



# HighPoint Operating Corporation

## Production Liner Post Job Report

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**Critter Creek 540-1411H**

S:14 T:11N R:63W 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@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>	7/16/2018	<b>Field Ticket#</b>	08635-L9G8Q30202-60666
<b>End Date</b>	7/16/2018	<b>Well</b>	CRITTER CREEK 540-1411H
<b>Client</b>	HighPoint Operating Corporation	<b>API#</b>	05-123-46848
<b>Service Sup.</b>	Andrew Hyde	<b>County</b>	WELD
<b>District</b>	Cheyenne, WY	<b>State/Province</b>	CO
<b>Type of Job</b>	Liner	<b>Project ID</b>	PRJ1008574
<b>Execution ID</b>	EXC-08635-L9G8Q302		

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Previous Casing	6.37	7.00	23.00	7,776.00	7,284.00	
Open Hole	6.13	0.00	0.00	17,761.00	7,284.00	10.00
Drill Pipe	3.34	4.00	14.00	7,440.00	7,284.00	
Liner	4.00	4.50	11.60	17,757.00	7,284.00	

**Shoe Length (ft):** 42.00

## HARDWARE

<b>Top Plug Used?</b>	Yes	<b>Centralizers Type</b>	Bow
<b>Top Plug Provided By</b>	Rig	<b>Landing Collar Depth (ft)</b>	17,700
<b>Centralizers Used</b>	Yes	<b>Tool Type</b>	Liner Hanger
<b>Centralizers Quantity</b>	120.00	<b>Tool Depth (ft)</b>	7,440.00

## CIRCULATION PRIOR TO JOB

<b>Well Circulated By</b>	Rig	<b>Mud Density In (ppg)</b>	9.00
<b>Circulation Prior to Job</b>	Yes	<b>Mud Density Out (ppg)</b>	9.00
<b>Circulation Time (min)</b>	120.00	<b>Solids Present at End of Circulation</b>	No
<b>Lost Circulation Prior to Cement Job</b>	No	<b>Flare Prior to/during the Cement Job</b>	No
		<b>Gas Present</b>	No

# 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			5,928.00				30.0000
Tail Slurry	BJCem L50.6.01C	13.5000	1.5930	7.95	7,450.00	10292	675	1,073.0000	190.9000
Displacement 1	Retarded Water	8.3300			16,413.00			0.0000	20.0000
Displacement 2	Water + Chems	8.3300			6,589.00	0	0	0.0000	130.0000
Displacement 2	Retarded Water	8.3300			13,577.00	0	0	0.0000	20.0000
Displacement Final	Water	8.3300			0.00			0.0000	90.1000

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
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	RETARDER, SR-20	0.6000	PPB
Tail Slurry	BJCem L50.6.01C	Flyash (Rockies)	50.0000	PCT
Tail Slurry	BJCem L50.6.01C	EXTENDER, BENTONITE	4.0000	BWOB
Tail Slurry	BJCem L50.6.01C	BONDING AGENT, BA-90	3.0000	LBS/SK
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, EC-2	3.0000	BWOB
Tail Slurry	BJCem L50.6.01C	GELLANT WATER, GW-86	0.1000	BWOB
Tail Slurry	BJCem L50.6.01C	RETARDER, SR-20	0.2000	BWOB
Displacement 2	Water + Chems	CLAY STABILIZER ResCare CS	0.0800	GPB
Displacement 2	Water + Chems	BIOCIDE, BIOC11139W	0.0100	GPB
Displacement 2	Retarded Water	RETARDER, R-8L	0.5000	GPB

# Cementing Treatment



## TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)
IntegraGuard EZ Spacer	5.00	30.00
BJCem L50.6.01C	5.00	190.90
Retarded Water	5.00	20.00
Water + Chems	5.00	130.00
Retarded Water	5.00	20.00
Water	5.00	90.10

