



# Great Western Operating Company, LLC

## Surface Post Job Report

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Sack KE 21-279HN (API 05-123-46997)

S:21 T:1N R:66W Weld CO

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# Great Western Operating Company, LLC

Great Western Operating Company, LLC | 1801 Broadway, Suite 500 | Denver, CO 80202

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Dear Great Western Operating Company,

Thank you for the opportunity to provide cementing services on this well. BJ Services strives to achieve complete customer satisfaction. If you have any questions regarding the services or data provided, please contact BJ Services at any time.

Sincerely,  
Karl Griesser  
Field Engineer I | (713) 829-7498 | [karl.griesser@bjservices.com](mailto:karl.griesser@bjservices.com)

Field Office 1716 East Allison Rd., Cheyenne WY, 82007  
Phone: (307) 638-5585

Sales Office 999 18th St. Suite 1200 Denver, CO 80202  
Phone: (281) 408-2361

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# Cementing Treatment



<b>Start Date</b>	7/1/2018	<b>Project ID</b>	PRJ1008215
<b>End Date</b>	7/1/2018	<b>Field Ticket#</b>	FT-08297-F4W2L90202-60692
<b>Client</b>	GREAT WESTERN OPERATING COMPANY, LLC	<b>Well</b>	SACK KE 21-279HN
<b>Service Sup.</b>	Hamza Busheri	<b>API#</b>	05-123-46997
<b>District</b>	Cheyenne, WY	<b>County</b>	WELD
<b>Type of Job</b>	Surface	<b>State/Province</b>	CO
<b>Execution ID</b>	EXC-08297-F4W2L902		

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	13.50			1,524.00	1,524.00	15.00		
Casing	8.92	9.63	36.00	1,524.00	1,524.00		J-55	LTC

Shoe Length (ft): 45

## HARDWARE

<b>Bottom Plug Used?</b>	No	<b>Tool Depth (ft)</b>	1,479.49
<b>Top Plug Used?</b>	Yes	<b>Max Casing Pressure - Rated (psi)</b>	3,520.00
<b>Top Plug Provided By</b>	Non BJ	<b>Max Casing Pressure - Operated (psi)</b>	2,800.00
<b>Top Plug Size</b>	9.630	<b>Pipe Movement</b>	None
<b>Centralizers Used</b>	Yes	<b>Job Pumped Through</b>	Cement Head
<b>Landing Collar Depth (ft)</b>	1,479	<b>Top Connection Thread</b>	8 rd
<b>Tool Type</b>	Float Collar	<b>Top Connection Size</b>	9.63

## CIRCULATION PRIOR TO JOB

<b>Well Circulated By</b>	Rig	<b>Solids Present at End of Circulation</b>	No
<b>Circulation Prior to Job</b>	Yes	<b>Flare Prior to/during the Cement Job</b>	No
<b>Lost Circulation Prior to Cement Job</b>	No	<b>Gas Present</b>	No

## TEMPERATURE

<b>Ambient Temperature (°F)</b>	63.00	<b>Slurry Cement Temperature (°F)</b>	69.00
<b>Mix Water Temperature (°F)</b>	68.00		

# Cementing Treatment



## BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Water	8.3300			0.00				20.0000
Tail Slurry	BJCem S100.3.XC	14.5000	1.3901	6.78	0.00	1,500.00	619	861.0000	153.2000
Displacement Final	Water	8.3300			0.00				113.2000

Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	BJCem S100.3.XC	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem S100.3.XC	FOAM PREVENTER, FP-13L	0.0300	GALS/SK

## TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Comments
7/1/2018 10:30 AM	Water	5.00	20.00	0.00	20 Bbls Fw Spacer w/ dye
7/1/2018 10:42 AM	BJCem S100.3.XC	5.00	163.20	86.00	163 Bbls primary
7/1/2018 11:22 AM	Water	7.50	114.20	550.00	114.2 Bbls disp

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	30.00
Calculated Displacement Volume (bbls)	113.20	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	114.20	Amount of Spacer to Surface	20.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0
Bump Plug	Yes	Amount Bled Back After Job	0
Bump Plug Pressure (psi)	1,136.00	Total Volume Pumped (bbls)	308
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Yes	Lost Circulation During Cement Job	No

# EVENT LOG



**Customer** GREAT WESTERN OPERATING  
**Name:** COMPANY, LLC  
**Well Name:** SACK 21-279HN  
**Job Type:** Surface  
**Quote ID:** QUO-14001-D5V7V1 **District:** Cheyenne, WY  
**Plan ID:** ORD-08297-F4W2L9  
**Execution ID:** EXC-08297-F4W2L902 **BJ Supervisor:** Hamza Busheri

Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
07/01/2018 06:45	Safety Meeting					Pre-job STEACS
07/01/2018 6:53	Rig Up					Rigup Equipment
07/01/2018 08:15	Other (See comment)					Rig Running Casing
07/01/2018 10:23	Safety Meeting					SM w/ CoMan and 3rd Party, Rig up PLH
07/01/2018 10:30	Start Pumping	8.3400	3.00	5.00	0.00	Break Circulation, prime lines, 5 Bbls FW
07/01/2018 10:32	Pressure Test				3,000.00	Pressure Test 3000PSI
07/01/2018 10:35	Pump Spacer	8.3400	5.00	15.00	0.00	Pump 15 Bbls Fw Spacer w/ dye
07/01/2018 10:42	Pump Tail Cement	14.5000	5.00	163.00	86.00	Pumped 163 Bbls Primary @ 14.5#
07/01/2018 11:22	Drop Top Plug					Shut Down/ Drop top Plug
07/01/2018 11:23	Pump Displacement	8.3400	7.50	114.20	553.00	Pumped 114.2 Bbls Disp Bumped Plug
07/01/2018 11:44	Land Plug				1,136.00	Bumped plug @ 1136PSi Check Floats
07/01/2018 12:01	Check Floats					Floats Held, 0.5 Bbls returned to truck
07/01/2018 12:02	Rig Down					Rig Down Equipment
07/01/2018 13:33	Leave Location					Post Job STEACS, AAR, Leave location for yard

