



# HighPoint Operating Corporation

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## Production Post Job Report

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RSU Anschutz Fed 4-62-02-4956C

S:3 T:4N R:62W Weld CO

Quote #:

| Execution #:

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# HighPoint Operating Corporation

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

Highpoint Operation 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) 256-0306 | jason.creel@bjsservices.com

Field Office 1716 East Allison Rd., Cheyenne WY, 82007  
Phone: (307) 638-5585

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

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# Cementing Treatment



<b>Start Date</b>	8/16/2018	<b>Field Ticket#</b>	FT-09907-W9F3J30201-1496812694
<b>End Date</b>	8/17/2018	<b>Well</b>	RSU ANSCHUTZ FED 4-62-02-4956C
<b>Client</b>	HighPoint Operating Corporation	<b>API#</b>	05-123-46840
<b>Service Sup.</b>	Travis Tolman	<b>County</b>	WELD
<b>District</b>	Cheyenne, WY	<b>State/Province</b>	CO
<b>Type of Job</b>	Long String	<b>Rig</b>	Savanna 803
<b>Execution ID</b>	EXC-09907-W9F3J302	<b>Project ID</b>	PRJ1009746

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess (%)	Grade	Thread
Previous Casing	6.37	7.00	23.00	6,477.00	6,133.00			
Open Hole	6.13			16,816.00	6,133.00	10.00		
Casing	4.00	4.50	11.60	16,816.00	6,133.00		P-110	LTC

**Shoe Length (ft):** 57.00

## HARDWARE

<b>Top Plug Used?</b>	Yes	<b>Landing Collar Depth (ft)</b>	16,759
<b>Top Plug Provided By</b>	Non BJ	<b>Max Casing Pressure - Operated (psi)</b>	5,000.00
<b>Top Plug Size</b>	4.500	<b>Pipe Movement</b>	None
<b>Centralizers Used</b>	Yes	<b>Job Pumped Through</b>	No Manifold
<b>Centralizers Quantity</b>	250.00	<b>Top Connection Thread</b>	8RND
<b>Centralizers Type</b>	Rigid	<b>Top Connection Size</b>	4.5"

## CIRCULATION PRIOR TO JOB

<b>Well Circulated By</b>	Rig	<b>Solids Present at End of Circulation</b>	No
<b>Circulation Prior to Job</b>	Yes	<b>Mud Density In (ppg)</b>	9.10
<b>Circulation Time (min)</b>	60.00	<b>Flare Prior to/during the Cement Job</b>	No
<b>Lost Circulation Prior to Cement Job</b>	No	<b>Gas Present</b>	No

## TEMPERATURE

<b>Ambient Temperature (°F)</b>	80.00	<b>Mix Water Temperature (°F)</b>	78.00
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# Cementing Treatment



## BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	11.0000			3,985.00				20.0000
Tail Slurry	BJCem L50.6.01C	13.5000	1.5929	7.95	5,000.00	11816	780	1,238.0000	220.5000
Displacement Final	Water + Biocide	8.3300			0.00			0.0000	257.0000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SAND, S-8, Silica Flour, 200 Mesh	179.4000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	GELLANT WATER, GW-86	0.8000	PPB
Tail Slurry	BJCem L50.6.01C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem L50.6.01C	BONDING AGENT, BA-90	3.0000	LBS/SK
Tail Slurry	BJCem L50.6.01C	FLUID LOSS, FL-24	0.4000	BWOB
Tail Slurry	BJCem L50.6.01C	EXTENDER, BENTONITE	4.0000	BWOB
Tail Slurry	BJCem L50.6.01C	RETARDER, SR-20	0.2000	BWOB
Tail Slurry	BJCem L50.6.01C	BONDING AGENT, EC-2	3.0000	BWOB
Tail Slurry	BJCem L50.6.01C	Flyash (Rockies)	50.0000	PCT
Tail Slurry	BJCem L50.6.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem L50.6.01C	GELLANT WATER, GW-86	0.1000	BWOB
Displacement Final	Water + Biocide	BIOCIDE, BIOC11139W	0.0100	GPB

## TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)
IntegraGuard EZ Spacer	3.00	20.00
BJCem L50.6.01C	6.00	220.00
Retarded Water	6.00	20.00
Water + Biocide	7.00	237.00

## DISPLACEMENT AND END OF JOB SUMMARY

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<b>Displaced By</b>	BJ Services	<b>Cement returns During Job</b>	Full
<b>Calculated Displacement Volume (bbls)</b>	257.00	<b>Method Used to Verify Returns</b>	Visual
<b>Actual Displacement Volume (bbls)</b>	257.00	<b>Amount Bled Back After Job</b>	0.50
<b>Did Float Hold?</b>	Yes	<b>Total Volume Pumped (bbls)</b>	497
<b>Bump Plug</b>	Yes	<b>Top Out Cement Spotted</b>	No
<b>Bump Plug Pressure (psi)</b>	2,100.00	<b>Lost Circulation During Cement Job</b>	No
<b>Were Returns Planned at Surface</b>	Yes		

# EVENT LOG



**Customer Name:** HighPoint Operating Corporation

**Well Name:** RSU ANSCHUTZ FED 4-62-02-4956C

**Job Type:** Long String

**Quote ID:** QUO-17189-G1H6S8

**Plan ID:** ORD-09907-W9F3J3

**Execution ID:** EXC-09907-W9F3J302

**District:** Cheyenne, WY

**BJ Supervisor:** Travis Tolman

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	08/16/2018 07:30	Callout					Crew called out for on location of 1230, crew pre-trip equipment
2	08/16/2018 09:05	Leave Location					Crew ready to head to location
3	08/16/2018 12:05	Arrive on Location					Arrived on location, running casing, met with company man to get numbers and discuss job and safety issues, met with tool hand to confirm numbers and discuss job
4	08/16/2018 12:10	Spot Units					Spot equipment
5	08/16/2018 12:15	Safety Meeting					Held safety meeting with crew to discuss job, tasks, rig up and safety issues
6	08/16/2018 12:30	Rig Up					Rigged up from equipment to rig floor
7	08/16/2018 23:45	Safety Meeting					Held safety meeting with company man, rig hands and crew to discuss job and safety issues
8	08/17/2018 00:38	Start Pumping	8.3000	3.00	3.00	600.00	Pump fresh water to load pump and lines
9	08/17/2018 00:53	Pressure Test	8.3000			5,932.00	Pressure test pump and lines
10	08/17/2018 00:57	Start Pumping	8.3000	2.80	7.00	447.00	Pump fresh water
11	08/17/2018 01:00	Pump Spacer	11.0000	3.00	20.00	400.00	Pump 20bbls of 11# spacer, top of spacer at 3052'
12	08/17/2018 01:06	Pump Lead Cement	13.5000	6.00	220.00	550.00	Pump 780sks/220.8bbls of cement at 13.5#-1.59Y-7.95gps, top of cement at 4071'
13	08/17/2018 01:48	End Pumping					Shut down
14	08/17/2018 01:50	Clean Pumps and Lines	8.3000				Clean pump and lines to pit
15	08/17/2018 01:56	Drop Top Plug					Drop top plug with tool hand
16	08/17/2018 02:02	Pump Displacement	8.3000	7.00	230.00	2,700.00	Pump displacement, 1st 20bbls with R-8, Biocide in the rest of displacement
17	08/17/2018 02:37	Other (See comment)	8.3000	3.00	27.00	1,500.00	Slowed rate to land plug

