

Cementing Service Report

				Customer Noble		Job Number DA6T-01884	
Well Booth USX EE 25-23			Location (legal) CWY		Schlumberger Location Cheyenne		Job Start Nov/29/2017
Field DJ		Formation Name/Type		Deviation deg	Bit Size in	Well MD 7081.0 ft	Well TVD 7081.0 ft
County Weld		State/Province Colorado		BHP psi	BHST 220 degF	BHCT 210 degF	Pore Press. Gradient lb/gal
Well Master 630889596		API/UWI					
Rig Name	Drilled For Oil and Gas	Service Via Land		Casing/Liner			
				Depth, ft	Size, in	Weight, lb/ft	Grade
Offshore Zone	Well Class Old	Well Type Other		7081.0	4.5	11.6	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 Nio Plug			T	7081.0	2.4	N/A
					0.0	0.0	
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
				ft	ft		Total Interval ft
				ft	ft		Diameter in
				ft	ft		
Service Instructions Nio Plug/ water and cmt checked and verified Est. top of cmt @ 6610 ft 5 bbl Water 7.3 bbl cmt@15.8ppg 1.17cuft/sk 35sks 5.04gal/sk 25 bbl Displacement Shallow Plug Est. top of cmt @ 3270 ft 5 bbl water 8.3bbl cmt@15.8ppg 1.17cuft/sk 40sks 5.04 gal/sk 12 bbl Displacement				Treat Down Tubing	Displacement 25.0 bbl	Packer Type	Packer Depth ft
				Tubing Vol. bbl	Casing Vol. bbl	Annular Vol. 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		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 Nov/29/2017		Arrived on Location Nov/29/2017	Leave Location Nov/29/2017	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 NULL	Message	
11/29/2017	08:29:02	-120	0.0	8.37	10	Started Acquisition	
11/29/2017	08:31:02	-120	0.0	8.37	10		
11/29/2017	08:33:02	219	1.4	8.38	5		
11/29/2017	08:33:55	2773	0.0	8.37	10	Pressure Test Lines	
11/29/2017	08:34:30	-97	0.0	8.37	12	Reset Total, Vol = 1.04 bbl	
11/29/2017	08:34:31	-97	0.0	8.37	12	Start Pumping Water	
11/29/2017	08:35:02	590	1.4	8.37	5		
11/29/2017	08:37:02	832	2.6	8.37	5		
11/29/2017	08:37:37	-15	2.0	8.37	9	End Water	
11/29/2017	08:37:38	-125	1.2	8.37	12	Reset Total, Vol = 5.00 bbl	
11/29/2017	08:39:02	-125	0.2	9.18	10		
11/29/2017	08:41:00	-125	0.0	15.91	12	Reset Total, Vol = 0.00 bbl	
11/29/2017	08:41:02	-125	0.0	15.91	12		
11/29/2017	08:41:41	393	2.0	15.92	5	Start Cement Slurry	
11/29/2017	08:43:02	223	2.0	16.01	5		
11/29/2017	08:43:39	136	2.0	16.03	5	End Cement Slurry	
11/29/2017	08:44:40	434	2.4	13.18	12	Reset Total, Vol = 7.32 bbl	
11/29/2017	08:44:41	420	2.5	11.68	7	Start Displacement	
11/29/2017	08:45:02	361	2.6	11.15	5		
11/29/2017	08:47:02	205	2.7	8.33	5		
11/29/2017	08:49:02	269	2.7	8.38	5		

Well			Field		Job Start		Customer		Job Number		
Booth USX EE 25-23			DJ		Nov/29/2017		Noble		DA6T-01884		
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume NULL	Message				
11/29/2017	08:53:02		452	2.6	8.36	5					
11/29/2017	08:54:08		-129	1.1	8.36	5	End Displacement				
11/29/2017	08:54:09		-129	0.7	8.36	11	Reset Total, Vol = 25.02 bbl				
11/29/2017	08:55:02		-120	0.0	8.36	10					
11/29/2017	10:30:28		-120	0.0	8.37	10	Start Pumping Water				
11/29/2017	10:31:02		-115	0.0	8.37	10					
11/29/2017	10:33:02		-120	0.0	8.37	10					
11/29/2017	10:35:02		622	3.2	8.37	5					
11/29/2017	10:35:09		-47	2.5	8.37	5	End Water				
11/29/2017	10:35:10		-125	1.8	8.37	12	Reset Total, Vol = 5.13 bbl				
11/29/2017	10:37:02		-115	0.2	9.89	10					
11/29/2017	10:38:41		-115	0.0	15.94	12	Reset Total, Vol = 0.02 bbl				
11/29/2017	10:38:42		-115	0.0	15.94	12	Start Cement Slurry				
11/29/2017	10:39:02		411	2.6	15.94	5					
11/29/2017	10:41:02		17	2.3	15.56	5					
11/29/2017	10:41:40		150	2.5	13.63	5	End Cement Slurry				
11/29/2017	10:41:41		146	2.5	12.05	12	Reset Total, Vol = 7.24 bbl				
11/29/2017	10:41:42		109	2.6	10.81	12	Start Displacement				
11/29/2017	10:43:02		-47	3.2	9.53	5					
11/29/2017	10:45:02		-79	3.8	11.34	5					
11/29/2017	10:45:39		-97	2.7	8.39	5	End Displacement				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 2.7	N2	Mud	Maximum Rate 9.6		Total Slurry 15.6	Mud 0.0	Spacer 10.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 2837	Final -125	Average 372	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal			
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl	Displacement 25.0 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 CJ Smith			Schlumberger Supervisor Richard White			Circulation Lost <input type="checkbox"/>	Job Completed <input type="checkbox"/>			
						-	-			

