



# HighPoint Operating Corporation

## Intermediate Post-Job Report

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RSU ANSCHUTZ FED 4-62-02-4841CS

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

Quote #:

16202

I Execution #:

09232

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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>	7/28/2018	<b>Project ID</b>	PRJ1009075
<b>End Date</b>	7/28/2018	<b>Field Ticket#</b>	FT-09232-S1R6L60202-1252271100
<b>Client</b>	HighPoint Operating Corporation	<b>Well</b>	RSU ANSCHUTZ FED 4-62-02-4841CS
<b>Service Sup.</b>	Travis Tolman	<b>API#</b>	05-123-46857
<b>District</b>	Cheyenne, WY	<b>County</b>	WELD
<b>Type of Job</b>	Intermediate	<b>State/Province</b>	CO
<b>Execution ID</b>	EXC-09232-S1R6L602	<b>Rig</b>	Savanna 803

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade
Previous Casing	8.92	9.63	36.00	843.00	843.00		
Open Hole	8.75	0.00	0.00	6,670.00	6,130.00	25.00	
Casing	6.37	7.00	23.00	6,654.00	6,130.00		J-55

**Shoe Length (ft):** 42.00

## HARDWARE

<b>Bottom Plug Used?</b>	No	<b>Landing Collar Depth (ft)</b>	6,609
<b>Top Plug Used?</b>	Yes	<b>Max Casing Pressure - Rated (psi)</b>	4,360.00
<b>Top Plug Provided By</b>	Non BJ	<b>Max Casing Pressure - Operated (psi)</b>	3,000.00
<b>Top Plug Size</b>	7.000	<b>Pipe Movement</b>	None
<b>Centralizers Used</b>	Yes	<b>Job Pumped Through</b>	Manifold
<b>Centralizers Quantity</b>	15.00	<b>Top Connection Thread</b>	8RND
<b>Centralizers Type</b>	Bow	<b>Top Connection Size</b>	7

## CIRCULATION PRIOR TO JOB

<b>Well Circulated By</b>	Rig	<b>YP Mud In</b>	4
<b>Circulation Prior to Job</b>	Yes	<b>Solids Present at End of Circulation</b>	No
<b>Circulation Time (min)</b>	30.00	<b>10 sec SGS</b>	3.00
<b>Circulation Rate (bpm)</b>	6.00	<b>10 min SGS</b>	5.00
<b>Lost Circulation Prior to Cement Job</b>	No	<b>Flare Prior to/during the Cement Job</b>	No
<b>Mud Density In (ppg)</b>	10.00	<b>Gas Present</b>	No
<b>PV Mud In</b>	7		

# Cementing Treatment



## TEMPERATURE

Ambient Temperature (°F)	68.00	Flow Line Temperature (°F)	120.00
Mix Water Temperature (°F)	71.00		

## 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	1.00	4400	400	822.0000	147.4000
Tail Slurry	BJCem I100.6.01C	15.8000	1.1550	4.98	4,615.00	1632	275	316.0000	56.3000
Displacement Final	Water	8.3300			0.00			0.0000	260.1000

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	GELLANT WATER, GW-86	0.8000	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
Lead Slurry	BJCem I100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem I100.3.01C	FOAM PREVENTER, FP-25	0.3000	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	RETARDER, SR-20	0.4000	BWOB
Tail Slurry	BJCem I100.6.01C	BONDING AGENT, BA-60	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem I100.6.01C	FLUID LOSS, FL-24	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	CEMENT, CLASS G	100.0000	PCT
Tail Slurry	BJCem I100.6.01C	RETARDER, R-6	0.1000	BWOB
Tail Slurry	BJCem I100.6.01C	DISPERSANT, CD-31	0.2000	BWOB

# Cementing Treatment



## TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)
7/28/2018 11:50:00 AM	IntegraGuard EZ Spacer	4.00	20.00
7/28/2018 11:58:00 AM	BJCem I100.3.01C	5.00	147.00
7/28/2018 12:26:00 PM	BJCem I100.6.01C	5.00	56.00
7/28/2018 12:44:00 PM	Water	7.00	260.00

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	10.00
Calculated Displacement Volume (bbls)	260.10	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	260.00	Amount of Spacer to Surface	20.00
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)	1,200.00	Total Volume Pumped (bbls)	503.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

