

				Customer Noble		Job Number da6t-01890	
Well Foss USX AA 5-19			Location (legal)		Schlumberger Location		Job Start Dec/05/2017
Field DJ		Formation Name/Type		Deviation deg	Bit Size in	Well MD ft	Well TVD ft
County		State/Province Colorado		BHP psi	BHST degF	BHCT degF	Pore Press. Gradient lb/gal
Well Master		API/UWI					
Rig Name		Drilled For N/A	Service Via Land	Casing/Liner			
				Depth, ft	Size, in	Weight, lb/ft	Grade Thread
Offshore Zone		Well Class Old	Well Type Other				
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe			
				T/D	Depth, ft	Size, in	Weight, lb/ft Grade Thread
Service Line Cementing		Job Type Nio and Shallow Plug		T	6500.0	2.4	4.7
				T	2500.0	2.4	4.7
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
<b>Service Instructions</b> 5 bbl water Pressure Test 2500 Pump 2.1 bbl of 15.8 ppg crnt Disp 24 bbl est TOC 6365 - Pump 5 bbl water Pump 4.8 bbl cement Disp 8 bbl est TOC 2191				ft	ft		Diameter in
				ft	ft		
				ft	ft		
		Treat Down Tubing		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 Dec/05/2017		Arrived on Location Dec/05/2017	Leave Location Dec/05/2017	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 BBL	Message	
12/05/2017	10:42:38	-3750	0.0	-6.25	0.0	Started Acquisition	
12/05/2017	10:46:00	8	0.0	8.26	0.3	Start Pumping Spacer	
12/05/2017	10:46:48	77	0.3	8.25	0.6		
12/05/2017	10:50:00	2659	0.0	8.28	5.8	Pressure Test Lines	
12/05/2017	10:50:58	4	0.0	8.28	5.8		
12/05/2017	10:54:00	4	4.6	16.00	5.8	Start Cement Slurry	
12/05/2017	10:55:08	580	2.4	15.89	8.2		
12/05/2017	10:55:30	558	2.4	15.85	9.1	End Cement Slurry	
12/05/2017	10:56:00	471	2.4	8.32	10.3	Start Displacement	
12/05/2017	10:59:18	562	3.5	9.03	20.3		
12/05/2017	11:03:28	72	1.8	8.26	32.5		
12/05/2017	11:04:00	4	0.7	8.30	33.4	End Displacement	
12/05/2017	12:20:26	8	0.0	8.27	33.5	Reset Total, Vol = 33.52 bbl	
12/05/2017	12:22:38	8	0.0	8.26	0.0		
12/05/2017	12:24:00	8	0.1	8.28	0.1	Start Pumping Spacer	
12/05/2017	12:26:48	-1	0.0	8.27	7.2		
12/05/2017	12:30:58	-1	4.9	15.55	7.2		
12/05/2017	12:32:00	-1	4.9	15.86	7.2	Start Cement Slurry	
12/05/2017	12:34:00	132	2.3	15.67	11.4	End Cement Slurry	
12/05/2017	12:35:00	81	2.5	9.85	13.8	Start Displacement	
12/05/2017	12:35:08	210	2.8	9.62	14.1		

