



# HighPoint Operating Corp.

## Production Post-Job Report

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RSU Anschutz Fed 4-62-02-4841CS

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

Quote #:

I Execution #:

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# HighPoint Operating Corporation

Attn: Mr. Matthew Schwartz | (303) 293-9100 | [mschwartz@hpres.com](mailto:mschwartz@hpres.com)

HighPoint Resources | 1099 18th ST, Suite 2300 | Denver, CO 80202

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Dear Mr. 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,

Karl Griesser

Field Engineer I | (713) 829-7498 | [karl.griesser@bjservices.com](mailto:karl.griesser@bjservices.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>	8/4/2018	<b>Execution ID</b>	EXC-09348-D0J3S402
<b>End Date</b>	8/5/2018	<b>Project ID</b>	PRJ1009186
<b>Client</b>	HighPoint Operating Corporation	<b>Well</b>	RSU ANSCHUTZ FED 4-62-02-4841CS
<b>Client Field Rep.</b>	KC Beckstead	<b>API#</b>	05-123-46857
<b>Service Sup.</b>	Roger Acuna	<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

## 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	6,654.00	6,107.00			
Open Hole	6.13	0.00	0.00	16,892.00	6,107.00	10.00		
Casing	4.00	4.50	11.60	16,887.00	6,107.00		P-110	LTC

**Shoe Length (ft):** 48.00

## HARDWARE

<b>Bottom Plug Used?</b>	No	<b>Tool Type</b>	Float Collar
<b>Top Plug Used?</b>	Yes	<b>Tool Depth (ft)</b>	16,839.00
<b>Top Plug Provided By</b>	Non BJ	<b>Max Casing Pressure - Rated (psi)</b>	10,680.00
<b>Top Plug Size</b>	4.500	<b>Max Casing Pressure - Operated (psi)</b>	3,500.00
<b>Centralizers Used</b>	Yes	<b>Pipe Movement</b>	None
<b>Centralizers Quantity</b>	250.00	<b>Job Pumped Through</b>	Manifold
<b>Centralizers Type</b>	Bow	<b>Top Connection Thread</b>	LTC
<b>Landing Collar Depth (ft)</b>	16,893	<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>10 sec SGS</b>	6.00
<b>Circulation Time (min)</b>	150.00	<b>10 min SGS</b>	5.00
<b>Circulation Rate (bpm)</b>	6.00	<b>Flare Prior to/during the Cement Job</b>	No
<b>Circulation Volume (bbls)</b>	900.00	<b>Gas Present</b>	No
<b>Lost Circulation Prior to Cement Job</b>	No	<b>Gas Units</b>	0

# Cementing Treatment



PV Mud In	6	Mud Density In (ppg)	9.20
PV Mud Out	6	Mud Density Out (ppg)	9.20
YP Mud In	2		
YP Mud Out	2		

## TEMPERATURE

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

## 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	11935	790	1,252.0000	222.9000
Displacement Final	Water + Biocide	8.3300			0.00			0.0000	237.5000

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

# Cementing Treatment



## TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
IntegraGuard EZ Spacer	5.00	20.00	1,000.00
BJCem L50.6.01C	6.00	224.00	1,500.00
Retarded Water	5.00	20.00	2,000.00
Water + Biocide	8.00	237.50	3,000.00

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	0.00
Calculated Displacement Volume (bbls)	257.50	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	257.50	Amount of Spacer to Surface	0.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	1.00
Bump Plug Pressure (psi)	2,000.00	Total Volume Pumped (bbls)	511.50
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement returns During Job	None	Lost Circulation During Cement Job	No

# EVENT LOG



**Customer Name:** HighPoint Operating Corporation  
**Well Name:** RSU ANSCHUTZ FED 4-62-02-4841CS  
**Job Type:** Long String  
**Quote ID:** QUO-16386-W3H1B0  
**Plan** ORD-09348-D0J3S4  
**Execution ID:** EXC-09348-D0J3S402

