

				Customer NOBLE		Job Number E7RM-00105					
Well CAMOLO RED D 27 -05		Location (legal) 217304		Schlumberger Location Cheyenne		Job Start Mar/20/2019					
Field DJ		Formation Name/Type		Deviation deg		Well MD 701.0 ft					
County WELD		State/Province Colorado		Bit Size in		Well TVD 701.0 ft					
Well Master 631806817		API/UWI 512317007		BHP psi		BHST 90 degF					
Rig Name		Drilled For Oil & Gas		Service Via Land		BHCT 80 degF					
Offshore Zone		Well Class Old		Well Type Other		Pore Press. Gradient lb/gal					
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP							
Service Line Cementing		Job Type STUB PLUG									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 2 3/8" 4.7# T/S							
<b>Service Instructions</b> Stub Plug = 250 sks 1.17 ft3/sk 5.133 gps = 52 bbls Est Toc = Surface Spacer 5 bbls CMT 52 bbls @ 15.8 ppg Displace 0				Casing/Liner							
				Depth, ft		Size, in		Weight, lb/ft			
				701.0		3.5		7.7			
				690.0		8.6		24.0			
				Grade		Thread					
				N/A		N/A					
				N/A		N/A					
				Tubing/Drill Pipe							
				T/D		Depth, ft		Size, in		Weight, lb/ft	
				T		701.0		2.4		4.7	
		0.0		0.0		0.0					
Perforations/Open Hole											
Top, ft		Bottom, ft		shot/ft		No. of Shots					
ft		ft									
ft		ft									
Total Interval ft		Diameter in									
Treat Down Tubing		Displacement 0.0 bbl		Packer Type		Packer Depth ft					
Tubing Vol. 2.0 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 Mar/20/2019				Arrived on Location Mar/20/2019		Leave Location Mar/20/2019					
				Collar Type		Tail Pipe Depth ft					
				Collar Depth ft		Sqz. Total Vol. bbl					
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume B/M	Pressure PSI	Message					
03/20/2019	09:38:45	0.0	0.01	0.0	36	Started Acquisition					
03/20/2019	09:38:46	0.0	0.01	0.0	36	Remark					
03/20/2019	09:38:49	0.0	0.01	0.0	36	Start Job					
03/20/2019	09:38:52	0.0	1.56	0.0	36	Start Pumping Spacer					
03/20/2019	09:43:22	0.0	8.05	0.0	150	kICK oUT 350					
03/20/2019	09:43:46	0.0	8.04	0.0	123						
03/20/2019	09:44:04	0.0	8.04	0.0	2439	Pressure Test Lines					
03/20/2019	09:48:47	0.0	16.08	0.0	81						
03/20/2019	09:51:01	0.0	15.83	1.0	81	End Spacer					
03/20/2019	09:51:19	0.0	15.94	1.0	86	Reset Total, Vol = 5.00 bbl					
03/20/2019	09:51:20	0.0	15.98	1.0	86	Start Cement Slurry					
03/20/2019	09:51:21	0.0	16.00	1.0	86	Remark					
03/20/2019	09:53:48	0.0	15.10	2.2	159						
03/20/2019	09:58:49	0.0	15.63	2.2	246						
03/20/2019	10:03:50	0.0	15.46	0.6	100						
03/20/2019	10:08:51	0.0	15.71	2.2	388						
03/20/2019	10:13:52	0.0	15.79	2.2	77						
03/20/2019	10:18:53	0.0	9.76	0.0	114						
03/20/2019	10:19:07	0.0	9.74	0.0	114	End Cement Slurry					
03/20/2019	10:19:09	0.0	9.73	0.0	114	Reset Total, Vol = 53.01 bbl					
03/20/2019	10:19:23	0.0	9.73	0.0	114	End Job					

<b>Well</b> CAMOLO RED D 27 -05	<b>Field</b> DJ	<b>Job Start</b> Mar/20/2019	<b>Customer</b> NOBLE	<b>Job Number</b> E7RM-00105
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### Post Job Summary