# EVENT LOG



**Customer Name:** HighPoint Operating Corporation

**Well Name:** RSU ANSCHUTZ FED 4-62-02-4841CS

**Job Type:** Intermediate

**Quote ID:** QUO-16202-W5F9P6

**Plan ID:** ORD-09232-S1R6L6

**District:** Cheyenne, WY

**Execution ID:** EXC-09232-S1R6L602

**BJ Supervisor:** Travis Tolman

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
1	07/27/2018 22:30	Callout					Crew called out for On Location time of 0330, crew getting equipment ready
2	07/28/2018 01:00	Leave Location					Crew left heading to location
3	07/28/2018 02:20	Arrive on Location					Arrived on location, rig running casing, having issues, met with company man to get numbers discuss job and safety issues
4	07/28/2018 02:30	Spot Units					Spotted equipment
5	07/28/2018 02:35	Safety Meeting					Held safety meeting with crew to discuss rig up, tasks and safety issues
6	07/28/2018 02:45	Rig Up					Rigged up from equipment to floor
7	07/28/2018 11:25	Safety Meeting					Held safety meeting with company man, rig hands and crew to discuss job and safety issues
8	07/28/2018 11:36	Start Pumping	8.3000	2.00	3.00	50.00	Filled pump and lines with fresh water
9	07/28/2018 11:39	Pressure Test	8.3000			4,200.00	Pressure test pump and lines
10	07/28/2018 11:41	Start Pumping	8.3000	4.00	17.00	182.00	Pumped fresh water, total of 20bbls
11	07/28/2018 11:50	Pump Spacer	11.0000	4.00	20.00	200.00	Pump spacer at 11#-2.18Y-13.12gps
12	07/28/2018 11:58	Pump Lead Cement	12.5000	5.00	147.00	300.00	Pump 400sks/147.7bbls of lead cement at 12.5#-2.07Y-11.83gps, est. top of lead at surface
13	07/28/2018 12:26	Pump Tail Cement	15.8000	5.00	56.00	100.00	Pump 275sks/56.3bbls of tail cement at 15.8#-1.15Y-4.98gps, est. top of tail at 4615'
14	07/28/2018 12:41	End Pumping					Shut down, wash up tub
15	07/28/2018 12:43	Drop Top Plug					Drop top plug witnessed by company man and BJ rep
16	07/28/2018 12:44	Pump Displacement	8.3000	7.00	242.00	1,000.00	Pump fresh water displacement

# EVENT LOG

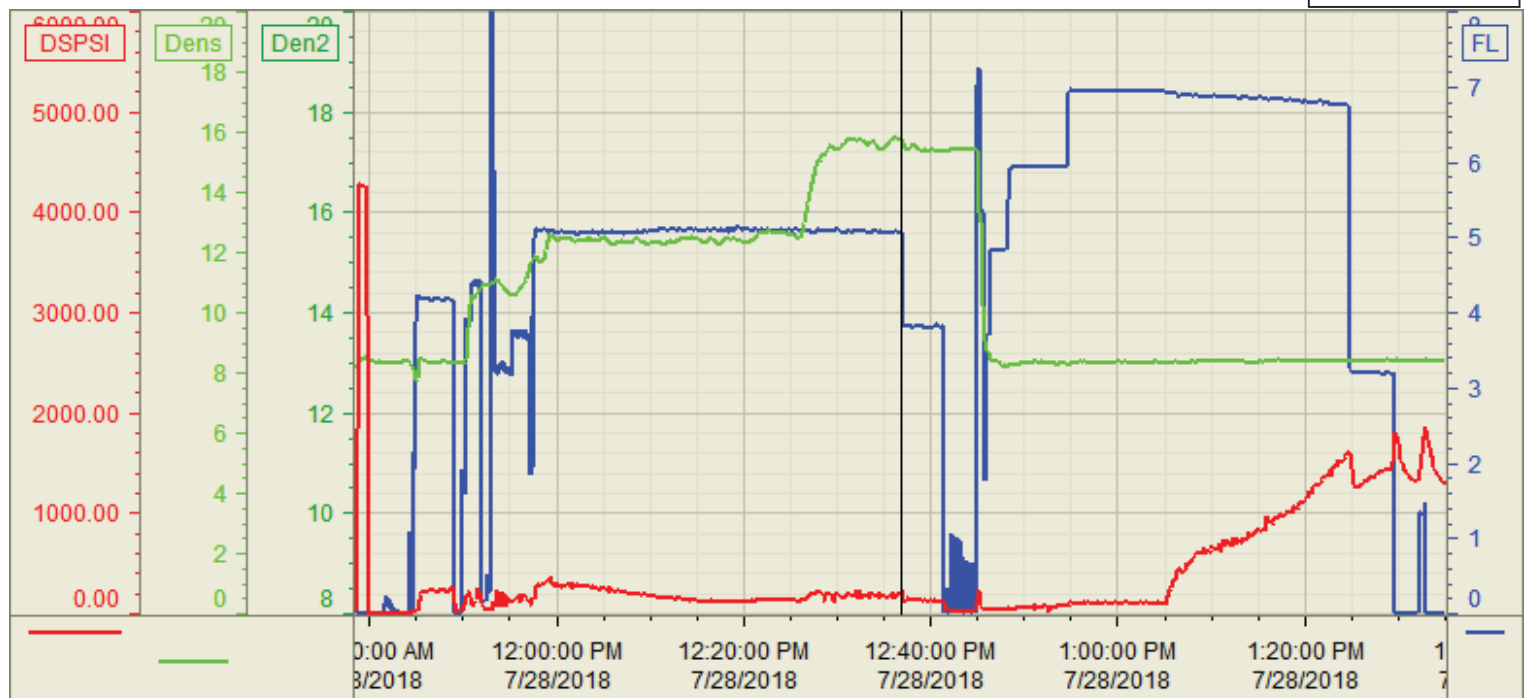


17	07/28/2018 13:25	Other (See comment)	8.3000	3.00	18.00	1,200.00	Slowed rate to land plug
18	07/28/2018 13:29	Land Plug					Bumped plug , pump 260bbls of displacement total, got 10bbls of cement to surface
19	07/28/2018 13:35	Check Floats					Check float, held 2bbls back
20	07/28/2018 13:45	Safety Meeting					Held safety meeting with crew to discuss rig down and safety issues
21	07/28/2018 13:55	Rig Down					Rigged down from rig floor
22	07/28/2018 15:30	Leave Location					Crew ready to leave location

Customer: High Point  
Well Number: 4-62-02-4841CS  
Lease Info: RSU Anschutz FED



Print Date/Time  
7/28/2018 2:30:04 PM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press (PSI)	235.0	7/28/2018 12:36:49 PM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	DH - Density (PPG)	15.78 i.	7/28/2018 12:36:48 PM i.	Cementer\DENSITY2_ACTUAL_RATE
3	BPM	5.07 i.	7/28/2018 12:36:48 PM i.	Cementer\Flow_Combined
4				
5				

Source: Control1 2:29:58 PM