



# Cementing Service Report

				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
		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
					658.0	2.1	3.3
					0.0	0.0	
Service Line Cementing	Job Type SURFACE PLUG		Perforations/Open Hole				
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection 2 3/8" 4.7# T/S		Top, ft	Bottom, ft	shot/ft	No. of Shots
				ft	ft		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  
Well Name  
Job Type

Noble Energy  
CAMOLO RED D27-6  
SQUEEZE

INVOICE #  
LOCATION  
FOREMAN  
Date  
API #

300276  
Weld CO  
JASON  
3/25/2019  
05-123-17008

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

## Treatment Report

### DESCRIPTION OF JOB EVENTS

[illegible]

X

Signature

X

Title

3

Date \_\_\_\_\_



## Cementing Service Report

				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
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					
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 Sensors Checked Pump 2 bbls H2O Psi Test Pump 10 bbls Chem Wash Pump 18 bbls Of 15.8 ppg Displace 2 bbls H2O Estimated TOC 564' Bottom Plug 810' <b>8 5 sks</b>				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"/>			
					-	-			