

				Customer NOBLE ENERGY			Job Number 2956772											
Well CAMOLO RED D27-06			Location (legal) WELD			Schlumberger Location CHEYENNE			Job Start Mar/27/2019									
Field DJ		Formation Name/Type			Deviation deg		Bit Size in		Well MD 653.0 ft		Well TVD 653.0 ft							
County WELD		State/Province Colorado			BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal							
Well Master		API/UWI																
Rig Name RANGER# 31		Drilled For Oil & Gas		Service Via Land		Casing/Liner												
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread				
Offshore Zone N/A		Well Class Old		Well Type Workover		653.0		8.6		7.7		N/A		N/A				
						0.0		0.0		0.0								
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 SURFACE PLUG			T		658.0		2.1		3.3		N/A		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		Total Interval ft				
						ft		ft						Diameter in				
						ft		ft										
Service Instructions 240 sks 1.17 ft3/sk 5.1 gps @ 15.8 ppg 5 bbls Water 50 bbls CMT= 240 sks CMT to Surface. 2 bbls To the Tank Rig POOH/Them Top out BOP. 1 bbl CMT to top out SURFACE PLUG Total Volume on CMT= 53 bbls CMT= 254.4 sks						Treat Down Tubing		Displacement 0.0 bbl		Packer Type		Packer Depth ft						
						Tubing Vol. 50.0 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/27/2019		Arrived on Location Mar/27/2019		Leave Location Mar/27/2019		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												
03/27/2019	08:39:28	0	0.0	8.18	0.0	Start Job												
03/27/2019	08:39:31	0	0.0	8.18	0.0	Start Pumping Water												
03/27/2019	08:46:05	50	0.0	8.18	5.0	End Water												
03/27/2019	08:46:06	50	0.0	8.18	5.0	Reset Total, Vol = 5 bbl												
03/27/2019	08:46:52	46	0.0	8.17	0.0	Pressure Test Lines												
03/27/2019	08:53:07	46	0.0	15.52	22.1	Start Cement Slurry												
03/27/2019	09:24:33	-5	0.0	15.37	72.6	End Cement Slurry												
03/27/2019	09:24:36	-5	0.0	15.36	72.6	Reset Total, Vol = 50 bbl												
03/27/2019	09:24:49	-5	0.0	15.35	0.0	Bleed off Pressure												
03/27/2019	09:24:56	-5	0.0	15.35	0.0	Rig POOH												
03/27/2019	09:51:27	-5	0.0	15.43	0.7	1 bbl CMT top out												

Well CAMOLO RED D27-06	Field DJ	Job Start Mar/27/2019	Customer NOBLE ENERGY	Job Number 2956772
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Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry 2.2	N2	Mud	Maximum Rate 3.1	Total Slurry 6.9	Mud 0.0	Spacer 5.0	N2
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum 2473	Final 0	Average 168	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 41.5 bbl	Displacement 0.0 bbl	Mix Water Temp 45 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 0.0 bbl	Washed Thru Perfs <input type="checkbox"/>	To ft
Customer or Authorized Representative ERIC PETERSON			Schlumberger Supervisor LUIS JIMENEZ		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
					-	-	



**Bison Oil Well Cementing
Cement Plug**

Customer: Noble Energy
Well Name: CAMOLO RED D27-6
Job Type: SQUEEZE

INVOICE #: 300276
LOCATION: Weld CO
FOREMAN: JASON
Date: 3/25/2019
API #: 05-123-17008

SEC: 27
TWP: 3N
RNG: 64W
County: Weld
State: CO

Treatment Report

DESCRIPTION OF JOB EVENTS

Amount Pumped	Time/Date	Event	Description	Rate	BBLs	Pressure
% Excess	1350	ARRIVE ON LOCATION	CHECK IN WITH RIG			
Mixed bbls	13.6	1400	MIRU			
Total Sacks	115	1450	JSA			
bbl Returns	1517	PRESSURE TEST	PRESSURE TEST 1500 PSI & 800 PSI			1500
Water Temp	45	1522	SPACER	1.5	5	420
		1526	SPACER	1.7	10	480
Notes:		1531	SPACER	1.7	5	520
		1533	CEMENT	2	23.5	150
RETAINER SET @ 1591	1545	DISPLACE	115 SKS MIXED AT 15.8 PPG	2	2.5	700
PERFS @ 1700	1546	SHUT DOWN				
TOC I/S 1372	1547	DISPLACE	WATER SUPPLIED BY RIG	1	1	100
TOC O/S 1393	1548	SHUT DOWN				
	1552	RIG DOWN				
	1630	LEAVE LOCATION				

X Signature

X Title

X 3/25/19 Date

				Customer Noble			Job Number 2956047						
Well Camolo Red D 27-06			Location (legal)			Schlumberger Location			Job Start Mar/26/2019				
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 512317008											
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 Stub			T		810.0		2.1		3.3		
							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	
												Total Interval ft	
												Diameter in	
						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 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/26/2019		Arrived on Location Mar/26/2019		Leave Location Mar/26/2019		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							
03/26/2019	17:13:11	0	0.0	8.41	0.0	Started Acquisition							
03/26/2019	17:13:18	0	0.0	8.41	0.0	Sensors Checked							
03/26/2019	17:13:19	0	0.0	8.41	0.0	Establish Circulation							
03/26/2019	17:13:24	0	0.0	8.41	0.0	Start Job							
03/26/2019	17:18:12	526	1.0	8.33	0.2								
03/26/2019	17:20:12	46	0.0	8.34	1.7	Pressure Test Lines							
03/26/2019	17:23:13	46	0.0	8.34	1.7								
03/26/2019	17:24:28	60	0.0	8.34	1.7	Start Pumping Wash							
03/26/2019	17:28:14	261	2.0	8.35	8.4								
03/26/2019	17:29:12	233	2.1	8.33	10.4	End Wash							
03/26/2019	17:33:12	55	0.0	15.57	11.9	Start Cement Slurry							
03/26/2019	17:33:15	55	0.0	15.65	11.9								
03/26/2019	17:38:16	334	1.0	15.95	17.8								
03/26/2019	17:43:17	284	1.6	15.83	25.6								
03/26/2019	17:46:12	110	1.4	15.41	29.3	End Cement Slurry							
03/26/2019	17:48:12	60	0.0	8.51	30.0	End Displacement							
03/26/2019	17:48:18	60	0.0	8.49	30.0								

Well Camolo Red D 27-06	Field DJ	Job Start Mar/26/2019	Customer Noble	Job Number 2956047
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Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry 1.6	N2	Mud	Maximum Rate 2.1	Total Slurry 18.0	Mud 0.0	Spacer 10.0	N2
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum 2188	Final 0	Average 313	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 18.0 bbl	Displacement 2.0 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 Eric Peterson			Schlumberger Supervisor Justin Zika		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
					-	-	