

				Customer Noble			Job Number DA6T-01756								
Well 70 Ranch USX BB 23-2			Location (legal)			Schlumberger Location			Job Start Oct/30/2017						
Field DJ		Formation Name/Type			Deviation deg		Bit Size in		Well MD ft		Well TVD ft				
County Weld		State/Province Colorado			BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal				
Well Master 0630938039		API/UWI 05123260660000													
Rig Name		Drilled For Oil		Service Via Land		Casing/Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade	Thread		
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		Grade	Thread
Service Line Cementing		Job Type Plug					T		2309.0						
								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		Total Interval ft	
Service Instructions Rate and Density Checked Pump 5 bbl Water 25 sks @ 1.17 Y @ 5.2 bbl @ 15.8 ppg Displace 7.5 bbl Bottom Plug @ 2309' Estimated Top @ 1974'						ft		ft						ft	
						ft		ft						Diameter in	
						ft		ft						in	
						Treat Down Tubing		Displacement 7.5 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 Oct/30/2017		Arrived on Location Oct/30/2017		Leave Location Oct/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 BBL	Message									
10/30/2017	11:30:59	5	0.0	8.21	0.0	Started Acquisition									
10/30/2017	11:31:02	5	0.0	8.21	0.0	Rig Up									
10/30/2017	11:32:59	5	0.0	8.21	0.0										
10/30/2017	11:34:59	325	2.5	8.25	2.0										
10/30/2017	11:36:59	2545	0.0	8.22	4.3										
10/30/2017	11:37:08	2518	0.0	8.22	4.3	Start Pumping Wash									
10/30/2017	11:37:10	2513	0.0	8.22	4.3	5 bbl Water									
10/30/2017	11:37:13	2509	0.0	8.22	4.3	End Wash									
10/30/2017	11:37:16	2504	0.0	8.22	4.3	Pressure Test Lines									
10/30/2017	11:37:17	2504	0.0	8.21	4.3	Test to 2500 psi									
10/30/2017	11:37:18	2499	0.0	8.22	4.3	Test = Good									
10/30/2017	11:38:59	27	0.0	10.03	4.3										
10/30/2017	11:40:59	27	0.0	15.70	4.3										
10/30/2017	11:42:59	96	1.9	15.81	7.4										
10/30/2017	11:44:59	60	1.9	8.64	11.2										
10/30/2017	11:46:59	-5	0.0	8.25	14.4										
10/30/2017	11:48:59	5	0.0	8.23	14.4										
10/30/2017	11:50:59	5	0.0	8.22	14.4										
10/30/2017	11:52:59	5	0.0	8.22	14.4										
10/30/2017	11:54:59	5	0.0	8.22	14.4										
10/30/2017	11:55:17	5	0.0	8.22	14.4	Start Cement Slurry									

Well		Field	Job Start	Customer	Job Number	
70 Ranch USX BB 23-2		DJ	Oct/30/2017	Noble	DA6T-01756	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
10/30/2017	11:55:20	9	0.0	8.22	14.4	Good Returns
10/30/2017	11:55:21	9	0.0	8.22	14.4	5.2 bbl @ 15.8 ppg
10/30/2017	11:55:23	9	0.0	8.22	14.4	End Cement Slurry
10/30/2017	11:55:24	5	0.0	8.22	14.4	Start Displacement
10/30/2017	11:55:25	9	0.0	8.22	14.4	7.5 bbl Water
10/30/2017	11:55:26	5	0.0	8.22	14.4	Good Returns
10/30/2017	11:55:27	5	0.0	8.22	14.4	End Displacement

### Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
2.0			2.6	5.2	0.0	5.0	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
2577	9	156				bbl	lb/gal
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input type="checkbox"/>	Volume	bbl
%	5.2 bbl	7.5 bbl	63 degF	Washed Thru Perfs	<input type="checkbox"/>	To	ft
Customer or Authorized Representative	Schlumberger Supervisor			Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
	Matt Leiker			-		-	

				Customer Noble			Job Number DA6T-01766						
Well 70 Ranch USX BB 23-2			Location (legal)			Schlumberger Location			Job Start Oct/31/2017				
Field DJ		Formation Name/Type			Deviation deg		Bit Size in		Well MD ft		Well TVD ft		
County Weld		State/Province Colorado			BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal		
Well Master 0630938039		API/UWI 05123260660000											
Rig Name Ranger 6		Drilled For Oil		Service Via Land		Casing/Liner							
						Depth, ft		Size, in		Weight, lb/ft			
										Grade			
										Thread			
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			
										Grade			
										Thread			
Service Line Cementing		Job Type Plug			T		971.0		2.4		4.7		
					0.0		0.0		0.0		J55		
											8RD		
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 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			Shoe Depth ft				Squeeze Type				
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>			Stage Tool Type				Tool Depth ft				
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Depth ft				Tail Pipe Size in			
Cement Head Type		Job Scheduled For Oct/31/2017				Arrived on Location Oct/31/2017		Leave Location Oct/31/2017		Collar Type 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							
10/31/2017	11:33:46	14	0.0	8.31	0.0	Started Acquisition							
10/31/2017	11:33:51	14	0.0	8.31	0.0	Rig Up							
10/31/2017	11:33:52	14	0.0	8.31	0.0	Hold Safety Meeting							
10/31/2017	11:35:46	14	0.0	8.31	0.0								
10/31/2017	11:37:46	14	0.0	8.21	0.0								
10/31/2017	11:38:18	60	0.7	8.24	0.0	Start Pumping Wash							
10/31/2017	11:39:00	96	2.4	8.24	1.6	10 bbl Chem Wash							
10/31/2017	11:39:46	128	2.5	8.22	3.5								
10/31/2017	11:41:46	142	2.4	8.22	8.3								
10/31/2017	11:42:22	146	2.4	8.22	9.7	End Wash							
10/31/2017	11:42:23	142	2.4	8.22	9.7	Start Pumping Spacer							
10/31/2017	11:43:00	146	2.4	8.22	11.2	5 bbl Water							
10/31/2017	11:43:46	142	2.4	8.22	13.0								
10/31/2017	11:44:00	5	0.0	8.22	13.5	End Spacer							
10/31/2017	11:45:46	2440	0.0	8.22	13.5								
10/31/2017	11:45:52	2435	0.0	8.22	13.5	Pressure Test Lines							
10/31/2017	11:45:54	2435	0.0	8.22	13.5	Test to 2500 psi							
10/31/2017	11:47:46	0	0.0	10.39	13.5								
10/31/2017	11:49:46	0	0.0	11.05	13.5								
10/31/2017	11:51:46	0	0.0	15.79	13.5								
10/31/2017	11:52:10	9	0.0	15.77	13.5	Start Cement Slurry							