# EVENT LOG

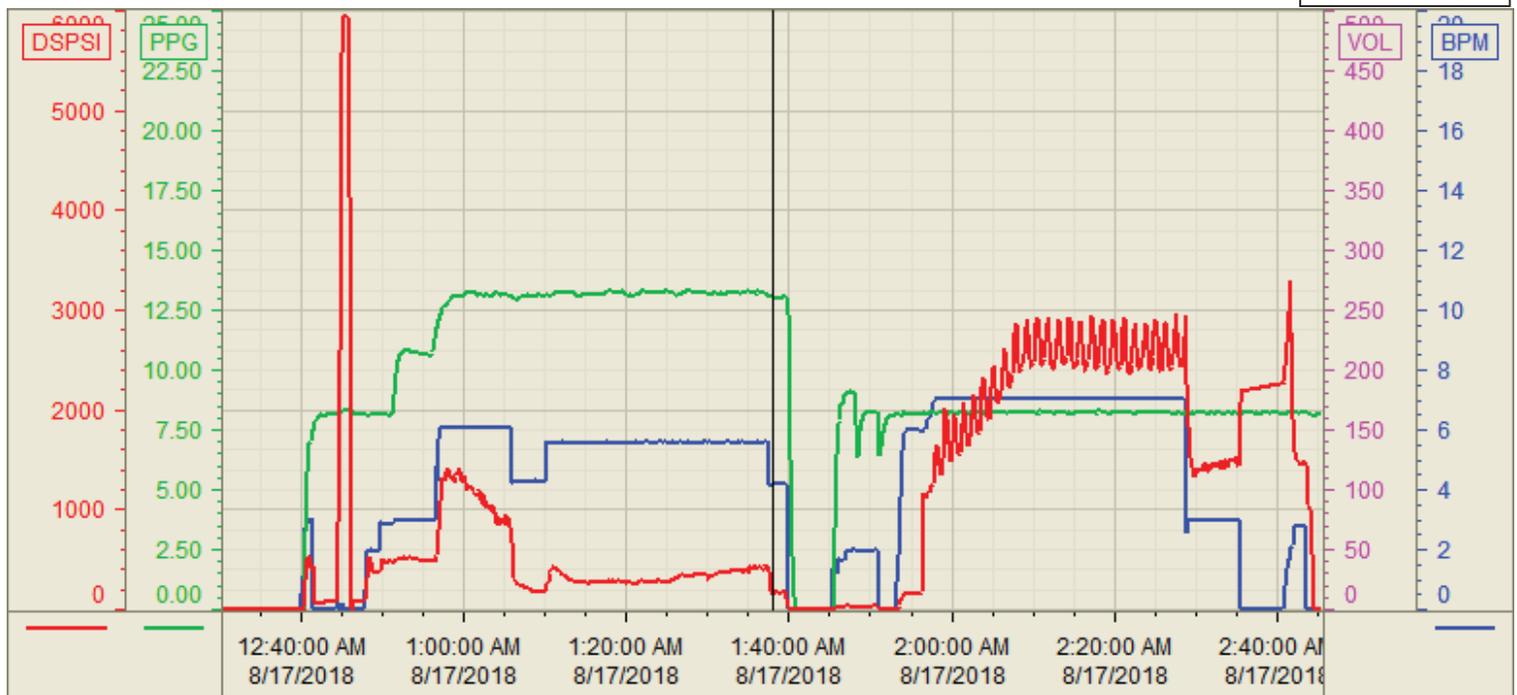


18	08/17/2018 02:44	Land Plug	8.3000			2,100.00	Landed plug, hold for 5mins
19	08/17/2018 02:49	Start Pumping	8.3000			3,600.00	Pressure up on tool to open
20	08/17/2018 02:50	Other (See comment)	8.3000	3.00	5.00	1,900.00	Pump 5bbl wet shoe
21	08/17/2018 02:52	End Pumping					Shut down, hold for 1min
22	08/17/2018 02:53	Check Floats	8.3000				Check float, held good, 0.5bbl back
23	08/17/2018 02:55	Safety Meeting					Held safety meeting with crew to discuss rig down and safety issues
24	08/17/2018 03:10	Rig Down					Rigged down from rig floor to equipment
25	08/17/2018 04:00	Leave Location					Crew ready to leave location

Customer: HighPoint Operating  
 Well Number: 4-62-02-4956C  
 Lease Info: RSU Anschutz Fed



Print Date/Time  
 8/17/2018 3:11:32 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press(PSI)	163.7 i.	8/17/2018 1:38:00 AM i.	Cementer\DS_DISCHARGE_PRESS_DIAL
2	DH - Density (PPG)	13.04 i.	8/17/2018 1:38:00 AM i.	Cementer\DENSITY2_ACTUAL_RATE
3	Combined rate (BPM)	4.18	8/17/2018 1:37:58 AM	Cementer\Flow_Combined
4				
5				

Source: Control1 3:11:26 AM