



# HighPoint Operating Corporation

Fox Creek 33-0362D

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API # 05-123-48706

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**Kick Off Plug**

August 19, 2019

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**Quote #:** QUO-35481-H0J7L9

**Execution #:** EXC-20556-P2V5L202



# HighPoint Operating Corporation

Attention: Mr. Tim Brown | (303) 312-8756 | tibrown@hpres.com

HighPoint Operating Corporation | 555 17th Street, Suite 3700 | Denver, CO. 80202

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Dear Mr. Tim Brown,

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@bjservices.com

Field Office 1716 East Allison Rd., Cheyenne WY, 82007  
Phone: (307) 222-3975

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

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# BJ Cementing Treatment Report

<b>SERVICE SUPERVISOR</b>	Edgar Rodriguez	<b>RIG</b>	Cade 23
<b>CLIENT FIELD REPRESENTATIVE</b>	Dustin Smith	<b>COUNTY</b>	WELD
<b>DISTRICT</b>	Cheyenne, WY	<b>STATE / PROVINCE</b>	CO
<b>SERVICE</b>	Cementing		

## WELL GEOMETRY

TYPE	ID (in)	OD (in)	WEIGHT (lb/ft)	MD (ft)	TVD (ft)	EXCESS (%)
Open Hole	8.75	0.00	0.00	7,834.00		20.00
Drill Pipe	3.83	4.50	16.60	7,500.00		

## HARDWARE

<b>Landing Collar Depth (ft)</b>	7,500	<b>Job Pumped Through</b>	Manifold
<b>Pipe Movement</b>	None	<b>Top Connection Size</b>	4.5

## CIRCULATION PRIOR TO JOB

<b>Well Circulated By</b>	Rig	<b>Mud Density In (ppg)</b>	9.90
<b>Circulation Prior to Job</b>	Yes	<b>Mud Density Out (ppg)</b>	9.90
<b>Circulation Time (min)</b>	20.00	<b>Solids Present at End of Circulation</b>	No
<b>Circulation Rate (bpm)</b>	5.00	<b>Flare Prior to / during the Cement Job</b>	No
<b>Circulation Volume (bbls)</b>	100.00	<b>Gas Present</b>	No
<b>Lost Circulation Prior to Cement Job</b>	No		

## TEMPERATURE

<b>Ambient Temperature (°F)</b>	70.00	<b>Slurry Cement Temperature (°F)</b>	70.00
<b>Mix Water Temperature (°F)</b>	70.00		

## FLUID DETAILS

FLUID TYPE	FLUID NAME	DENSITY (ppg)	YIELD (Cu Ft/sk)	H <sub>2</sub> O REQ (gals/sk)	VOL (sk)	VOL (Cu Ft)	VOL (bbls)
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	11.0000					24.0000
Tail Slurry	BJ Cem PL100.6.0XC	17.0000	0.9921	3.76	250	249.0000	44.2000
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	11.0000					6.0000
Displacement Final	WBM	9.9000				0.0000	90.0000

Client: HighPoint Operating Corporation

Well: FOX CREEK #33-0362D

Well API: 05-123-48706

Start Date: 8/19/2019

End Date: 8/19/2019



FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ SPacer	SAND, S-8, Silica Flour, 200 Mesh	180.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ SPacer	IntegraGuard GW-86	0.9000	PPB
Tail Slurry	BJ Cem PL100.6.0XC	RETARDER, SR-20	0.3000	BWOB
Tail Slurry	BJ Cem PL100.6.0XC	CEMENT, CLASS G	100.0000	PCT
Tail Slurry	BJ Cem PL100.6.0XC	DISPERSANT, CD-31	0.5000	BWOB

### DISPLACEMENT AND END OF JOB SUMMARY

<b>Displaced By</b>	BJ	<b>Did Float Hold?</b>	No
<b>Calculated Displacement Vol (bbls)</b>	91.00	<b>Were Returned Planned at Surface</b>	No
<b>Actual Displacement Vol (bbls)</b>	90.00	<b>Total Volume Pumped (bbls)</b>	90.00

Client: HighPoint Operating Corporation

Well: FOX CREEK #33-0362D

Well API: 05-123-48706

Start Date: 8/19/2019

End Date: 8/19/2019



# BJ Cementing Event Log

Kick-off plug - Cheyenne, WY - Edgar Rodriguez

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	08/19/2019 01:05	Callout					CALLED OUT FOR HIGHPOINT OPERATING WHIPSTOCK PLUG
2	08/19/2019 02:45	Depart for Location					CREW LEAVE YARD
3	08/19/2019 03:45	Arrive on Location					ARRIVE ON LOCATION
4	08/19/2019 03:50	Other (See comment)					GET NUMBERS FROM CUSTOMER REP / RIG GOING IN WITH DRILLPIPE
5	08/19/2019 04:00	STEACS Briefing					STEACS BRIEFING
6	08/19/2019 04:10	Spot Units					SPOT EQUIPMENT
7	08/19/2019 04:20	STEACS Briefing					STEACS BRIEFING
8	08/19/2019 04:50	Rig Up					RIG UP GROUND
9	08/19/2019 05:00	Rig					RIG GOING IN WITH DRILL PIPE
10	08/19/2019 08:10	STEACS Briefing					JOB STEACS BRIEFING
11	08/19/2019 08:25	Rig Up					SWITCH LINES TO PUMP
12	08/19/2019 08:29	Other (See comment)	8.3000	2.00	3.00	50.00	LOAD LINES
13	08/19/2019 08:32	Pressure Test	8.3000	1.00	1.00	1500.00	TEST LINES
14	08/19/2019 08:35	Batch Mix Spacer					BATCH MIX SPACER
15	08/19/2019 08:38	Pump Spacer	11.0000	3.00	24.00	100.00	PUMPING SPACER INTEGRAGUARD EZ SPACER
16	08/19/2019 08:49	Pumping Cement	17.0000	3.00	44.00	150.00	PUMPING 250 SKS CLASS G CEMENT
17	08/19/2019 09:03	Pump Spacer	11.0000	3.00	6.00	100.00	PUMPING SPACER INTEGRAGUARD EZ SPACER
18	08/19/2019 09:05	Pump Displacement	9.9000	3.00	90.00	50.00	PUMPING WBM DISPLACEMENT
19	08/19/2019 09:35	Rig Down	9.9000	3.00	90.00	130.00	AT 90 BBLs GONE PRESSURE STARTED TO CLIMB
20	08/19/2019 09:38	Rig Down	9.9000	3.00	90.00	130.00	SHUTDOWN / WHEN LINE WAS RIGGED DOWN, FLUID WAS COMING BACK, A TOTAL OF 1.25 BBLs BACK INTO DISPLACEMENT TANKS AND THEN IT STOPPED FLOWING BACK
21	08/19/2019 09:38	Rig					RIG COMING OUT OF THE HOLE WITH DRILLPIPE