Well		Field		Job Start		Customer		Job Number	
70 Ranch USX BB 23-2		DJ		Oct/31/2017		Noble		DA6T-01766	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/31/2017	11:53:46	101	2.6	15.80	16.5				
10/31/2017	11:54:00	101	2.6	15.89	17.1	288 sks @ 1.17 Y			
10/31/2017	11:55:00	101	2.5	15.61	19.6	Bottom Plug @ 990'			
10/31/2017	11:55:46	101	2.5	15.95	21.5				
10/31/2017	11:57:46	179	3.0	15.67	27.4				
10/31/2017	11:59:46	206	3.0	15.62	33.3				
10/31/2017	12:01:46	233	2.9	15.70	39.3				
10/31/2017	12:03:46	284	2.9	15.58	45.2				
10/31/2017	12:05:46	316	2.9	15.66	51.1				
10/31/2017	12:07:46	343	3.0	15.56	57.0				
10/31/2017	12:09:46	362	2.9	15.79	62.9				
10/31/2017	12:11:46	412	2.9	15.67	68.8				
10/31/2017	12:13:46	458	2.9	15.54	74.7				
10/31/2017	12:13:57	27	0.0	16.01	75.0	End Cement Slurry			
10/31/2017	12:15:46	0	0.0	15.36	75.0				
10/31/2017	12:17:46	14	0.0	15.90	75.0				
10/31/2017	12:19:46	18	0.0	15.82	75.0				
10/31/2017	12:21:46	9	0.0	15.83	75.0				
10/31/2017	12:23:46	14	0.0	15.85	75.0				
10/31/2017	12:25:46	18	0.0	15.85	75.0				
10/31/2017	12:27:46	18	0.0	15.85	75.0				
10/31/2017	12:29:46	18	0.0	15.85	75.0				
10/31/2017	12:31:46	18	0.0	15.83	75.0				
10/31/2017	12:33:46	18	0.0	15.83	75.0				
10/31/2017	12:35:46	18	0.0	15.83	75.0				
10/31/2017	12:37:46	18	0.0	15.84	75.0				
10/31/2017	12:39:46	18	0.0	15.85	75.0				
10/31/2017	13:13:46	18	0.0	15.98	75.0				
10/31/2017	13:14:23	18	0.0	15.84	75.0	Start Cement Slurry			
10/31/2017	13:15:00	55	0.0	15.85	75.0	Top Out			
10/31/2017	13:15:46	55	0.0	15.85	75.0				
10/31/2017	13:16:43	55	0.0	15.84	75.0	End Cement Slurry			
10/31/2017	13:17:46	18	0.0	15.90	75.0				
10/31/2017	13:19:07	64	0.0	15.82	75.0	Wash Up			
10/31/2017	13:19:46	46	0.0	12.98	75.0				
10/31/2017	13:21:46	55	0.0	8.51	75.0				
10/31/2017	13:23:46	69	2.3	9.25	77.1				
10/31/2017	13:25:46	82	2.3	8.27	81.8				
10/31/2017	13:27:46	87	2.6	8.23	88.5				
10/31/2017	13:29:46	18	0.0	10.09	90.8				
10/31/2017	13:31:46	23	0.0	8.56	90.8				
10/31/2017	15:45:46	14	0.0	8.33	90.8				
10/31/2017	15:47:46	14	0.0	8.22	90.8				
10/31/2017	15:49:46	5	0.0	11.28	90.8				
10/31/2017	15:51:46	5	0.0	14.88	90.8				
10/31/2017	15:53:46	5	0.0	15.92	90.8				
10/31/2017	15:54:30	5	0.0	15.81	90.8	Start Cement Slurry			
10/31/2017	15:55:00	14	0.0	15.92	90.8	Top Out			
10/31/2017	15:55:46	18	0.0	15.93	90.8				
10/31/2017	15:57:46	14	0.0	15.87	90.8				
10/31/2017	15:59:46	23	0.0	15.95	90.8				
10/31/2017	16:01:46	23	0.0	15.95	90.8				
10/31/2017	16:02:35	23	0.0	15.94	90.8	End Cement Slurry			
10/31/2017	16:03:46	14	0.0	15.85	90.8				

<b>Well</b> 70 Ranch USX BB 23-2	<b>Field</b> DJ	<b>Job Start</b> Oct/31/2017	<b>Customer</b> Noble	<b>Job Number</b> DA6T-01766
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### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 2.7	N2	Mud	Maximum Rate 5.7	Total Slurry 90.8	Mud 0.0	Spacer 0.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2504	Final 14	Average 87	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 60.0 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"/>		
					-	-		