



# HighPoint Operating Corporation

RSU Anschutz Fed 4-61-05-0909CS

API # 05-123-50082

## Production

September 23, 2019

Quote #: QUO-36843-K3K5Q1

Execution #: EXC-21309-C4G9G502



# HighPoint Operating Corporation

Attention: Mr. Matthew Schwartz | (303) 312-8142 | [mschwartz@hpres.com](mailto:mschwartz@hpres.com)

HighPoint Operating Corporation | 1099 18th St. | Denver, CO. 80202

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Dear Mr. Matthew Schwartz,

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) 365-9038 | [jason.creel@bjservices.com](mailto:jason.creel@bjservices.com)

Field Office 1716 East Allison Rd., Cheyenne WY, 82007  
Phone: (307) 459-6487

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

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# BJ Cementing Treatment Report

SERVICE SUPERVISOR	Eric Dewit	RIG	Cade 23
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	4.00	4.50	11.60	17,006.00			P-110	LTC
Open Hole	6.13	0.00	0.00	17,010.00		10.00		
Previous Casing	6.37	7.00	23.00	6,277.00			J-55	

## HARDWARE

Bottom Plug Used?	No	Tool Depth (ft)	16,989.00
Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	5500.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Operated (psi)	4500.00
Top Plug Size	4.500	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	No Manifold
Landing Collar Depth (ft)	16,989	Top Connection Thread	LTC
Tool Type	Float Collar	Top Connection Size	4.5

## CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	YP Mud In	5
Circulation Prior to Job	No	YP Mud Out	5
Circulation Time (min)	60.00	Solids Present at End of Circulation	No
Lost Circulation Prior to Cement Job	No	10 sec SGS	2
Mud Density In (ppg)	9.40	10 min SGS	4
Mud Density Out (ppg)	9.40	Flare Prior to / during the Cement Job	No
PV Mud In	3	Gas Present	No
PV Mud Out	3		

## TEMPERATURE

Ambient Temperature (°F)	82.00	Slurry Cement Temperature (°F)	69.00
Mix Water Temperature (°F)	68.00		

Client: HighPoint Operating Corporation

Well: RSU ANSCHUTZ FED #4-61-05-0909CS

Well API: 05-123-50082

Start Date: 9/23/2019

End Date: 9/23/2019



## 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	Fresh Water	8.3300			3,370.00				40.0000
Tail Slurry	BJCem P50.6.01C	13.5000	1.5930	7.95	5,400.00	11,625.00	765	1219.0000	217.0000
Displacement 1	Retarded Water	8.3300			15,733.00			0.0000	20.0000
Displacement Final	Water + Chems	8.3300			0.00			0.0000	244.5000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Tail Slurry	BJCem P50.6.01C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem P50.6.01C	Flyash (Rockies)	50.0000	PCT
Tail Slurry	BJCem P50.6.01C	BONDING AGENT, BA-90	3.0000	LBS/SK
Tail Slurry	BJCem P50.6.01C	RETARDER, SR-20	0.2000	BWOB
Tail Slurry	BJCem P50.6.01C	IntegraCare EC-2	3.0000	BWOB
Tail Slurry	BJCem P50.6.01C	IntegraGuard GW-86	0.1000	BWOB
Tail Slurry	BJCem P50.6.01C	FLUID LOSS, FL-24	0.4000	BWOB
Tail Slurry	BJCem P50.6.01C	EXTENDER, BENTONITE	4.0000	BWOB
Tail Slurry	BJCem P50.6.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Displacement Final	Water + Chems	BIOCIDE, BIOC11139W	0.0210	GPB
Displacement Final	Water + Chems	CORROSION INHIBITORS, CI-27	0.2100	GPB
Displacement Final	Water + Chems	OXYGEN SCAVENGER, OS-30	0.1680	GPB

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	0.00
Calculated Displacement Vol (bbls)	246.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	246.00	Amt of Spacer to Surface	0.00
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)	1587.00	Total Volume Pumped (bbls)	510.00
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement Returns During Job	None	Lost Circulation During Cement Job	No

# BJ Cementing Event Log

Long String - Cheyenne, WY - Eric Dewit

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	09/23/2019 05:30	Callout					Customer call with an RTS of 11:30 on 9/23/19
2	09/23/2019 05:30	Other (See comment)					Crew get equipment and materials ready to travel to location
3	09/23/2019 09:30	Depart for Location					Crew departs for location
4	09/23/2019 11:30	Arrive on Location					Arrive on location
5	09/23/2019 11:30	STEACS Briefing					Pre-rig up safety meeting, and spot units
6	09/23/2019 11:45	Rig Up					Rig up
7	09/23/2019 13:00	Rig					Waiting on the rig to finish running casing, and circulate
8	09/23/2019 15:55	STEACS Briefing					Pre-job safety meeting with, BJ crew, rig crew, company man, and tool hand
9	09/23/2019 16:05	Rig Up					Rig floor
10	09/23/2019 16:14	Other (See comment)	8.3400	2.60	2.00	480.00	Load lines with 2 bbls of fresh water
11	09/23/2019 16:18	Pressure Test	8.3400			4800.00	
12	09/23/2019 16:22	Pump Spacer	8.3400	0.00	40.00	721.00	Pump 40 bbls of fresh water spacer
13	09/23/2019 16:35	Pumping Cement	13.5000	0.00	217.00	1270.00	Pump 765 sks of cement @13.5 ppg (Yield: 1.59 Mix water: 7.95)
14	09/23/2019 17:20	Wash Pumps and Lines					Wash pumps and lines, and drop the plug
15	09/23/2019 17:33	Pump Displacement	8.3400	7.10		154.00	Send plug, pump 20 bbls of retarded water
16	09/23/2019 17:36	Pump Displacement	8.3400	7.10	20.00	200.00	Pump fresh water + Chems displacement
17	09/23/2019 17:54	Pump Displacement	8.3400	5.60	150.00	2066.00	Drop rate
18	09/23/2019 18:10	Other (See comment)	8.3400	2.80	240.00	1185.00	Drop rate
19	09/23/2019 18:17	Land Plug	8.3400	2.80	246.00	1587.00	Land plug with 1029 psi, Bump up to 1587 psi
20	09/23/2019 18:22	Other (See comment)	8.3400	1.30	1.00	2921.00	Pressure up to sheer pins and pump the wet shoe
21	09/23/2019 18:23	Other (See comment)	8.3400	4.10	2.00	1407.00	Pump 2 bbl wet shoe
22	09/23/2019 18:24	Check Floats	8.3400				Check floats, floats held (.5 bbls back
23	09/23/2019 18:25	STEACS Briefing					Pre-rig down safety meeting
24	09/23/2019 18:35	Rig Down					Rig everything down
25	09/23/2019 19:15	Leave Location					Leave location

Client Name: HighPoint Operating Corporation

Well Name / API : RSU  
ANSCHUTZ FED #4-61-05-0909CS  
/ 05-123-50082

Well MD:6,277.00

Quote #: QUO-36843-K3K5Q1

Plan #: ORD-21309-C4G9G5

Execution #: EXC-21309-C4G9G502





JobMaster Program Version 4.02C1  
Job Number: 18345  
Customer: HighPoint  
Well Name: RSU Anschutz Fed 4-61-0909CS

