">Tool Type <td colspan="2"></td> </td>	Tool Type <td colspan="2"></td>			
Lift Pressure	psi								
Pipe Rotated	<input type="checkbox"/>	Pipe Reciprocated	<input type="checkbox"/>						
No. Centralizers	Top Plugs	Bottom Plugs	Stage Tool Type	Stage Tool Depth	ft	Tail Pipe Size	ft		
Cement Head Type									
Job Scheduled For	Arrived on Location	Leave Location	Collar Type	Collar Depth	ft	Tail Pipe Depth	ft		
Jan/10/2019	Jan/10/2019	Jan/10/2019				Sqz. Total Vol.	bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/10/2019	13:47:46	31	0.0	8.44	0.0	Started Acquisition			
01/10/2019	13:47:48	31	0.0	8.44	0.0	Start Job			
01/10/2019	13:47:49	31	0.0	8.44	0.0	Start Pumping Water			
01/10/2019	13:50:14	100	0.0	8.42	5.8	End Water			
01/10/2019	13:50:17	77	0.0	8.42	5.8	Reset Total, Vol = 5.82 bbl			
01/10/2019	13:51:28	1995	0.0	8.42	5.8	Pressure Test Lines			
01/10/2019	13:52:43	489	2.3	11.15	7.4	Start Pumping Spacer			
01/10/2019	13:52:47	512	2.3	11.11	7.6				
01/10/2019	13:55:37	594	2.6	8.44	15.1	End Spacer			
01/10/2019	13:55:40	594	2.6	8.44	15.2	Reset Total, Vol = 9.41 bbl			
01/10/2019	13:55:42	590	2.6	8.44	15.3	Start Pumping Water			
01/10/2019	13:57:40	100	0.0	8.41	20.1	End Water			
01/10/2019	13:57:43	95	0.0	8.41	20.1	Reset Total, Vol = 4.89 bbl			
01/10/2019	13:57:48	91	0.0	8.37	20.1				
01/10/2019	14:00:32	36	1.6	12.10	20.4	Start Cement Slurry			
01/10/2019	14:02:49	246	1.8	12.10	24.3				
01/10/2019	14:07:50	278	2.3	12.08	35.6				
01/10/2019	14:12:51	306	2.3	12.01	46.9				
01/10/2019	14:16:59	498	2.3	11.72	56.3	End Cement Slurry			
01/10/2019	14:17:01	475	2.3	11.72	56.4	Reset Total, Vol = 36.23 bbl			
01/10/2019	14:17:15	489	2.3	9.74	56.9	Start Displacement			

Well HSR Nygren 3-19		Field DJ		Job Start Jan/10/2019		Customer Anadarko		Job Number E84H-00211	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/10/2019	14:22:53	196	0.0	8.44	68.6				
01/10/2019	14:23:18	228	0.0	8.44	68.6	End Displacement			
01/10/2019	14:23:26	228	0.0	8.44	68.6	Reset Total, Vol = 12.22 bbl			
01/10/2019	14:27:54	86	0.0	8.70	72.2				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 2.3	N2	Mud	Maximum Rate 8.0		Total Slurry 36.7	Mud 0.0	Spacer 20.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 1995	Final 95	Average 432	Bump Plug to	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 36.7 bbl		Displacement 12.0 bbl	Mix Water Temp 54 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl	
					Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative Seth Chappell			Schlumberger Supervisor R Pippin			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
					-		-	

Well	HSR Nygren 3-19	Client	Anadarko
Field	DJ	SIR No.	E84H-00212
Engineer	R Pippin	Job Type	Stub Plug
Country	United States	Job Date	01-14-2019



				Customer		Job Number	
				Anadarko		E84H-00212	
Well		Location (legal)		Schlumberger Location		Job Start	
HSR Nygren 3-19				Cheyenne		Jan/14/2019	
Field		Formation Name/Type		Deviation	Bit Size	Well MD	Well TVD
DJ				deg	7.9 in	916.0 ft	916.0 ft
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient
Weld		Colorado		psi	degF	degF	lb/gal
Well Master		API/UWI					
Rig Name	Drilled For	Service Via	Casing/Liner				
	Gas	Land	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class	Well Type	719.0	8.6	24.0	j55	8rd
	Old	Workover	0.0	0.0	0.0		
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe			
		lb/gal	cP	T/D	Depth, ft	Size, in	Weight, lb/ft
Service Line	Job Type						
Cementing	Stub Plug			T	916.0	2.4	4.7
					0.0	0.0	0.0
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection	Perforations/Open Hole				
psi	psi	2 3/8" 4.7# T/S	Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
			ft	ft			ft
			ft	ft			Diameter
			ft	ft			in
Service Instructions			Treat Down	Displacement	Packer Type	Packer Depth	
109 sks 1.55ft3/sk 7.914 gps 30 bbls @ 14 ppg			Tubing	1.8 bbl		ft	
15 bbls CW			Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.	
30 bbls CMT @ 14 ppg			3.5 bbl	bbl	bbl	bbl	
1.8 bbls Displacement							
EST TOC 463 FT							
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	Shoe Depth	ft	Squeeze Type		
Pipe Rotated	<input type="checkbox"/>	Pipe Reciprocated	<input type="checkbox"/>		Tool Type		
No. Centralizers	Top Plugs	Bottom Plugs	Stage Tool Type	Stage Tool Depth	ft	Tail Pipe Size	ft
Cement Head Type							
Job Scheduled For	Arrived on Location	Leave Location	Collar Type	Collar Depth	ft	Tail Pipe Depth	ft
Jan/14/2019	Jan/14/2019	Jan/14/2019				Sqz. Total Vol.	bbl
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
01/14/2019	11:07:41	-1	0.0	8.41	0.0	JSA Complete	
01/14/2019	11:12:42	187	2.2	8.57	7.0		
01/14/2019	11:14:59	54	0.0	8.31	12.5	Start Pumping Wash	
01/14/2019	11:15:00	49	0.0	8.38	12.5	End Wash	
01/14/2019	11:15:03	45	0.0	8.41	12.5	Reset Total, Vol = 15.19 bbl	
01/14/2019	11:16:22	2283	0.0	8.41	12.5	Pressure Test Lines	
01/14/2019	11:17:43	31	0.0	8.90	12.5		
01/14/2019	11:19:20	49	0.0	14.37	12.5	Start Cement Slurry	
01/14/2019	11:22:44	223	2.4	14.17	19.8		
01/14/2019	11:27:45	228	2.0	13.75	31.0		
01/14/2019	11:31:22	237	2.0	14.08	38.1	End Cement Slurry	
01/14/2019	11:31:25	242	2.0	13.93	38.2	Reset Total, Vol = 29.94 bbl	
01/14/2019	11:31:29	242	2.0	12.96	38.4	Start Displacement	
01/14/2019	11:32:46	59	0.0	8.42	40.4		
01/14/2019	11:32:51	54	0.0	8.42	40.4	End Displacement	
01/14/2019	11:32:53	54	0.0	8.42	40.4	End Job	

Well HSR Nygren 3-19	Field DJ	Job Start Jan/14/2019	Customer Anadarko	Job Number E84H-00212
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 2.2	N2	Mud	Maximum Rate 2.7	Total Slurry 30.0	Mud 0.0	Spacer 15.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2288	Final 49	Average 233	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 30.0 bbl	Displacement 1.8 bbl	Mix Water Temp 43 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	To ft		
				Washed Thru Perfs <input type="checkbox"/>				
Customer or Authorized Representative Seth Chappell			Schlumberger Supervisor R Pippin		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
					-	-		