

# Cementing Service Report

				Customer Noble			Job Number EE3K-00043		
Well Spike State GWS C 24-04			Location (legal)		Schlumberger Location Cheyenne			Job Start Aug/15/2019	
Field DJ		Formation Name/Type		Deviation deg	Bit Size in		Well MD 6698.0 ft		Well TVD 6698.0 ft
County Weld		State/Province CO		BHP psi	BHST 220 degF	BHCT 210 degF	Pore Press. Gradient lb/gal		
Well Master Requested		API/UWI 05123157890000							
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 Rigless		6698.0	2.9	6.5	J55	8RD	
				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 MIT Plug			T	6698.0	1.7	2.3	N/A	N/A
					0.0	0.0	0.0		
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection		Perforations/Open Hole					
				Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
				ft	ft			ft	
				ft	ft			Diameter	
				ft	ft			in	
Service Instructions 15 sks Y =1.16 ft3/sk 28.6 bbl Fresh Water 3.1 bbl 15.8 ppg 10.4 bbl Fresh Water Est. TOC = 6177'				Treat Down Tubing	Displacement 10.4 bbl	Packer Type	Packer Depth ft		
				Tubing Vol. 11.3 bbl	Casing Vol. bbl	Annular Vol. 28.6 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 Aug/15/2019	Arrived on Location Aug/15/2019	Leave Location Aug/15/2019		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			
08/15/2019	17:12:49	3	0.3	8.17	23.0	Started Acquisition			
08/15/2019	17:13:00	3	0.3	8.17	23.1	Start Job			
08/15/2019	17:20:00	6	0.3	8.25	30.1	Fill Lines			
08/15/2019	17:22:30	1207	0.1	8.15	0.2	Low Pressure Test Lines			
08/15/2019	17:23:45	2044	0.1	8.15	0.4	High Pressure Test Lines			
08/15/2019	17:30:00	714	0.7	8.14	0.4	Establish Pumping Down Tubing			
08/15/2019	17:32:39	797	0.1	8.14	1.1	Start Pumping Down Annulus			
08/15/2019	17:48:00	633	2.5	8.15	25.8	28.6 bbl Fresh Water			
08/15/2019	17:49:00	479	2.0	8.15	28.3	End Water			
08/15/2019	17:52:00	789	0.1	8.15	0.2	Wet Samples Taken			
08/15/2019	17:52:30	817	0.5	12.07	0.3	Start Cement Slurry			
08/15/2019	17:55:00	641	1.2	15.85	2.7	3.1 bbl 15.8 ppg			
08/15/2019	17:55:37	521	1.0	12.28	0.0	End Cement Slurry			
08/15/2019	18:05:00	223	0.9	8.15	10.1	10.4 bbl Fresh Water			
08/15/2019	18:05:05	129	0.2	8.15	10.1	End Displacement			

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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 1.2	N2	Mud	Maximum Rate 2.8		Total Slurry 3.1	Mud 0.0	Spacer 28.6	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 2115	Final 0	Average 432	Bump Plug to	Breakdown	Type		Volume bbl		Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 3.1 bbl		Displacement 10.4 bbl		Mix Water Temp 80 degF		Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl
								Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative Chris Mathias				Schlumberger Supervisor Ken Sovereign				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
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DATE 2/24/20  
FIELD TICKET #

[illegible]