<b>Average Pump Rates, bbl/min</b>					<b>Volume of Fluid Injected, bbl</b>			
<b>Slurry</b> 1.8	<b>N2</b>	<b>Mud</b>	<b>Maximum Rate</b> 2.8		<b>Total Slurry</b> 52.0	<b>Mud</b> 0.0	<b>Spacer</b> 10.0	<b>N2</b>
<b>Treating Pressure Summary, psi</b>					<b>Breakdown Fluid</b>			
<b>Maximum</b> 2453	<b>Final</b> 104	<b>Average</b> 218	<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> 52.0 bbl		<b>Displacement</b> 0.0 bbl	<b>Mix Water Temp</b> 50 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> ERIC			<b>Schlumberger Supervisor</b> Wayne Silvester			<b>Circulation Lost</b> <input type="checkbox"/>		<b>Job Completed</b> <input type="checkbox"/>
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				Customer Noble		Job Number E7RM-00103			
Well Camolo Red D 27-05		Location (legal)		Schlumberger Location		Job Start Mar/19/2019			
Field DJ		Formation Name/Type		Deviation deg		Well MD ft			
County Weld		State/Province Colorado		Bit Size in		Well TVD ft			
Well Master 0631806817		API/UWI 0512317007		BHP psi		BHST degF			
Rig Name Ranger 31		Drilled For Oil		Service Via Land		BHCT degF			
Offshore Zone		Well Class Old		Well Type Workover		Pore Press. Gradient lb/gal			
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP					
Service Line Cementing		Job Type Plug							
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 2 3/8" 4.7# T/S					
<b>Service Instructions</b> Rate and Density Checked Pump 10 bbl Water 10 bbl Chem Wash 175 sks @ 1.17 Y @ 36.5 bbl @ 15.8 ppg Mix Water @ 5.133 gal/sk Displace 2 bbl Water Bottom Plug @ 952' Estimated Top @ 440' <i>Tagged</i>				Casing/Liner					
				Depth, ft		Size, in		Weight, lb/ft	
				Grade		Thread			
				T/D		Depth, ft		Size, in	
				Weight, lb/ft		Grade		Thread	
				T		952.0		2.1	
		0.0		0.0		7.7			
						J55			
						8RD			
				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 2.0 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 Mar/19/2019				Arrived on Location Mar/19/2019		Leave Location Mar/19/2019			
				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			
03/19/2019	11:53:16	0	0.0	8.40	0.0	Started Acquisition			
03/19/2019	11:53:17	0	0.0	8.40	0.0	Rig Up			
03/19/2019	12:05:01	229	2.2	8.38	9.8	Start Pumping Water			
03/19/2019	12:05:03	247	2.2	8.38	9.9	5 bbl Water			
03/19/2019	12:08:47	23	0.0	8.38	17.9	End Water			
03/19/2019	12:11:05	2847	0.0	8.38	18.0	Pressure Test Lines			
03/19/2019	12:11:07	2847	0.0	8.38	18.0	Test Trips			
03/19/2019	12:15:20	247	2.2	8.38	21.2	Start Pumping Wash			
03/19/2019	12:15:21	238	2.2	8.38	21.3	10 bbl Chem Wash			
03/19/2019	12:18:03	18	0.0	8.41	27.0	End Wash			
03/19/2019	12:20:55	101	0.0	15.82	27.0	Start Cement Slurry			
03/19/2019	12:20:56	96	0.0	15.82	27.0	Wet and Dry Samples			
03/19/2019	12:20:57	101	0.0	15.82	27.0	Good Returns			
03/19/2019	12:20:58	101	0.0	15.82	27.0	Bottom Plug @ 952'			
03/19/2019	12:38:11	215	2.2	15.18	64.3	End Cement Slurry			
03/19/2019	12:38:13	220	2.2	14.91	64.4	Start Displacement			
03/19/2019	12:38:14	233	2.2	14.38	64.4	2 bbl Water			
03/19/2019	12:39:04	-18	0.0	8.38	66.1	End Displacement			

