

				Customer			Job Number					
				Noble			EE3K-00043					
Well		Location (legal)			Schlumberger Location			Job Start				
Spike State GWS C 24-04					Cheyenne			Aug/15/2019				
Field		Formation Name/Type			Deviation		Bit Size		Well MD	Well TVD		
DJ					deg		in		6698.0 ft	6698.0 ft		
County		State/Province			BHP		BHST		BHCT		Pore Press. Gradient	
Weld		CO			psi		220 degF		210 degF		lb/gal	
Well Master		API/UWI										
Requested		05123157890000										
Rig Name		Drilled For		Service Via		Casing/Liner						
		Oil		Land								
						Depth, ft	Size, in	Weight, lb/ft	Grade	Thread		
Offshore Zone		Well Class		Well Type		6698.0	2.9	6.5	J55	8RD		
		Old		Rigless		0.0	0.0	0.0				
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe						
		lb/gal		cP								
						T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Service Line		Job Type					T	6698.0	1.7	2.3	N/A	N/A
Cementing		MIT Plug						0.0	0.0	0.0		
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection		Perforations/Open Hole						
psi		psi				Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval		
						ft	ft			ft		
Service Instructions						ft	ft			Diameter		
15 sks Y = 1.16 ft3/sk						ft	ft			in		
28.6 bbl Fresh Water						Treat Down	Displacement		Packer Type		Packer Depth	
3.1 bbl 15.8 ppg						Tubing	10.4 bbl				ft	
10.4 bbl Fresh Water						Tubing Vol.	Casing Vol.		Annular Vol.		Openhole Vol.	
Est. TOC = 6177'						11.3 bbl	bbl		28.6 bbl		bbl	
Casing/Tubing Secured		1 Hole Vol. Circulated prior to Cement				Casing Tools			Squeeze Job			
<input checked="" type="checkbox"/>		<input type="checkbox"/>										
Lift Pressure		psi			Shoe Type			Squeeze Type				
Pipe Rotated		Pipe Reciprocated				Shoe Depth			Tool Type			
<input type="checkbox"/>		<input type="checkbox"/>				ft						
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type			Tool Depth			
									ft			
Cement Head Type					Stage Tool Depth			Tail Pipe Size				
					ft			in				
Job Scheduled For		Arrived on Location		Leave Location		Collar Type			Tail Pipe Depth			
Aug/15/2019		Aug/15/2019		Aug/15/2019					ft			
						Collar Depth			Sqz. Total Vol.			
						ft			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						

<b>Well</b> Spike State GWS C 24-04	<b>Field</b> DJ	<b>Job Start</b> Aug/15/2019	<b>Customer</b> Noble	<b>Job Number</b> EE3K-00043
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### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
<b>Slurry</b> 1.2	<b>N2</b>	<b>Mud</b>	<b>Maximum Rate</b> 2.8	<b>Total Slurry</b> 3.1	<b>Mud</b> 0.0	<b>Spacer</b> 28.6	<b>N2</b>	
Treating Pressure Summary, psi					Breakdown Fluid			
<b>Maximum</b> 2115	<b>Final</b> 0	<b>Average</b> 432	<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> 3.1 bbl	<b>Displacement</b> 10.4 bbl	<b>Mix Water Temp</b> 80 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> Chris Mathias			<b>Schlumberger Supervisor</b> Ken Sovereign		<b>Circulation Lost</b> <input type="checkbox"/>	<b>Job Completed</b> <input checked="" type="checkbox"/>		
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# Superior Energy

## TREATMENT REPORT

P.O. BOX 329  
FORT LUPTON, CO 80621  
303-654-9202

DATE 2/24/00  
FIELD TICKET # \_\_\_\_\_

WELL NAME & NO. <i>Spike State C 24-4</i>		LOC. <i>46/65 WCR</i>	SERIAL # <i>05-123-15789</i>	LIFT PRESSURE & POP OFF LIFT: <u>1900</u> POP OFF: <u>1250</u>	
PUMP: <i>4787</i>	BULK: <i>2884</i>	JOB PUMPED THRU:	TUBING	CASING	ANNULUS
COUNTY: <i>Weld</i>	STATE: <i>CO</i>	WELL TYPE:	OIL	GAS	WATER INJ.
CUSTOMER NAME: <i>Noble / Tom</i>		AGE OF WELL:	NEW	REWORK	
JOB SUPERVISOR: <i>Ramon Villalobos</i>		JOB TYPE:	<i>P+A</i>		
SERVICE RATED:		POOR	FAIR	EXCELLENT	

REMARKS: <i>Cement weigh verified by Sealey G Cement = 185 sacks</i>	WELL INFORMATION	
	DESCRIPTION	DEPTH
	<i>T/Perf</i>	<i>2000</i>
	<i>B/Perf</i>	<i>2500</i>
	<i>External TOC</i>	<i>2000</i>
	<i>TOC &amp; C</i>	<i>2,046</i>

TIME	INJECTION		PRESSURE		CEMENT SLURRY		REMARKS
	RATE	BBLS IN	CSG	TBG	WEIGHT	YIELD	
<i>9:05</i>							<i>Arrive to location / walk location</i>
<i>9:40</i>							<i>ISA on R/V show R/V</i>
<i>10:10</i>							<i>ISA on pump schedule</i>
<i>10:25</i>	<i>.5</i>	<i>.5</i>		<i>1,500</i>	<i>8.3</i>		<i>Test Iron + Pop off</i>
<i>10:30</i>	<i>.6</i>	<i>10</i>		<i>1000</i>	<i>8.3</i>		<i>Mud flush</i>
<i>10:50</i>	<i>.6</i>	<i>5</i>		<i>1000</i>	<i>8.3</i>		<i>Spacer</i>
<i>11:00</i>	<i>.7</i>	<i>38</i>		<i>1000</i>	<i>15.8</i>	<i>1.15</i>	<i>mix + Pump 185 sacks</i>
<i>11:40</i>	<i>.7</i>	<i>2.5</i>		<i>900</i>	<i>8.3</i>		<i>Displace H<sub>2</sub>O</i>
<i>1:45</i>	<i>.8</i>	<i>2</i>		<i>700</i>	<i>8.3</i>		<i>String out / Pump H<sub>2</sub>O</i>
<i>1:50</i>							<i>Shutdown / open Bleeds</i>
<i>2:00</i>							<i>Washdown / Flush</i>
<i>2:20</i>							<i>Blowdown</i>
<i>2:45</i>							<i>R/O</i>
<i>1:00</i>							<i>Leave location.</i>
							<i>mud flush = 10 BBL</i>
							<i>G Cement = 185 sacks</i>
							<i>seger = 100 LBS</i>