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	10.00
Calculated Displacement Volume (bbls)	215.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	215.00	Amount Bled Back After Job	2.00
Did Float Hold?	Yes	Total Volume Pumped (bbls)	481
Bump Plug	No	Top Out Cement Spotted	No
Were Returns Planned at Surface	No	Lost Circulation During Cement Job	No

# EVENT LOG



**Customer Name:** HighPoint Operating Corporation  
**Well Name:** CRITTER CREEK 540-1411H  
**Job Type:** Liner  
**Quote ID:** QUO-15156-Y4Z9P9  
**Plan ID:** ORD-08635-L9G8Q3  
**Execution ID:** EXC-08635-L9G8Q302  
**District:** Cheyenne, WY  
**BJ Supervisor:** Andrew Hyde

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
1	07/15/2018 06:00	Callout					BJ crew gets called out and requested on location at 14:00
2	07/15/2018 08:30	Safety Meeting					BJ crew talks about the hazards of driving to location
3	07/15/2018 09:00	Other (See comment)					Depart yard
4	07/15/2018 11:00	Arrive on Location					Arrive on location
5	07/15/2018 11:39	Safety Meeting					BJ crew talks about the hazards of rigging up
6	07/15/2018 11:39	Rig Up					Rig up
7	07/15/2018 19:30	Safety Meeting					BJ and rig crew talk about the hazards of pumping the job
8	07/15/2018 20:25	Prime Up	8.3300	2.50	3.00	600.00	Pump 3 bbls of fill lines
9	07/15/2018 20:27	Pressure Test					Pressure test pumps and lines to 5500 psi
10	07/15/2018 20:33	Pump Spacer	8.3300	2.00	10.00	400.00	Pump 10 bbls of water spacer
11	07/15/2018 20:38	Pump Spacer	11.0000	3.50	30.00	700.00	Pump 30 bbls of spacer at 11 ppg
12	07/15/2018 20:47	Pumping Cement	13.5000	5.00	191.00	500.00	Mix up and pump 675 sks of BJCem L50.6.01C cement at 13.5 ppg, yield 1.59, 7.95 gals/sk, 191 bbls
13	07/15/2018 21:32	Other (See comment)					Shutdown line out manifold to wash pumps and lines
14	07/15/2018 21:33	Clean Pumps and Lines					Wash pumps and lines to the pit
15	07/15/2018 21:39	Other (See comment)	8.3300	5.00	5.00	1,800.00	Pump 5 bbls of water