<b>Well</b> Camolo Red D 27-05	<b>Field</b> DJ	<b>Job Start</b> Mar/19/2019	<b>Customer</b> Noble	<b>Job Number</b> E7RM-00103
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### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 2.1	N2	Mud	Maximum Rate 4.1	Total Slurry 36.5	Mud 0.0	Spacer 20.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2856	Final 0	Average 209	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 36.5 bbl		Displacement 2.0 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 Eric Peterson			Schlumberger Supervisor Matt Leiker			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
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## Cementing Service Report

				Customer Noble				Job Number E7RM-00091									
Well Camolo Red D 27-05				Location (legal)				Schlumberger Location				Job Start Mar/16/2019					
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		API/UWI 0512317007															
Rig Name Ranger 31		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 Sqz				T		1616.0		2.4		4.7		J55		8RD	
								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		Total Interval ft			
						ft		ft									
						ft		ft						Diameter in			
						ft		ft									
Service Instructions Rate and Density Checked 5 bbl Water 10 bbl Chem Wash 85 sks @ 1.17 Y @ 18 bbl @ 15.8 ppg Mix Water @ 5.104 gal/sk Displace 2.5 bbl Water Bottom Plug @ 1616' Estimated Top @ 1397'						Treat Down Tubing		Displacement 2.5 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 Mar/16/2019		Arrived on Location Mar/16/2019		Leave Location Mar/16/2019		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											
03/16/2019	10:55:51	4	0.0	2.39	0.0	Started Acquisition											
03/16/2019	10:55:52	4	0.0	2.38	0.0	Hold Safety Meeting											
03/16/2019	10:58:56	-1	0.0	8.36	0.0	Start Pumping Water											
03/16/2019	11:00:10	31	0.0	8.38	0.0	Good Returns											
03/16/2019	11:02:37	4	0.0	8.38	4.0	End Water											
03/16/2019	11:03:09	851	0.0	8.38	4.0	Pressure Test Lines											
03/16/2019	11:03:12	851	0.0	8.38	4.0	Test = Good											
03/16/2019	11:04:21	2608	0.0	8.38	4.0	Test to 2500 psi											
03/16/2019	11:04:27	2604	0.0	8.38	4.0	Test = Good											
03/16/2019	11:06:37	49	0.0	8.38	4.0	Start Pumping Wash											
03/16/2019	11:07:22	553	2.2	8.38	4.8	10 bbl Chem Wash											
03/16/2019	11:07:23	544	2.2	8.38	4.8	Good Returns											
03/16/2019	11:11:12	77	0.0	8.13	13.1	End Wash											
03/16/2019	11:16:35	91	0.0	15.78	13.1	Start Cement Slurry											
03/16/2019	11:16:36	91	0.0	15.78	13.1	Wet and Dry Samples											
03/16/2019	11:16:37	91	0.0	15.78	13.1	Good Returns											
03/16/2019	11:16:38	91	0.0	15.78	13.1	Mix Water @ 5.104 gal/sk											
03/16/2019	11:27:02	68	0.0	10.19	13.2	End Cement Slurry											
03/16/2019	11:27:04	68	0.0	9.96	13.2	Start Displacement											
03/16/2019	11:27:06	63	0.0	9.79	13.2	2.5 bbl Water											

Well Camolo Red D 27-05	Field DJ	Job Start Mar/16/2019	Customer Noble	Job Number E7RM-00091
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### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 2.0	N2	Mud	Maximum Rate 2.3	Total Slurry 18.0	Mud 0.0	Spacer 15.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 2622	Final 0	Average 427	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal			
Avg. N2 Percent %	Designed Slurry Volume 18.0 bbl		Displacement 2.5 bbl	Mix Water Temp 53 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl				
					Washed Thru Perfs <input type="checkbox"/>	To ft				
Customer or Authorized Representative Eric Peterson			Schlumberger Supervisor Matt Leiker			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>			
						-	-			