



# HighPoint Operating Corporation

## Intermediate Post-Job Report

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RSU ANSCHUTZ FED 4-62-11-1609CN

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

Quote #:

19131

I Execution #:

10965

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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>	9/11/2018	<b>Execution ID</b>	EXC-10965-S9S0Z102
<b>End Date</b>	9/11/2018	<b>Project ID</b>	PRJ1010667
<b>Client</b>	HighPoint Operating Corporation	<b>Well</b>	RSU ANSCHUTZ FED 4-62-11-1609CN
<b>Client Field Rep.</b>	Chris Beckstead	<b>API#</b>	05-123-46847
<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>	Intermediate		

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Previous Casing	8.92	9.63	36.00	832.00	832.00			
Open Hole	8.75	0.00	0.00	6,560.00	6,123.00	25.00		
Casing	6.37	7.00	23.00	6,542.00	6,123.00		J-55	LTC

**Shoe Length (ft):** 44.00

## HARDWARE

<b>Bottom Plug Used?</b>	No	<b>Tool Type</b>	Float Collar
<b>Top Plug Used?</b>	Yes	<b>Tool Depth (ft)</b>	6,498.00
<b>Top Plug Provided By</b>	Non BJ	<b>Max Casing Pressure - Rated (psi)</b>	3,250.00
<b>Top Plug Size</b>	7.000	<b>Max Casing Pressure - Operated (psi)</b>	2,000.00
<b>Centralizers Used</b>	Yes	<b>Pipe Movement</b>	None
<b>Centralizers Quantity</b>	13.00	<b>Job Pumped Through</b>	Manifold
<b>Centralizers Type</b>	Bow	<b>Top Connection Thread</b>	LTC
<b>Landing Collar Depth (ft)</b>	6,498	<b>Top Connection Size</b>	7

## 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>	1.00
<b>Circulation Time (min)</b>	60.00	<b>10 min SGS</b>	3.00
<b>Circulation Rate (bpm)</b>	7.00	<b>Flare Prior to/during the Cement Job</b>	No
<b>Circulation Volume (bbls)</b>	420.00	<b>Gas Present</b>	Yes
<b>Lost Circulation Prior to Cement Job</b>	No	<b>Gas Units</b>	1480
<b>Mud Density In (ppg)</b>	10.20	<b>Mud Density Out (ppg)</b>	10.20
<b>PV Mud In</b>	7	<b>YP Mud In</b>	3
<b>PV Mud Out</b>	7	<b>YP Mud Out</b>	3

# Cementing Treatment



## TEMPERATURE

Ambient Temperature (°F)	65.00	Slurry Cement Temperature (°F)	60.00
Mix Water Temperature (°F)	60.00	Flow Line Temperature (°F)	120.00

## 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			0.00				20.0000
Lead Slurry	BJCem I100.3.01C	12.5000	2.0735	11.83	600.00	4400	400	822.0000	146.4000
Tail Slurry	BJCem I100.6.01C	15.8000	1.1550	4.98	5,000.00	1570	260	305.0000	54.2000
Displacement Final	Water	8.3300			0.00			0.0000	255.0000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SAND, S-8, Silica Flour, 200 Mesh	180.4300	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SPACER SURFACTANT, SS-247	0.5000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	RETARDER, SR-20	1.0200	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	GELLANT WATER, GW-86	0.8000	PPB
Lead Slurry	BJCem I100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	RETARDER, SR-20	0.4000	BWOB
Lead Slurry	BJCem I100.3.01C	BONDING AGENT, BA-60	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	FLUID LOSS, FL-24	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem I100.6.01C	FLUID LOSS, FL-24	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem I100.6.01C	BONDING AGENT, BA-60	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	RETARDER, R-6	0.1000	BWOB
Tail Slurry	BJCem I100.6.01C	DISPERSANT, CD-31	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	CEMENT, CLASS G	100.0000	PCT