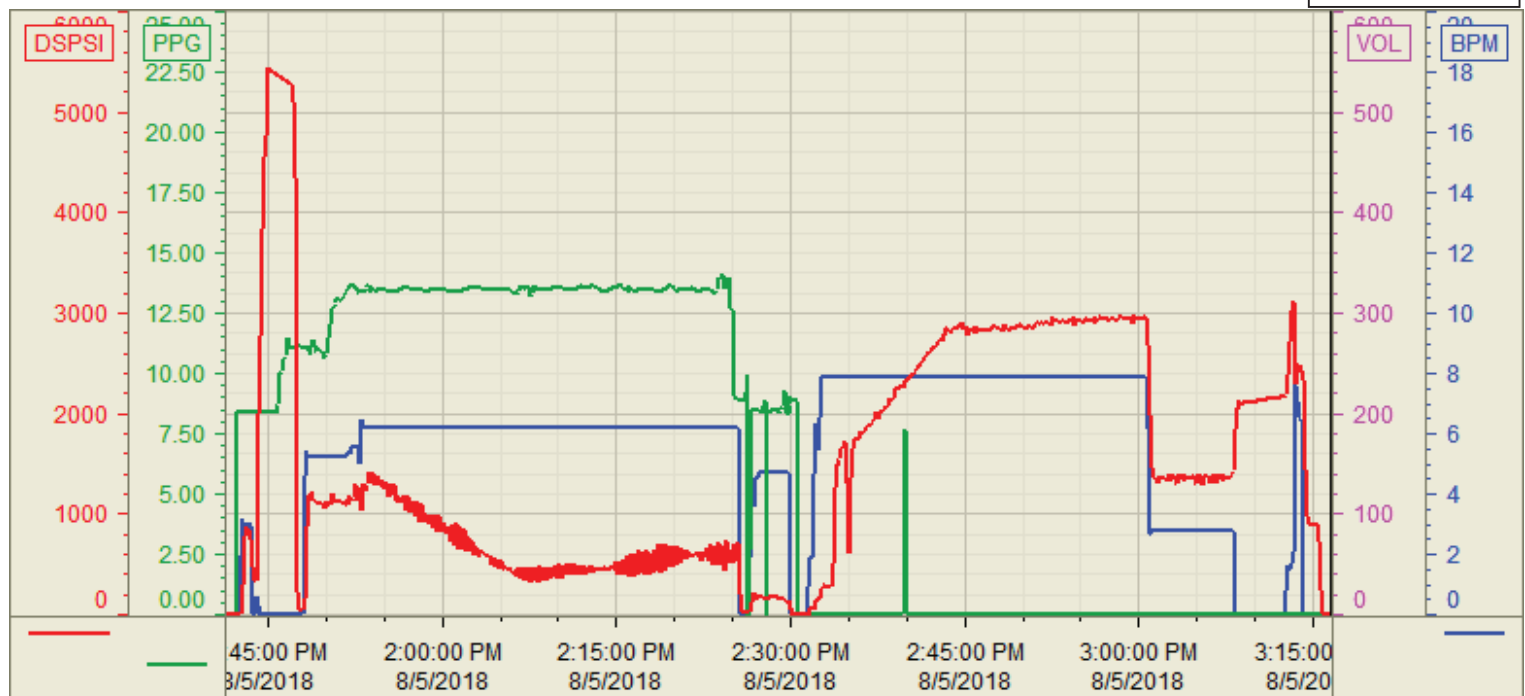
Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
1	08/04/2018 18:00	Callout					CALLED OUT RTS 23:00
2	08/04/2018 19:00	Safety Meeting					JOURNEY MANAGEMENT
3	08/04/2018 19:15	Leave Location					DEPART CHEYENNE WY
4	08/04/2018 22:15	Arrive on Location					ARRIVE TO LOCATION
5	08/04/2018 22:15	Safety Meeting					STEACS RIG IN
6	08/04/2018 22:30	Rig Up					RIG IN IRON AND HOSES
7	08/04/2018 22:30	Customer					WAITING ON RIG TO FINISH
8	08/05/2018 13:15	Safety Meeting					PRE JOB SAFETY MEETING
9	08/05/2018 13:45	Start Pumping	8.3300	3.00	5.00	600.00	FILL LINES FRESH WATER
10	08/05/2018 13:46	Pressure Test				5,000.00	TEST LINES 5000PSI
11	08/05/2018 13:50	Pump Spacer	11.0000	5.00	20.00	1,000.00	PUMP 20BBLS EZ SPACER @
12	08/05/2018 13:53	Pump Lead Cement	13.5000	6.00	224.00	1,500.00	PUMP 224BBLS PRIMARY
13	08/05/2018 14:30	End Pumping					SHUTDOWN
14	08/05/2018 14:31	Clean Pumps and Lines					WASH PUMPS AND LINES TO THE PIT
15	08/05/2018 14:33	Drop Top Plug					DROP TOP PLUG
16	08/05/2018 14:33	Pump Displacement	8.3300	8.00	230.00	3,000.00	PUMP FRESH WATER
17	08/05/2018 15:03	Pump Displacement	8.3300	3.00	27.50	1,500.00	SLOW RATE TO LAND PLUG
18	08/05/2018 15:10	Land Plug				2,000.00	LAND PLUG 500PSI OVER
19	08/05/2018 15:15	Pump Displacement	8.3300	6.50	5.00	2,500.00	SHIFT WET SHOE SLEEVE @
20	08/05/2018 15:16	Check Floats					CHECK FLOATS, FLOATS
21	08/05/2018 15:17	End Pumping					END JOB
22	08/05/2018 15:30	Safety Meeting					STEACS RIG OUT
23	08/05/2018 15:45	Rig Down					RIG OUT IRON AND HOSES
24	08/05/2018 16:15	Safety Meeting					JOURNEY MANAGEMENT
25	08/05/2018 16:30	Leave Location					DEPART LOCATION

Customer: HighPoint  
Well Number: 4-62-02-4841CS  
Lease Info: RSU Anschutz Fed



Print Date/Time

8/5/2018 3:39:24 PM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press(PSI)	6.1	8/5/2018 3:16:30 PM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)	0.01	8/5/2018 3:16:32 PM	Cementer\DENSITY_ACTUAL_RATE
3	Combined rate (BPM)	0.00	8/5/2018 3:16:32 PM	Cementer\Flow_Combined
4				
5				

Source: Control1 3:39:19 PM