



Great Western Operating Company, LLC

Schaefer LD 13-032HN

API # 05-001-10255

Surface Top Out

12/11/2018

Quote #: 24211

Execution #: 13906



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	Victor Corona-Marta	RIG	Ikon 12
CLIENT FIELD REPRESENTATIVE	Kyle Hibbert	COUNTY	ADAMS
DISTRICT	Cheyenne, WY	STATE / PROVINCE	CO
SERVICE	Cementing		

WELL GEOMETRY

TYPE	OD (in)	ID (in)	WEIGHT (lb/ft)	MD (ft)	TVD (ft)	EXCESS (%)	GRADE	THREAD
Open Hole		13.50		193.00	193.00	100.00		
Casing	9.63	8.92	36.00	1788.00	1787.00		J-55	LTC

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Lost Circulation Prior to Cement Job	No
Circulation Prior to Job	Yes	Mud Density In (ppg)	8.40
Circulation Time (min)	30.00	Mud Density Out (ppg)	8.40
Circulation Rate (bpm)	10.00	Flare Prior to / during the Cement Job	No
Circulation Volume (bbls)	300.00	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	45.00	Slurry Cement Temperature (°F)	50.00
Mix Water Temperature (°F)	50.00		

FLUID DETAILS

FLUID TYPE	FLUID NAME	DENSITY (ppg)	YIELD (Cu Ft/sk)	H ₂ O REQ (gals/sk)	VOL (sk)	VOL (Cu Ft)	VOL (bbls)
Spacer / Pre Flush / Flush	Water	8.3300					20.0000
Tail Slurry	BJCem S100.3.XC	14.5000	1.3902	6.81	141	312.0000	35.0000
Displacement Final	Water	8.3300				0.0000	19.9000

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 Services	Amt of Cement Returned / Reversed	10.00
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
Did Float Hold?	No	Pressure Left on Casing (psi)	0.00
Bump Plug	No	Amt Bled Back After Job	0.00
Bump Plug Pressure (psi)	0.00	Total Volume Pumped (bbls)	35.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	Yes
Cement Returns During Job	Yes	Lost Circulation During Cement Job	No

Client Name: Great Western Operating Company LLC

Well: SCHAEFER LD #13-032HN

Well API: 05-001-10255

Start Date: 12/11/2018

End Date: 12/11/2018

Field Ticket #:



BJ Cementing Event Log

Surface - Cheyenne, WY - Victor Corona-Marta

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	12/11/2018 14:00	Depart for Location					BJ crew left yard to location
2	12/11/2018 16:00	Arrive on Location					BJ crew arrived at location
3	12/11/2018 16:05	Rig					Rig crew was drilling
4	12/11/2018 17:15	STEACS Briefing					Steacs briefing for rig up
5	12/11/2018 17:20	Rig Up					Rig up to top out well
6	12/11/2018 17:45	STEACS Briefing					Safety meeting over job procedure
7	12/11/2018 17:51	Pumping Cement	14.5000	3.00	55.00	100.00	Pumped 55bbls of cement at 14.5lbs(224sacks/yield-1.3902/gpsk-6.81)
8	12/11/2018 18:00	Cement Back-to-Surface	14.5000	3.00	35.00	100.00	Cement to Surface/ Only pumped 35bbls of cement. Had 10.0 bbls to surface.
9	12/11/2018 18:05	Rig					Rig pulling drill pipe
10	12/11/2018 18:15	Wash Pumps and Lines					Wash pump and lines into cellar
11	12/11/2018 18:30	STEACS Briefing					Steacs briefing for rig down
12	12/11/2018 18:35	Rig Down					Rig down from rig floor to pump
13	12/11/2018 18:50	Leave Location					Leave location to yard



JobMaster Program Version 4.02C1

Job Number:

Customer: Great Western

Well Name: Schaefer LD 13-032HN

