



# HighPoint Operating Corporation

RSU Anschutz Fed 4-61-5-2421C

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API # 05-123-50079

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Intermediate

September 25, 2019

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Quote #: QUO-36981-C2K1Z9

Execution #: EXC-21419-K6C7J602



# HighPoint Operating Corporation

Attention: Mr. Matthew Schwartz | (303) 312-8142 | 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

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	Lenny Baeza	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	8.92	9.63	36.00	840.00	840.00		
Open Hole	8.75	0.00	0.00			35.00	
Casing	6.37	7.00	23.00	6,336.00			J-55

## HARDWARE

Bottom Plug Used?	No	Landing Collar Depth (ft)	6,288
Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	4360.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Operated (psi)	3488.00
Top Plug Size	7.000	Job Pumped Through	No Manifold
Centralizers Used	Yes	Top Connection Thread	LTC
Centralizers Quantity	10.00	Top Connection Size	7"
Centralizers Type	Bow		

## CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud Out	7
Circulation Prior to Job	Yes	YP Mud In	5
Circulation Time (min)	120.00	YP Mud Out	5
Circulation Rate (bpm)	8.00	Solids Present at End of Circulation	No
Circulation Volume (bbls)	960.00	10 sec SGS	3
Lost Circulation Prior to Cement Job	No	10 min SGS	6
Mud Density In (ppg)	9.90	30 min SGS	0
Mud Density Out (ppg)	10.00	Flare Prior to / during the Cement Job	No
PV Mud In	7	Gas Present	No

## TEMPERATURE

Ambient Temperature (°F)	79.00	Mix Water Temperature (°F)	68.00
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## 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			0.00				40.0000
Lead Slurry	BJCem I100.3.01C	12.5000	2.0726	11.83	0.00	5,815.00	555	1150.0000	204.8000
Tail Slurry	BJCem I100.6.01C	15.8000	1.1560	4.98	5,815.00	500.00	95	110.0000	19.6000
Displacement Final	Water	8.3300			0.00			0.0000	246.8000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Lead Slurry	BJCem I100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem I100.3.01C	FLUID LOSS, FL-24	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	BONDING AGENT, BA-60	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	RETARDER, SR-20	0.3000	BWOB
Tail Slurry	BJCem I100.6.01C	CEMENT, CLASS G	100.0000	PCT
Tail Slurry	BJCem I100.6.01C	FLUID LOSS, FL-24	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	DISPERSANT, CD-31	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem I100.6.01C	RETARDER, R-6	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	BONDING AGENT, BA-60	0.2000	BWOB

## DISPLACEMENT AND END OF JOB SUMMARY

<b>Displaced By</b>	BJ	<b>Cement Returns During Job</b>	Full
<b>Calculated Displacement Vol (bbls)</b>	247.70	<b>Amt of Cement Returned / Reversed</b>	20.00
<b>Actual Displacement Vol (bbls)</b>	247.00	<b>Method Used to Verify Returns</b>	Visual
<b>Did Float Hold?</b>	Yes	<b>Amt of Spacer to Surface</b>	40.00
<b>Bump Plug</b>	No	<b>Amt Bled Back After Job</b>	2.00
<b>Bump Plug Pressure (psi)</b>	2000.00	<b>Top Out Cement Spotted</b>	No
<b>Were Returns Planned at Surface</b>	Yes	<b>Lost Circulation During Cement Job</b>	No

# BJ Cementing Event Log

Intermediate - Cheyenne, WY - Lenny Baeza

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	09/25/2019 13:00	Depart for Location					
2	09/25/2019 15:30	Arrive on Location					
3	09/25/2019 16:15	Rig Up					Rigging up to the Well Head.
4	09/25/2019 17:20	STEACS Briefing					Safety meeting with the Drilling Crew and Company man
5	09/25/2019 17:35	Pressure Test				4800.00	Pressure testing lines to 4,800 psi but Max Pressure is 3500 psi
6	09/25/2019 17:37	Pump Spacer		6.60	20.00	120.00	Pumping 40 bbls of H2O
7	09/25/2019 17:46	Pump Spacer		5.60	20.00	500.00	Pumping the last 20 bbls of H2O with Dye
8	09/25/2019 17:50	Pump Lead Cement	12.5000	5.60	204.00	520.00	Pumping Lead Cement @12.5
9	09/25/2019 18:00	Pump Lead Cement	12.5000	7.00	204.00	530.00	Pumping Lead Cement and Picking up the Rate
10	09/25/2019 18:17	Pump Lead Cement	12.5000	4.00	204.00	80.00	Pumping Lead Cement and Slowing down to swap to Tail Cement.
11	09/25/2019 18:19	Pump Tail Cement	15.8000	3.00	249.00	80.00	Swapped to Tail Cement @15.8
12	09/25/2019 18:26	Drop Top Plug					Shut down to Drop Top Plug
13	09/25/2019 18:31	Pump Displacement		5.50	20.00	80.00	20 bbls of Displacement
14	09/25/2019 18:36	Pump Displacement		7.00	50.00	95.00	50 bbls of Displacement
15	09/25/2019 18:45	Pump Displacement		7.00	90.00	480.00	90 bbls of Displacement and we caught pressure.
16	09/25/2019 18:49	Pump Displacement		7.00	110.00	730.00	110 bbls of Displacement
17	09/25/2019 18:51	Pump Displacement		7.00	130.00	900.00	130 bbls of Displacement
18	09/25/2019 18:54	Pump Displacement		7.00	150.00	1050.00	150 bbls of Displacement
19	09/25/2019 18:58	Pump Displacement		7.00	180.00	1300.00	180 bbls of Displacement water spacer to surface
20	09/25/2019 19:01	Pump Displacement		3.00	205.00	1300.00	180 bbls of Displacement Blue Dye to surface last 20 bbls of Spacer
21	09/25/2019 19:05	Pump Displacement		3.00	230.00	1300.00	227 bbls of Displacement Getting cement to surface 15bbls of cement to surface

Client: HighPoint Operating Corporation

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

Well MD: 6355



Quote #: QUO-36981-C2K1Z9

Plan #: ORD-21419-K6C7J6

Execution #: EXC-21419-K6C7J602

22	09/25/2019 19:11	Land Plug		3.00	247.00	1480.00	247 bbls gone and landed the Plug 1480 psi to 2000 psi
23	09/25/2019 19:13	Check Floats		0.00	247.00	2000.00	Release Psi and Floats are holding got 2 bbls back to the truck.
24	09/25/2019 19:17	Pressure Test		1.00	247.00	2000.00	Pressure testing Casing @2,000 psi for 32 mins
25	09/25/2019 19:47	Check Floats		0.00	247.00	0.00	Release Pressure and Checking floats again they are holding
26	09/25/2019 19:50	Rig Down		0.00	247.00	0.00	Crew is rigging down
27	09/25/2019 20:30	Leave Location		0.00	247.00	0.00	Crew is leaving location.



JobMaster Program Version 4.02C1  
Job Number:  
Customer: HighPoint  
Well Name: RSU ANSCHUTZ FED 4-61-5-2421C