Cementing Service Report

				Customer Noble				Job Number DA6T-01885							
Well Booth USX EE 25-23				Location (legal) CWY				Schlumberger Location Cheyenne				Job Start Nov/30/2017			
Field DJ		Formation Name/Type				Deviation deg		Bit Size in		Well MD 940.0 ft		Well TVD 940.0 ft			
County Weld		State/Province Colorado				BHP psi		BHST 90 degF		BHCT 80 degF		Pore Press. Gradient lb/gal			
Well Master 630889596		API/UWI													
Rig Name Bohler 5		Drilled For Oil and Gas		Service Via Land		Casing/Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade			
Offshore Zone		Well Class Old		Well Type Other											
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			
Service Line Cementing		Job Type P & A													
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			
						ft		ft				Total Interval ft			
						ft		ft				Diameter in			
						ft		ft							
						Treat Down Tubing		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 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 Nov/30/2017		Arrived on Location Nov/30/2017		Leave Location Nov/30/2017		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 NULL	Message									
11/30/2017	11:43:46	-120	0.0	0.09	5	Started Acquisition									
11/30/2017	11:45:46	-120	0.0	8.30	10										
11/30/2017	11:47:21	2498	0.0	8.36	10	Pressure Test Lines									
11/30/2017	11:47:46	2444	0.0	8.36	10										
11/30/2017	11:48:35	-19	0.0	8.36	12	Reset Total, Vol = 1.33 bbl									
11/30/2017	11:49:46	136	2.9	8.36	5										
11/30/2017	11:51:46	118	3.3	8.36	5										
11/30/2017	11:52:04	-147	1.8	8.36	9	End Wash									
11/30/2017	11:52:05	-152	1.1	8.36	12	Reset Total, Vol = 9.99 bbl									
11/30/2017	11:53:46	-106	0.0	8.64	10										
11/30/2017	11:55:46	-115	9.2	15.86	10										
11/30/2017	11:55:53	-106	0.4	15.85	12	Reset Total, Vol = 0.00 bbl									
11/30/2017	11:55:54	-106	0.2	15.85	12	Start Cement Slurry									
11/30/2017	11:57:46	31	3.0	15.91	5										
11/30/2017	11:59:46	109	3.1	15.77	5										
11/30/2017	12:01:46	196	3.1	15.97	5										
11/30/2017	12:03:46	187	3.2	15.55	5										
11/30/2017	12:05:46	164	3.2	15.89	5										
11/30/2017	12:07:46	191	3.1	15.97	5										
11/30/2017	12:09:46	292	3.3	15.88	5										
11/30/2017	12:11:46	329	3.2	15.88	5										

Well Booth USX EE 25-23			Field DJ		Job Start Nov/30/2017	Customer Noble		Job Number DA6T-01885	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume NULL	Message		
11/30/2017	12:15:46	164		2.0	15.98	5			
11/30/2017	12:17:46	329		3.0	15.88	5			
11/30/2017	12:19:46	434		3.0	15.77	5			
11/30/2017	12:21:17	-125		0.0	16.00	5	End Cement Slurry		
11/30/2017	12:21:18	-120		0.0	16.00	12	Reset Total, Vol = 72.00 bbl		
11/30/2017	12:21:46	-125		0.0	16.00	10			
11/30/2017	12:47:46	-125		0.0	8.37	10			
11/30/2017	12:49:46	-125		8.0	11.70	10			
11/30/2017	12:51:46	-125		9.3	15.84	10			
11/30/2017	12:52:25	-120		0.0	15.86	12	Reset Total, Vol = 0.00 bbl		
11/30/2017	12:53:46	-88		1.8	15.89	5			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 3.6	N2	Mud	Maximum Rate 10.1	Total Slurry 87.2	Mud 0.0	Spacer 0.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2581	Final -129	Average 277	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 CJ Smith			Schlumberger Supervisor Richard White			Circulation Lost	<input type="checkbox"/>	Job Completed <input type="checkbox"/>
						-		-