<b>Well</b> Foss USX AA 5-19	<b>Field</b> DJ	<b>Job Start</b> Dec/05/2017	<b>Customer</b> Noble	<b>Job Number</b> da6t-01890
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## Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
<b>Slurry</b> 2.1	<b>N2</b>	<b>Mud</b>	<b>Maximum Rate</b> 7.5	<b>Total Slurry</b> 0.0	<b>Mud</b> 0.0	<b>Spacer</b> 0.0	<b>N2</b>		
Treating Pressure Summary, psi					Breakdown Fluid				
<b>Maximum</b> 25886	<b>Final</b> 8	<b>Average</b> 256	<b>Bump Plug to</b>	<b>Breakdown</b>	<b>Type</b>	<b>Volume</b> bbl	<b>Density</b> lb/gal		
<b>Avg. N2 Percent</b> %	<b>Designed Slurry Volume</b> 0.0 bbl		<b>Displacement</b> 0.0 bbl	<b>Mix Water Temp</b> degF	<b>Cement Circulated to Surface?</b> <input type="checkbox"/>	<b>Volume</b> bbl			
					<b>Washed Thru Perfs</b> <input type="checkbox"/>	<b>To</b> ft			
<b>Customer or Authorized Representative</b> Dustin Stevens			<b>Schlumberger Supervisor</b> Scot Thornton			<b>Circulation Lost</b> <input type="checkbox"/>	<b>Job Completed</b> <input checked="" type="checkbox"/>		
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				Customer Noble		Job Number da6t-01891	
Well Foss USX AA 5-19			Location (legal)		Schlumberger Location		Job Start Dec/06/2017
Field DJ		Formation Name/Type		Deviation deg	Bit Size in	Well MD ft	Well TVD ft
County		State/Province Colorado		BHP psi	BHST degF	BHCT degF	Pore Press. Gradient lb/gal
Well Master		API/UWI					
Rig Name		Drilled For N/A	Service Via Land	Casing/Liner			
				Depth, ft	Size, in	Weight, lb/ft	Grade
Offshore Zone		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
Service Line Cementing		Job Type Surface Plug		T	1015.0	2.4	4.7
					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
<b>Service Instructions</b> Pump 10 bbl chem wash Pressure test 2500 Pump Cement to Surface (75 bbl 360 sks)  Fill casing after pulling pipe (19 bbl 90 sks)							Total Interval ft
							Diameter in
		Treat Down Tubing	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 Dec/06/2017 10:30		Arrived on Location Dec/06/2017 14:30		Leave Location Dec/06/2017		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 BBL	Message	
12/06/2017	11:12:52	-47	0.0	8.36	0.0	Started Acquisition	
12/06/2017	11:14:00	-47	0.0	8.36	0.0	Start Pumping Wash	
12/06/2017	11:17:02	164	4.0	8.35	9.0		
12/06/2017	11:21:12	155	4.2	8.36	18.3		
12/06/2017	11:22:00	2288	0.0	8.35	18.9	Pressure Test Lines	
12/06/2017	11:25:22	-51	8.6	14.61	18.9		
12/06/2017	11:26:00	-51	8.8	15.90	18.9	Start Cement Slurry	
12/06/2017	11:29:32	356	4.0	15.53	31.3		
12/06/2017	11:33:42	388	3.7	16.10	46.5		
12/06/2017	11:37:52	612	4.1	15.94	63.5		
12/06/2017	11:42:02	338	3.0	15.88	78.5		
12/06/2017	11:46:12	704	3.7	16.02	92.2		
12/06/2017	11:47:00	-56	8.7	15.72	94.3	End Cement Slurry	
12/06/2017	11:50:22	-56	8.7	15.72	94.3		
12/06/2017	11:54:32	-56	0.0	15.75	94.3		
12/06/2017	11:58:42	-24	1.5	15.75	94.8		
12/06/2017	12:00:00	-60	0.0	15.74	95.3	Start Cement Slurry	
12/06/2017	12:02:52	-60	0.0	15.77	96.3		
12/06/2017	12:07:02	-60	0.0	15.76	97.0		
12/06/2017	12:11:12	-60	0.0	15.76	97.6		
12/06/2017	12:15:22	-56	0.0	15.77	97.6		

Well			Field	Job Start	Customer	Job Number
Foss USX AA 5-19			DJ	Dec/06/2017	Noble	da6t-01891
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
12/06/2017	13:05:22	-56	0.0	15.75	100.6	
12/06/2017	13:09:32	-60	0.0	15.68	101.1	
12/06/2017	13:13:42	-47	0.8	15.65	102.2	
12/06/2017	13:17:52	-60	0.0	15.56	102.4	
12/06/2017	13:22:02	-60	0.0	15.58	102.8	
12/06/2017	13:26:12	-56	0.6	11.02	103.7	
12/06/2017	13:34:32	-56	0.0	-0.00	115.8	
12/06/2017	13:38:42	-56	0.0	-0.00	115.8	
12/06/2017	13:42:52	-60	0.0	-0.00	115.8	
12/06/2017	13:47:02	-60	8.1	14.57	118.6	
12/06/2017	13:51:12	-47	1.0	15.81	121.6	
12/06/2017	13:55:22	-60	0.0	15.79	122.0	
12/06/2017	13:59:32	-56	0.0	15.80	122.0	
12/06/2017	14:03:42	-56	0.0	15.80	122.0	

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
3.9			25.0		95.0	0.0	15.0	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
178	-60	374				bbl	lb/gal	
Avg. N2 Percent		Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?		Volume
%		0.0 bbl		0.0 bbl	degF	<input checked="" type="checkbox"/>		bbl
						Washed Thru Perfs		To
						<input type="checkbox"/>		ft
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost		Job Completed
Chris Mathias			Scot Thornton			<input type="checkbox"/>		<input checked="" type="checkbox"/>
						-		-