



Great Western Operating Company, LLC

POSTLE IC 09-099HN

API # 05-123-47400

Surface

February 05, 2020

Quote #: QUO-41612-R8D1M9

Execution #: EXC-24357-R4C1B702



Great Western Operating Company, LLC

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

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

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

BJ Cementing Treatment Report

SERVICE SUPERVISOR	Eric Dewit	RIG	Ikon 12
CLIENT FIELD REPRESENTATIVE	Kyle		
DISTRICT	Cheyenne, WY	COUNTY	WELD
SERVICE	Cementing	STATE / PROVINCE	CO

TYPE	ID (in)	OD (in)	WEIGHT (lb/ft)	MD (ft)	EXCESS (%)	GRADE	THREAD
Open Hole	13.50	0.00	0.00	1,549.00	30.00		
Casing	8.92	9.63	36.00	1,549.00		J-55	LTC

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	1,506.81
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	3000.00
Top Plug Size	9.625	Max Casing Pressure - Operated (psi)	1500.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	15.00	Job Pumped Through	Manifold
Centralizers Type	Bow	Top Connection Thread	LTC
Landing Collar Depth (ft)	1,506.81	Top Connection Size	9.625

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
Lost Circulation Prior to Cement Job	No	Flare Prior to / during the Cement Job	No
		Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	21.00	Slurry Cement Temperature (°F)	56.00
Mix Water Temperature (°F)	55.00		

FLUID DETAILS

FLUID TYPE	FLUID NAME	DENSITY (ppg)	YIELD (Cu Ft/sk)	H ₂ 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

Displaced By	BJ	Amt of Cement Returned / Reversed	35.00
Calculated Displacement Vol (bbls)	115.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	115.00	Amt of Spacer to Surface	20.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amt Bled Back After Job	0.50
Bump Plug Pressure (psi)	1247.00	Total Volume Pumped (bbls)	312.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement Returns During Job	Yes	Lost Circulation During Cement Job	No

BJ Cementing Event Log

Surface - Cheyenne, WY - Eric Dewit

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	02/05/2020 11:00	Callout					Customer calls with an RTS of 17:00 on 2/5/20
2	02/05/2020 14:30	Depart for Location					
3	02/05/2020 16:30	Arrive on Location					Arrive on location rig is running casing
4	02/05/2020 16:30	STEACS Briefing					Pre-rig up safety meeting
5	02/05/2020 16:40	Spot Units					
6	02/05/2020 16:45	Rig Up					
7	02/05/2020 17:25	STEACS Briefing					Pre-job safety meeting with BJ crew, Rig crew, and Company man
8	02/05/2020 17:45	Other (See comment)	8.3400	2.70	2.00	462.00	Load lines with 2 bbls of fresh water
9	02/05/2020 17:47	Pressure Test	8.3400	0.00	0.00	2765.00	
10	02/05/2020 17:50	Pump Spacer	8.3400	5.70	20.00	289.00	Pump 20 bbls of fresh water ahead
11	02/05/2020 17:53	Pumping Cement	14.5000	4.10	175.00	274.00	Pump 710 sks of cement @14.5 ppg
12	02/05/2020 18:42	Drop Top Plug					Shut down and drop the plug
13	02/05/2020 18:44	Pump Displacement	8.3400	7.40	0.00	403.00	Send plug start fresh water displacement
14	02/05/2020 18:54	Spacer Back-to-Surface	8.3400	7.40	60.00	850.00	
15	02/05/2020 18:57	Cement Back-to-Surface	8.3400	7.40	80.00	900.00	35 bbls of cement to surface
16	02/05/2020 18:59	Other (See comment)	8.3400	2.80	95.00	595.00	Drop rate to land the plug
17	02/05/2020 19:06	Land Plug	8.3400	2.80	115.00	1247.00	Land the plug with 1245 psi. 15 min csg test: start 1245 psi, end 1241 psi.
18	02/05/2020 19:21	Check Floats	8.3400	0.00	0.00	0.00	Floats held (.5 bbls back)
19	02/05/2020 19:23	STEACS Briefing					Pre-rig down safety meeting
20	02/05/2020 19:30	Rig Down					Rig down



JobMaster Program Version 5.00C1
Job Number: 21064
Customer: Great Western
Well Name: Postle IC 09-099HN

