

				Customer Noble		Job Number DA6T-01867	
Well Foss USX AA 05-05			Location (legal)		Schlumberger Location Cheyenne		Job Start Nov/21/2017
Field DJ		Formation Name/Type		Deviation deg	Bit Size in	Well MD 6791.0 ft	Well TVD 6791.0 ft
County Weld		State/Province Colorado		BHP psi	BHST degF	BHCT degF	Pore Press. Gradient lb/gal
Well Master		API/UWI					
Rig Name		Drilled For Oil & Gas	Service Via Land	Casing/Liner			
				Depth, ft	Size, in	Weight, lb/ft	Grade
Offshore Zone		Well Class Old	Well Type Workover	6791.0	4.5	11.6	N80
				734.0	8.6	24.0	J55
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 Nio & Shallow Plug		T	6791.0	2.4	4.7
					0.0	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
Service Instructions				ft	ft		Total Interval ft
40 sks 1.17ft3/sk 5.06 gps 8.3 bbls @ 15.8 ppg				ft	ft		Diameter in
Nio Est Toc = 6238 ft From 6791 to 6238 =553 ft				ft	ft		
Spacer 5 bbls CMT 8. bbls Displace 23 bbls							
40 sks 1.17ft3/sk 5.06 gps 8.3 bbls @ 15.8 ppg				Treat Down Tubing	Displacement 23.0 bbl	Packer Type	Packer Depth ft
Shallow Est Toc = 1947 ft From 2500 to 1947 =553 ft				Tubing Vol. 26.2 bbl	Casing Vol. bbl	Annular Vol. bbl	Openhole Vol. bbl
Spacer 5 bbls CMT 8.3 bbls Displace 6.4 bbls							
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 Nov/21/2017		Arrived on Location Nov/21/2017	Leave Location Nov/21/2017	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	
11/21/2017	11:38:06	-115	0.0	0.10	0.0		
11/21/2017	11:39:47	-102	0.0	8.14	0.0	Start Job	
11/21/2017	11:40:04	-51	1.0	8.22	0.0	Start Pumping Water	
11/21/2017	11:41:33	-120	0.0	8.35	4.2	End Water	
11/21/2017	11:42:34	2453	0.0	8.35	4.2	Pressure Test Lines	
11/21/2017	11:43:07	-125	0.0	8.35	4.2		
11/21/2017	11:45:30	-1	0.0	15.53	4.2	Start Cement Slurry	
11/21/2017	11:48:08	764	3.1	15.75	11.5		
11/21/2017	11:48:20	805	3.2	12.27	12.1	End Cement Slurry	
11/21/2017	11:48:28	773	3.3	9.70	12.5	Start Displacement	
11/21/2017	11:53:09	663	3.4	8.35	28.1		
11/21/2017	11:55:18	-115	0.0	8.35	35.1	End Displacement	
11/21/2017	11:55:39	-125	0.0	8.35	35.1	End Job	
11/21/2017	13:11:12	-111	0.0	8.35	35.1	Start Pumping Water	
11/21/2017	13:12:52	-134	0.2	8.35	40.2	End Water	
11/21/2017	13:13:25	-125	0.0	8.35	40.2		
11/21/2017	13:13:54	-120	0.3	8.55	40.3	Start Cement Slurry	
11/21/2017	13:16:58	-19	2.7	13.46	48.5	End Cement Slurry	
11/21/2017	13:17:08	-56	2.0	8.70	48.9	Start Displacement	
11/21/2017	13:18:26	-51	2.6	8.31	52.6		
11/21/2017	13:19:49	-120	0.1	8.36	55.5	End Displacement	

Well Foss USX AA 05-05			Field DJ		Job Start Nov/21/2017	Customer Noble		Job Number DA6T-01867	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume BBL	Message		
11/21/2017	13:23:27	-115		0.0	8.42	55.5			

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 2.8	N2	Mud	Maximum Rate 5.0		Total Slurry 56.9	Mud 0.0	Spacer 0.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2485	Final -115	Average 651	Bump Plug to	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %		Designed Slurry Volume 16.6 bbl	Displacement 0.0 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl	
					Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative Tony Mathias			Schlumberger Supervisor Robert Pippin			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	