# Cementing Treatment



## TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
IntegraGuard EZ Spacer	6.00	20.00	400.00
BJCem I100.3.01C	6.00	146.40	400.00
BJCem I100.6.01C	6.00	54.20	200.00
Water	8.00	255.00	1,500.00

	Min	Max	Avg
Pressure (psi)	200.00	1,500.00	625.00
Rate (bpm)	6.00	8.00	6.50

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	0.00
Calculated Displacement Volume (bbls)	255.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	255.00	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	2.00
Bump Plug Pressure (psi)	2,000.00	Total Volume Pumped (bbls)	505.00
Were Returns Planned at Surface	Yes	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 4-62-11-1609CN

**Job Type:** Intermediate

**Quote ID:** QUO-19131-N9Z2J0

**Plan ID:** ORD-10965-S9S0Z1

**Execution ID:** EXC-10965-S9S0Z102

**District:** Cheyenne, WY

**BJ Supervisor:** Roger Acuna

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
1	09/11/2018 12:00	Callout					CALLED OUT RTS 18:00
2	09/11/2018 15:15	Safety Meeting					JOURNEY MANAGEMENT
3	09/11/2018 15:30	Leave Location					DEPART CHEYENNE WY CAMP
4	09/11/2018 17:45	Arrive on Location					ARRIVE TO LOCATION
5	09/11/2018 18:00	Circulate Well	10.2000	7.00	420.00	590.00	RIG CIRCULATING WELL
6	09/11/2018 18:45	Safety Meeting					STEACS RIG UP
7	09/11/2018 18:45	Rig Up					RIG UP IRON AND HOSES
8	09/11/2018 19:02	Safety Meeting					PRE JOB SAFETY MEETING
9	09/11/2018 19:03	Start Pumping	8.3300	3.00	3.00	120.00	FILL LINES FRESH WATER
10	09/11/2018 19:06	Pressure Test				3,000.00	TEST LINES
11	09/11/2018 19:08	Pump Spacer	8.3300	6.00	30.00	400.00	PUMP FRESH WATER FLUSH
12	09/11/2018 19:15	Pump Spacer	11.0000	6.00	20.00	400.00	PUMP INTEGRAGUARD EZ SPACER @ 11PPG
13	09/11/2018 19:18	Pump Lead Cement	12.5000	6.00	146.00	400.00	PUMP BJCEMI100.3.01C @ 12.5PPG
14	09/11/2018 19:42	Pump Tail Cement	15.8000	6.00	54.00	200.00	PUMP BJCEM I100.6.01C @ 15.8PPG
15	09/11/2018 19:54	End Pumping					SHUTDOWN
16	09/11/2018 19:55	Drop Top Plug					DROP TOP PLUG

# EVENT LOG



17	09/11/2018 19:55	Pump Displacement	8.3300	8.00	230.00	1,500.00	PUMP FRESH WATER DISPLACEMENT
18	09/11/2018 20:25	Pump Displacement	8.3300	4.00	25.00	1,500.00	PUMP FRESH WATER DISPLACEMENT
19	09/11/2018 20:31	Land Plug				2,000.00	LAND PLUG 500PSI OVER FINAL CIRCULATING PRESSURE
20	09/11/2018 20:35	Check Floats					CHECK FLOATS, FLOATS HELD GETTING 2BBLs BACK TO THE PUMP
21	09/11/2018 20:38	Pressure Test	8.3300			1,500.00	CASING TEST FOR 30MIN
22	09/11/2018 21:08	End Pumping					END JOB
23	09/11/2018 21:08	Safety Meeting					STEACS RIG DOWN
24	09/11/2018 21:15	Rig Down					RIG DOWN IRON AND HOSES
25	09/11/2018 22:00	Safety Meeting					JOURNEY MANAGEMENT
26	09/11/2018 22:15	Leave Location					DEPART LOCATION

Customer: HIGHPOINT  
 Well Number: 4-62-11-1609CN  
 Lease Info: RSU ANSCHUTZ FED

