



# HighPoint Operating Corporation

RSU Anschutz Fed 4-61-5-2421C

API # 05-123-50079

## Production

October 1, 2019

Quote #: QUO-37107-X3H5Q5

Execution #: EXC-21465-K1X9Q002



# 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	Edgar Rodriguez	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
Previous Casing	6.37	7.00	23.00	6,335.00	6,014.00		J-55
Casing	4.00	4.50	11.60	19,205.78	6,063.00		P-110
Open Hole	6.13	0.00	0.00	19,210.00	6,063.00	10.00	

## HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	19,198.82
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	7500.00
Top Plug Size	5.500	Max Casing Pressure - Operated (psi)	3500.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	131.00	Job Pumped Through	No Manifold
Centralizers Type	Bow	Top Connection Thread	8RD
Landing Collar Depth (ft)	19,199	Top Connection Size	4.5

## CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud Out	3
Circulation Prior to Job	Yes	YP Mud In	2
Circulation Time (min)	120.00	YP Mud Out	2
Circulation Rate (bpm)	5.00	Solids Present at End of Circulation	No
Circulation Volume (bbls)	700.00	10 sec SGS	1
Lost Circulation Prior to Cement Job	No	10 min SGS	2
Mud Density In (ppg)	8.80	30 min SGS	0
Mud Density Out (ppg)	8.80	Flare Prior to / during the Cement Job	No
PV Mud In	3	Gas Present	No

Client: HighPoint Operating Corporation

Well: RSU ANSCHUTZ FED #4-61-5-2421C

Well API: 05-123-50079

Start Date: 10/1/2019

End Date: 10/1/2019

## TEMPERATURE

Ambient Temperature (°F)	60.00	Slurry Cement Temperature (°F)	65.00
Mix Water Temperature (°F)	65.00		

## 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			3,510.00				40.0000
Tail Slurry	BJCem P50.6.01C	13.5000	1.5930	7.95	4,406.00	13,658.00	885	1426.0000	253.9000
Displacement 1	Retarded Water	8.3300			17,906.00			0.0000	20.0000
Displacement Final	Water + Chems	8.3300			0.00			0.0000	277.5000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Tail Slurry	BJCem P50.6.01C	EXTENDER, BENTONITE	4.0000	BWOB
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	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem P50.6.01C	IntegraGuard GW-86	0.1000	BWOB
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	FLUID LOSS, FL-24	0.4000	BWOB
Tail Slurry	BJCem P50.6.01C	IntegraCare EC-2	3.0000	BWOB
Displacement Final	Water + Chems	CORROSION INHIBITORS, CI-27	0.2100	GPB
Displacement Final	Water + Chems	OXYGEN SCAVENGER, OS-30	0.1680	GPB
Displacement Final	Water + Chems	BIOCIDE, BIOC11139W	0.0210	GPB

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Method Used to Verify Returns	Visual
Calculated Displacement Vol (bbls)	297.00	Amt of Spacer to Surface	0.00
Actual Displacement Vol (bbls)	297.00	Pressure Left on Casing (psi)	0.00
Did Float Hold?	Yes	Amt Bled Back After Job	0.50
Bump Plug	Yes	Total Volume Pumped (bbls)	297.00
Bump Plug Pressure (psi)	1800.00	Top Out Cement Spotted	No
Were Returned Planned at Surface	Yes	Lost Circulation During Cement Job	No
Cement Returns During Job	None		

