



Great Western Operating Company, LLC

OTTESEN LE 09-369HNX

API # 05-123-49309

Top Out

April 1, 2020

Quote #: QUO-44418-H9V6S0

Execution #: EXC-25596-K0P4L902



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	WM 454
DISTRICT	Cheyenne, WY	COUNTY	WELD
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			200.00	200.00		
Casing	8.92	9.63	36.00	200.00	200.00	J-55	LTC

HARDWARE

Bottom Plug Used?	No	Max Tubing Pressure - Operated (psi)	500.00
Top Plug Used?	No	Pipe Movement	None
Centralizers Used	No	Job Pumped Through	No Manifold
Landing Collar Depth (ft)	158	Top Connection Thread	LTC
Max Tubing Pressure - Rated (psi)	2000.00	Top Connection Size	1

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
		Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	55.00	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)
Tail Slurry	BJCem S100.3.XC	14.5000	1.3902	6.81	0.00	200.00	103	143.0000	25.5000

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

Client: Great Western Operating Company, LLC

Well: OTTESEN LE #09-369HNX

Well API: 05-123-49309

Start Date: 4/1/2020

End Date: 4/1/2020



DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Spacer to Surface	2.00
Calculated Displacement Vol (bbls)	0.00	Pressure Left on Casing (psi)	0.00
Actual Displacement Vol (bbls)	0.00	Amt Bled Back After Job	0.00
Were Returned Planned at Surface	Yes	Total Volume Pumped (bbls)	27.50
Cement Returns During Job	Yes	Top Out Cement Spotted	Yes
Amt of Cement Returned / Reversed	3.50	Lost Circulation During Cement Job	No
Method Used to Verify Returns	Visual		

BJ Cementing Event Log

Top Out - Cheyenne, WY - Eric Dewit

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	04/01/2020 12:45	Callout					Customer call with an OL time of 16:45 on 4/1/20 Crew gets equipment and materials ready to travel to location
2	04/01/2020 15:45	Depart for Location					Crew leaves yard to travel to location
3	04/01/2020 17:45	Arrive on Location					Arrive on location, Rig ran 1" tubing in 13.5" x 9-5/8" annulus to top of cement at 206'. Pre-rig up safety meeting before spotting trucks.
4	04/01/2020 17:45	Spot Units					
5	04/01/2020 17:55	Rig Up					Rig up everything for the top job, and the surface.
6	04/01/2020 18:45	Rig					Waiting on rig to finish running casing (going to pump the top job right before the surface)
7	04/01/2020 20:58	STEACS Briefing					Pre-job safety meeting for the top job and the surface
8	04/01/2020 21:15	Other (See comment)	8.3400	0.60	2.00	49.00	Pump 2 bbls ahead to make sure the 1" tubing is clear
9	04/01/2020 21:20	Pumping Cement	14.5000	1.00	25.50	113.00	Batch, and pump 103 sks of cement @14.5 (got cement to surface @22 bbls away, stopped mixing, and pumped the 3.5 bbls we had left in the tub)
10	04/01/2020 21:51	Wash Pumps and Lines					Shut down, and washed pumps and lines, Rig tried to pull the 1" tubing out of the hole but was unable to (there will be a Misc. charge on the ticket for the cost of tubing, \$512.30)
11	04/01/2020 21:54	Rig Down					Release from well.



JobMaster Program Version 5.00C1
Job Number: 22033
Customer: Great Western
Well Name: Ottesen LC 09-369HNX