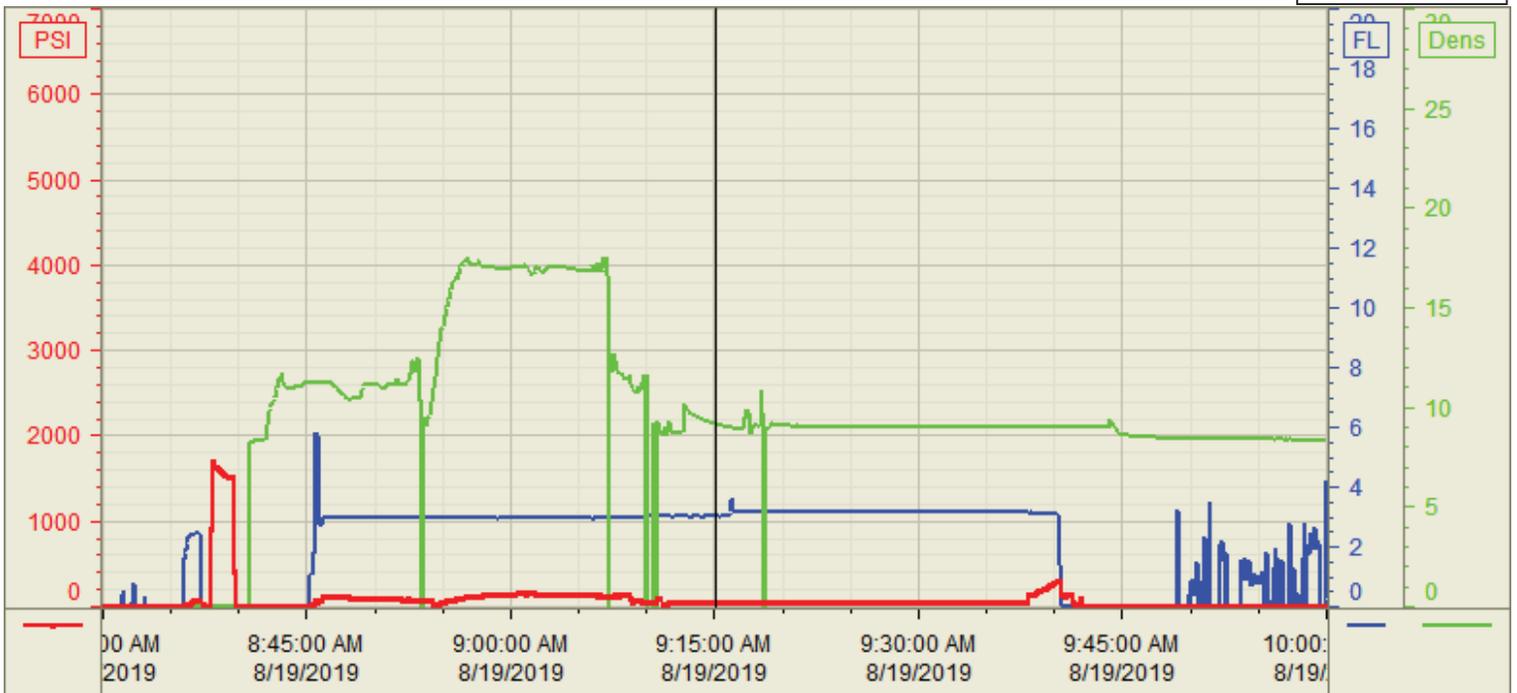
22	08/19/2019 09:40	Wash Pumps and Lines					CLEAN LINES AND PUMPS
23	08/19/2019 10:00	End Pumping					END JOB /
24	08/19/2019 10:05	STEACS Briefing					STEACS BRIEFING
25	08/19/2019 10:15	Rig Down					RIG DOWN
26	08/19/2019 10:35	Leave Location					CREW LEAVE LOCATION



Customer: HighPoint Operating  
 Well Number: 33-0362D  
 Lease Info: Fox Creek



Print Date/Time  
 8/19/2019 10:57:14 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press (PSI)	39.8	8/19/2019 9:15:00 AM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Den - Density (PPG)	9.16 i.	8/19/2019 9:15:00 AM i.	Cementer\DENSITY_ACTUAL_RATE
3	Pump Rate	3.03	8/19/2019 9:15:00 AM	Cementer\Flow_Combined
4				
5				

Source: Control1 10:57:13 AM