



# Great Western Operating Company, LLC

POSTLE IC 09-179HN

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API # 05-123-47378

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## Surface

January 29, 2020

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Quote #: QUO-41599-Q9S2Z2

Execution #: EXC-24159-L7L2C902



# 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, LLC,

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,  
Jason Creel  
Field Engineer I | (307) 256-0306 | [Jason.Creel@BJServices.com](mailto:Jason.Creel@BJServices.com)

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

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

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# BJ Cementing Treatment Report

SERVICE SUPERVISOR	Chad Johnson	RIG	Ikon 12
DISTRICT	Cheyenne, WY	COUNTY	WELD
SERVICE	Cementing	STATE / PROVINCE	CO

## WELL GEOMETRY

TYPE	ID (in)	OD (in)	WEIGHT (lb/ft)	MD (ft)	TVD (ft)	EXCESS (%)	GRADE	THREAD
Casing	8.92	9.63	36.00	1,551.00	1,551.00		J-55	LTC
Open Hole	13.50	0.00	0.00	1,551.00	1,551.00	30.00		

## HARDWARE

Bottom Plug Used?	No	Centralizers Type	Bow
Top Plug Used?	Yes	Landing Collar Depth (ft)	1,506.84
Top Plug Provided By	Non BJ	Pipe Movement	None
Top Plug Size	9.630	Job Pumped Through	Manifold
Centralizers Used	Yes	Top Connection Thread	LTC
Centralizers Quantity	15.00	Top Connection Size	9.63

## CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Mud Density In (ppg)	8.40
Circulation Prior to Job	Yes	Mud Density Out (ppg)	8.40
Circulation Time (min)	30.00	Solids Present at End of Circulation	No
Circulation Rate (bpm)	8.00	Flare Prior to / during the Cement Job	No
Circulation Volume (bbls)	240.00	Gas Present	No
Lost Circulation Prior to Cement Job	No		

## TEMPERATURE

Ambient Temperature (°F)	34.00	Mix Water Temperature (°F)	60.00
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## FLUID DETAILS

FLUID TYPE	FLUID NAME	DENSITY (ppg)	YIELD (Cu Ft/sk)	H <sub>2</sub> O REQ (gals/sk)	PLN TOP FLD (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	1.3902	6.81	0.00	1,525.00	710	987.0000	175.6000
Displacement Final	Water	8.3300			0.00			0.0000	114.7000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Tail Slurry	BJCem S100.3.XC	CEMENT, ASTM TYPE III	100.0000	PCT

## DISPLACEMENT AND END OF JOB SUMMARY

<b>Displaced By</b>	BJ	<b>Amt of Cement Returned / Reversed</b>	36.00
<b>Calculated Displacement Vol (bbls)</b>	116.00	<b>Method Used to Verify Returns</b>	Visual
<b>Actual Displacement Vol (bbls)</b>	116.00	<b>Amt of Spacer to Surface</b>	20.00
<b>Did Float Hold?</b>	Yes	<b>Pressure Left on Casing (psi)</b>	0.00
<b>Bump Plug</b>	Yes	<b>Amt Bled Back After Job</b>	0.50
<b>Bump Plug Pressure (psi)</b>	500.00	<b>Total Volume Pumped (bbls)</b>	320.00
<b>Were Returns Planned at Surface</b>	Yes	<b>Top Out Cement Spotted</b>	No
<b>Cement Returns During Job</b>	Yes	<b>Lost Circulation During Cement Job</b>	No

# BJ Cementing Event Log

Surface - Cheyenne, WY - Chad Johnson

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	01/28/2020 17:30	Callout					Crew called out requested on location for 2330
2	01/28/2020 21:30	Arrive on Location					Crew arrived on location
3	01/28/2020 21:35	STEACS Briefing					Safety meeting
4	01/28/2020 21:50	Spot Units					Spotted all units
5	01/28/2020 21:55	Rig Up					Rigged up all equipment
6	01/28/2020 22:45	Client					Waiting on rig to finish running casing and circulate the well
7	01/29/2020 01:00	STEACS Briefing					Safety meeting
8	01/29/2020 01:43	Prime Up	8.3400	3.00	5.00	50.00	Fill lines
9	01/29/2020 01:45	Pressure Test					Pressure test lines to 2000 psi
10	01/29/2020 01:49	Pump Spacer	8.3400	6.00	20.00	100.00	Pump water spacer
11	01/29/2020 01:52	Pump Tail Cement	14.5000	6.00	176.00	250.00	Pump cement (710 sks, 1.39Y, 6.81 gal/sk)
12	01/29/2020 02:39	Other (See comment)					Shutdown
13	01/29/2020 02:43	Drop Top Plug					Drop top plug
14	01/29/2020 02:44	Pump Displacement	8.3400	6.00	100.00	400.00	Pump displacement
15	01/29/2020 03:02	Cement Back-to-Surface					Cement back to surface, 36 bbls cement to surface
16	01/29/2020 03:05	Other (See comment)	8.3400	3.00	16.00	400.00	Slow rate
17	01/29/2020 03:10	Land Plug					Land plug at 500 psi. 15 min csg test: start 1255 psi, end 1269 psi.
18	01/29/2020 03:26	Check Floats					Check floats, floats holding, 0.5 bbls back
19	01/29/2020 03:30	STEACS Briefing					Safety meeting
20	01/29/2020 03:45	Rig Down					Rigged down all equipment
21	01/29/2020 05:00	Leave Location					Crew departed location

Client: Great Western Operating Company, LLC

Well Name / API: POSTLE IC 09-179HN / 05-123-47378



Quote #: QUO-41599-Q9S2Z2

Plan #: ORD-24159-L7L2C9

Execution #: EXC-24159-L7L2C902



JobMaster Program Version 4.02C1

Job Number:

Customer: Great Western

Well Name: Postle IC 09-179HN