# BJ Cementing Event Log

Long String - Cheyenne, WY

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	09/30/2019 19:00	Callout					CALLED OUT TO BE ON LOCATION @2:30
2	09/30/2019 22:30	Depart for Location					LEAVE FOR LOCATION
3	10/01/2019 00:30	Arrive on Location					ARRIVE ON LOCATION
4	10/01/2019 00:35	Other (See comment)					GET NUMBERS FROM CUSTOMER REP / RIG ON BOTTOM WITH CASING / RIGGING DOWN CASERS / BREAK CIRCULATION
5	10/01/2019 00:40	STEACS Briefing					STEACS BRIEFING
6	10/01/2019 00:50	Spot Units					SPOT EQUIPMENT
7	10/01/2019 01:00	STEACS Briefing					STEACS BRIEFING
8	10/01/2019 01:10	Rig Up					RIG UP
9	10/01/2019 01:40	Rig					RIG CIRCULATING
10	10/01/2019 02:30	STEACS Briefing					JOB STEACS BRIEFING / RIG WILL CIRCULATE UNTIL 3:00
11	10/01/2019 03:00	Rig Up					SWITCH LINES TO PUMP
12	10/01/2019 03:03	Other (See comment)	8.3000	3.00	3.00	700.00	LOAD LINES
13	10/01/2019 03:05	Pressure Test	8.3000	1.00	1.00	4500.00	TEST LINES / GASKET ON RELEASE VALVE LEAKING / REPLACED
14	10/01/2019 03:10	Pressure Test	8.3000	1.00	1.00	4500.00	TEST LINES
15	10/01/2019 03:13	Pump Spacer	8.3000	5.50	40.00	1600.00	PUMPING FRESH WATER
16	10/01/2019 03:20	Pumping Cement	13.5000	6.50	254.00	750.00	PUMPING 885 SKS 50/50 CLASS G CEMENT / 13.5 LBS/GAL -- 1.59 CUFT/SK -- 7.95 GAL/SK / 4406' TOP OF CEMENT
17	10/01/2019 04:06	End Pumping					SHUTDOWN
18	10/01/2019 04:08	Wash Pumps and Lines					WASH PUMPS AND LINES
19	10/01/2019 04:13	Drop Top Plug					DROP TOP PLUG
20	10/01/2019 04:16	Pump Displacement	8.3000	6.50		1500.00	PUMPING DISPLACEMENT WITH RETARDER
21	10/01/2019 04:18	Pump Displacement	8.3000	6.50	20.00	1500.00	PUMPING DISPLACEMENT WITH BIOCIDES, OXYGEN SCAVENGER, CORROSION INHIBITORS
22	10/01/2019 04:27	Pump Displacement	8.3000	6.50	64.00	2300.00	DISPLACEMENT REACHED CEMENT
23	10/01/2019 04:33	Pump Displacement	8.3000	5.00	98.00	2700.00	SLOW RATE

Client: HighPoint Operating Corporation

Well Name / API: RSU ANSCHUTZ FED #4-61-5-2421C / 05-123-50079

Well MD: 19210



Quote #: QUO-37107-X3H5Q5

Plan #: ORD-21465-K1X9Q0

Execution #: EXC-21465-K1X9Q002

24	10/01/2019 05:09	Pump Displacement	8.3000	3.00	276.00	1900.00	SLOW RATE TO BUMP
25	10/01/2019 05:16	Land Plug	8.3000	3.00	297.00	1800.00	LANDED PLUG AT 1200 PSI AND TOOK UP TO 1800 PSI
26	10/01/2019 05:21	Pump Displacement	8.3000	3.00	2.00	3500.00	RUPTURE PLUG AT 3500 PSI AND STABILIZED AT 1690 PSI / PUMP 2 BBLS FOR WET SHOE
27	10/01/2019 05:23	Check Floats					FLOATS HOLDING / 1/2 BBL BACK
28	10/01/2019 05:25	End Pumping					END JOB / FULL CIRCULATION ENTIRE JOB
29	10/01/2019 05:25	STEACS Briefing					STEACS BRIEFING
30	10/01/2019 05:30	Rig Down					RIG DOWN
31	10/01/2019 05:50	Leave Location					LEAVE LOCATION



JobMaster Program Version 4.02C1  
Job Number:  
Customer: HighPoint Operating  
Well Name: RSU Anschutz Fed 4-61-5-2421C