# EVENT LOG



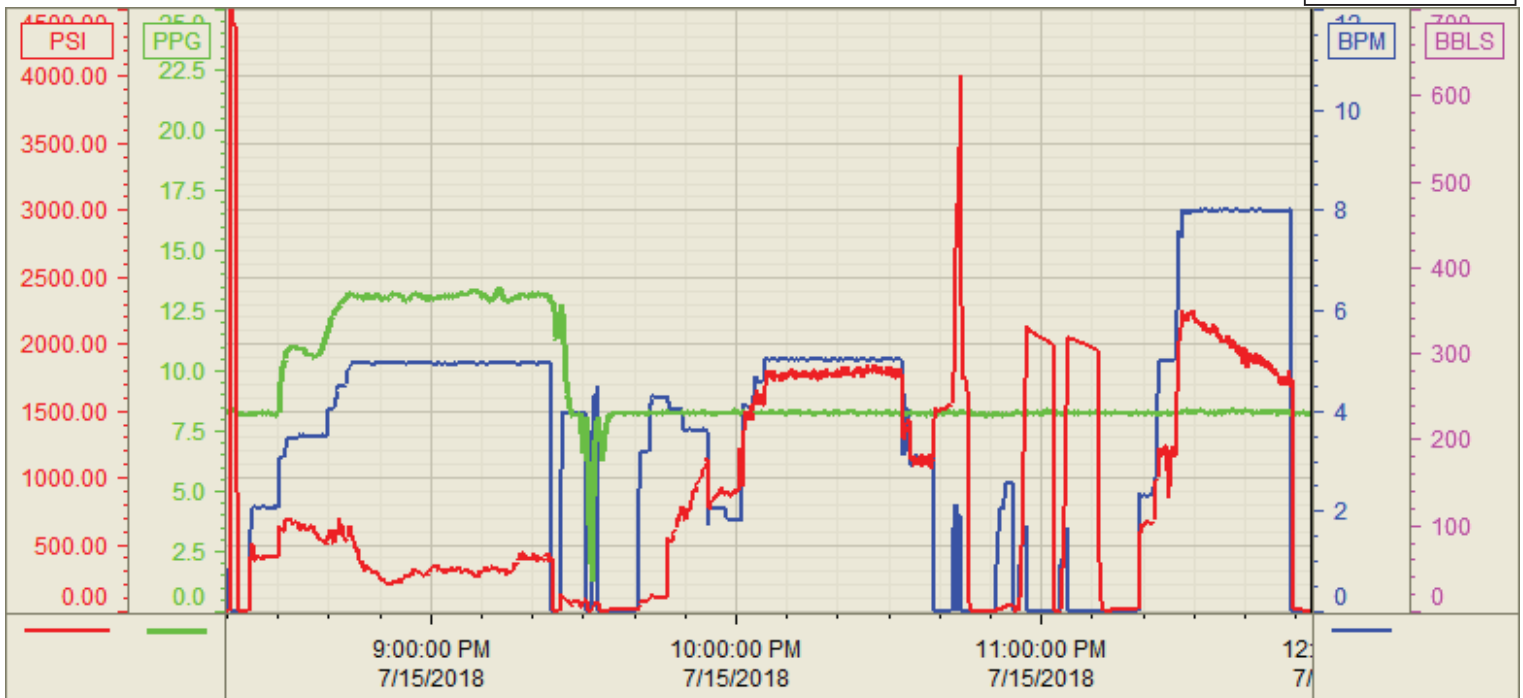
16	07/15/2018 21:47	Drop Top Plug					Tool hand dropped plug
17	07/15/2018 21:49	Pump Displacement	8.3300	5.00	195.00	1,700.00	Pump 215 bbls of water displacement
18	07/15/2018 22:42	Pump Displacement	8.3300	3.00	20.00	1,000.00	Slow rate the last 20 bbls to 2 bpm
19	07/15/2018 22:47	Land Plug					Bump plug at 1000 psi, took it up to 1575 psi
20	07/15/2018 22:50	Other (See comment)					Pressure up to 4000 psi to burst plug
21	07/15/2018 22:55	Check Floats					Got 2 bbls back to the truck
22	07/15/2018 23:03	Pressure Test					Pressure test backside to 2000 psi for 5 mins
23	07/15/2018 23:27	Other (See comment)	8.3300	8.00	180.00	2,300.00	Pump 180 bbls to clean top of liner
24	07/16/2018 00:10	Safety Meeting					BJ crew talked about the hazards of rigging down
25	07/16/2018 00:25	Rig Down					Rig down
26	07/16/2018 01:15	Leave Location					Depart location
27	07/16/2018 01:16	Other (See comment)					Estimated top of cement at 7440 ft, Circulated out 10 bbls of cement

Customer: High Point  
 Well Number: 540-1411H  
 Lease Info: Critter Creek



Print Date/Time

7/16/2018 12:03:38 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press (PSI)	0.8 i.	7/15/2018 11:53:00 PM i.	Cementer\DS_DISCHARGE_PRESS_DIAL
2	DH - Density (PPG)	8.21	7/15/2018 11:52:54 PM	Cementer\DENSITY2_ACTUAL_RATE
3	Combined Rate (BPM)	0.00	7/15/2018 11:53:00 PM	Cementer\Flow_Combined
4				
5				

Source: Control1 12:03:32 AM