



Great Western Operating Company

Seltzer LD 09-379HC

API # 05-001-10193

Top Out

April 02, 2020

Quote #: QUO-44433-V7S7L2

Execution #: EXC-25607-Q2D5B502



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	Chad Johnson	RIG	IKON 12
DISTRICT	Cheyenne, WY	COUNTY	ADAMS
SERVICE	Cementing	STATE / PROVINCE	CO

WELL GEOMETRY

TYPE	ID (in)	OD (in)	WEIGHT (lb/ft)	MD (ft)	TVD (ft)	GRADE	THREAD
Open Hole	13.50	0.00	0.00	60.00	60.00		
Casing	8.92	9.63	36.00	60.00	60.00	J-55	LTC

HARDWARE

Bottom Plug Used?	No	Pipe Movement	None
Top Plug Used?	No	Job Pumped Through	No Manifold
Centralizers Used	No		

CIRCULATION PRIOR TO JOB

Circulation Prior to Job	No	Solids Present at End of Circulation	No
Lost Circulation Prior to Cement Job	No	Flare Prior to / during the Cement Job	No

TEMPERATURE

Ambient Temperature (°F)	50.00	Mix Water Temperature (°F)	60.00
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FLUID DETAILS

FLUID TYPE	FLUID NAME	DENSITY (ppg)	YIELD (Cu Ft/sk)	H ₂ O REQ (gals/sk)	LENGTH (ft)	VOL (sk)	VOL (Cu Ft)	VOL (bbls)
Tail Slurry	BJCem S100.3.XC	14.5000	1.3902	6.81	200.00	126	175.0000	31.2000

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

Calculated Displacement Vol (bbls)	0.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	0.00	Amt of Spacer to Surface	0.00
Were Returned Planned at Surface	Yes	Pressure Left on Casing (psi)	0.00
Cement Returns During Job	Yes	Top Out Cement Spotted	Yes
Amt of Cement Returned / Reversed	2.00	Lost Circulation During Cement Job	No

Client: Great Western Operating Company, LLC

Well: SELTZER LD 09-379HC

Well API: 05-001-10193

Start Date: 4/2/2020

End Date: 4/2/2020



BJ Cementing Event Log

Top Out - Cheyenne, WY - Chad Johnson

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	04/02/2020 02:15	STEACS Briefing					Safety meeting
2	04/02/2020 02:34	Other (See comment)					Batch mix Cement. Tie into 1" parasite string run in 13.5" x 9-5/8" annulus to 60'.
3	04/02/2020 02:37	Pump Tail Cement	14.5000	0.50	31.20	50.00	Pump cement (126 sks, 1.39 Y, 6.81 gal/sk)
4	04/02/2020 03:20	Other (See comment)					Shutdown when cement returned to surface, got 2 bbls cement back to surface, wash pumps and lines out and rig up for next job



JobMaster Program Version 5.00C1

Job Number:

Customer: Great Western

Well Name: Seltzer LD 09-379HC