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Well			Flow	Job Start		Customer	Job Number
Foss USX AA 05-05			DJ	Nov/27/2017		Noble	DA6T-01875
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
11/27/2017	11:30:00	105	2.5	15.80	19.9	Wet and Dry Samples	
11/27/2017	11:30:12	215	3.2	15.86	20.5		
11/27/2017	11:31:00	151	3.2	15.75	23.0	Good Returns	
11/27/2017	11:32:00	183	3.2	15.89	26.2	Bottom Plug @ 984'	
11/27/2017	11:32:12	183	3.2	15.91	26.8		
11/27/2017	11:34:12	211	3.2	15.86	33.1		
11/27/2017	11:36:12	233	3.2	15.85	39.4		
11/27/2017	11:38:12	256	3.2	15.62	45.7		
11/27/2017	11:40:12	298	3.2	15.72	52.0		
11/27/2017	11:42:12	325	3.1	15.79	58.3		
11/27/2017	11:44:12	352	3.2	15.57	64.5		
11/27/2017	11:46:12	389	3.1	15.79	70.8		
11/27/2017	11:48:12	412	3.2	15.78	77.0		
11/27/2017	11:50:12	5	0.0	15.76	81.8		
11/27/2017	11:51:00	499	3.1	15.89	83.0	Cement To Surface	
11/27/2017	11:51:29	105	0.0	15.84	84.4	End Cement Slurry	
11/27/2017	11:52:12	18	0.0	15.91	84.4		
11/27/2017	11:54:12	9	0.0	15.92	84.4		
11/27/2017	11:56:12	5	0.0	15.91	84.4		
11/27/2017	11:58:12	5	0.0	15.90	84.4		
11/27/2017	12:00:12	-5	0.0	15.79	84.4		
11/27/2017	12:02:00	-5	0.0	15.82	84.4	Top Out	
11/27/2017	12:02:12	5	0.0	15.82	84.4		
11/27/2017	12:04:12	5	0.0	15.85	84.4		
11/27/2017	12:04:54	5	0.0	15.85	84.4	Top Out	
11/27/2017	12:05:00	105	0.0	15.79	84.4	2 bbl	
11/27/2017	12:06:12	5	0.0	15.85	84.4		
11/27/2017	12:07:30	5	0.0	15.85	84.4	Top Out	
11/27/2017	12:07:31	5	0.0	15.85	84.4	2.3 bbl	
11/27/2017	12:08:12	14	0.0	15.85	84.4		
11/27/2017	12:10:12	5	0.0	15.85	84.4		
11/27/2017	12:12:12	5	0.0	15.84	84.4		
11/27/2017	12:14:12	5	0.0	15.84	84.4		
11/27/2017	12:16:12	5	0.0	15.85	84.4		
11/27/2017	12:18:12	5	0.0	15.85	84.4		
11/27/2017	12:20:12	5	0.0	15.83	84.4		
11/27/2017	12:22:12	5	0.0	15.84	84.4		
11/27/2017	12:24:12	5	0.0	15.85	84.4		
11/27/2017	12:25:22	5	0.0	15.85	84.4	30 sks @ 1.17 Y	
11/27/2017	12:25:42	5	0.0	15.85	84.4	6.3 bbl @ 15.8 ppg	
11/27/2017	12:26:12	5	0.0	15.88	84.4		
11/27/2017	12:28:12	5	0.0	15.99	84.4		
11/27/2017	12:30:12	5	0.0	16.11	84.4		
11/27/2017	12:32:12	5	0.0	16.24	84.4		
11/27/2017	12:34:12	5	0.0	16.46	84.4		
11/27/2017	12:36:12	0	0.0	10.78	84.4		
11/27/2017	12:38:12	0	0.0	12.79	84.4		
11/27/2017	12:40:12	0	0.0	12.95	84.4		
11/27/2017	12:42:12	0	0.0	13.00	84.4		
11/27/2017	12:44:12	0	0.0	13.64	84.4		
11/27/2017	12:46:12	0	0.0	13.36	84.4		
11/27/2017	12:48:12	0	0.0	13.69	84.4		
11/27/2017	12:50:12	-5	0.0	16.18	84.4		
11/27/2017	12:51:15	69	0.0	15.85	84.4	Top Out	

Well			Fit	Job Start		Customer	Job Number	
Foss USX AA 05-05			DJ	Nov/27/2017		Noble	DA6T-01875	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
11/27/2017	12:52:12	37	0.0	15.88	84.4			
11/27/2017	12:54:12	5	0.0	17.38	84.4			
11/27/2017	12:56:12	9	0.0	14.18	84.4			
11/27/2017	12:58:12	0	0.0	9.86	84.4			
11/27/2017	13:00:12	0	0.0	14.63	84.4			
11/27/2017	13:02:12	0	0.0	15.71	84.4			
11/27/2017	13:03:05	9	0.0	15.75	84.4	Top Out		
11/27/2017	13:04:00	37	0.0	15.68	84.4	4 bbl		
11/27/2017	13:04:12	37	0.0	15.68	84.4			
11/27/2017	13:06:12	14	0.0	15.91	84.4			
11/27/2017	13:08:12	5	0.0	15.14	84.4			
11/27/2017	13:10:12	-5	0.0	10.60	84.4			
11/27/2017	13:12:00	-5	0.0	15.75	84.4	Top Out		
11/27/2017	13:12:12	5	0.0	15.74	84.4			
11/27/2017	13:14:12	27	0.0	15.80	84.4			
11/27/2017	13:16:12	5	0.0	15.75	84.4			
11/27/2017	13:18:12	27	0.0	13.18	84.4			
11/27/2017	13:20:12	14	0.0	9.69	84.4			
11/27/2017	13:22:12	14	0.0	9.09	84.4			
11/27/2017	13:24:12	14	0.0	9.00	84.4			
11/27/2017	13:25:00	82	0.0	8.76	84.4	Wash Up		
11/27/2017	13:26:12	78	2.3	8.65	85.7			
11/27/2017	13:28:12	14	0.0	8.35	88.6			
11/27/2017	13:30:12	14	0.0	8.28	88.6			
11/27/2017	13:32:12	50	2.9	8.31	92.2			
11/27/2017	13:34:12	55	0.0	8.29	93.4			

### Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry 2.9	N2	Mud	Maximum Rate 5.8	Total Slurry 83.3	Mud 0.0	Spacer 15.0	N2
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum 2614	Final 9	Average 98	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 93.7 bbl		Displacement 0.0 bbl	Mix Water Temp 63 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	
					Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative			Schlumberger Supervisor Matt Leiker			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>
						-	-