



# HighPoint Operating Corporation

## Production Liner Post Job Report

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Lion Creek 23-0164B

S:23 T:11N R:64W Weld CO

Quote #:

18279

I Execution #:

10577

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# HighPoint Operating Corporation

Attention: Mr. Matthew Schwartz | (303) 312-8142 | [mschwartz@hpres.com](mailto: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](mailto: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>	9/10/2018	<b>Field Ticket#</b>	10577-H1L2F00202-61097
<b>End Date</b>	9/10/2018	<b>Well</b>	Lion Creek 23-0164B
<b>Client</b>	HighPoint Operating Corporation	<b>API#</b>	05-123-47385
<b>Service Sup.</b>	Hector Montoya	<b>County</b>	WELD
<b>District</b>	Cheyenne, WY	<b>State/Province</b>	CO
<b>Type of Job</b>	Liner	<b>Rig</b>	Savanna 802
<b>Execution ID</b>	EXC-10577-H1L2F002	<b>Project ID</b>	PRJ1010319

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Previous Casing	6.37	7.00	23.00	8,217.00		
Open Hole	6.13	0.00	0.00	18,174.00		10.00
Drill Pipe	3.34	4.00	14.00	2,019.50		
Liner	4.00	4.50	11.60	18,169.00		

Shoe Length (ft): 60.00

## HARDWARE

<b>Top Plug Used?</b>	Yes	<b>Landing Collar Depth (ft)</b>	18,174
<b>Top Plug Provided By</b>	Non BJ	<b>Job Pumped Through</b>	No Manifold
<b>Top Plug Size</b>	4.500	<b>Top Connection Thread</b>	LTC
<b>Centralizers Used</b>	Yes	<b>Top Connection Size</b>	4.5
<b>Centralizers Quantity</b>	200.00		

## CIRCULATION PRIOR TO JOB

<b>Well Circulated By</b>	Rig	<b>PV Mud In</b>	10
<b>Circulation Prior to Job</b>	Yes	<b>PV Mud Out</b>	10
<b>Circulation Time (min)</b>	77.00	<b>YP Mud In</b>	9
<b>Circulation Rate (bpm)</b>	4.50	<b>YP Mud Out</b>	9
<b>Circulation Volume (bbls)</b>	347.00	<b>Solids Present at End of Circulation</b>	No
<b>Lost Circulation Prior to Cement Job</b>	No	<b>10 sec SGS</b>	4.00
<b>Mud Density In (ppg)</b>	9.80	<b>10 min SGS</b>	7.00
<b>Mud Density Out (ppg)</b>	9.80	<b>Flare Prior to/during the Cement Job</b>	No

## TEMPERATURE

<b>Ambient Temperature (°F)</b>	80.00	<b>Slurry Cement Temperature (°F)</b>	74.00
<b>Mix Water Temperature (°F)</b>	70.00	<b>Flow Line Temperature (°F)</b>	73.00

# 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			6,253.00				30.0000
Tail Slurry	BJCem L50.6.01C	13.5000	1.5930	7.95	7,775.00	10506	670	1,096.0000	195.1000
Displacement 1	Retarded Water	8.3300			16,952.00			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	279.000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	RETARDER, SR-20	0.6000	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	GELLANT WATER, GW-86	0.8000	PPB
Tail Slurry	BJCem L50.6.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
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	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem L50.6.01C	BONDING AGENT, EC-2	3.0000	BWOB
Tail Slurry	BJCem L50.6.01C	FLUID LOSS, FL-24	0.4000	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	BONDING AGENT, BA-90	3.0000	LBS/SK
Displacement 2	Water + Chem	BIOCIDE, BIOC11139W	0.0100	GPB
Displacement 2	Water + Chem	CLAY STABILIZER ResCare CS	0.0800	GPB
Displacement 2	Retarded Water	RETARDED, 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	195.10
Retarded Water	5.00	20.00
Water + Chem	5.00	130.00
Retarded Water	5.00	20.00
Water	5.00	279.0

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ Services	Amount of Cement Returned/Reversed	27.00
Calculated Displacement Volume (bbls)	219.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	219.00	Amount of Spacer to Surface	20.00
Did Float Hold?	Yes	Amount Bled Back After Job	3.50
Bump Plug	Yes	Total Volume Pumped (bbls)	219.00
Bump Plug Pressure (psi)	1,800.00	Top Out Cement Spotted	No
Were Returns Planned at Surface	Yes	Lost Circulation During Cement Job	No
Cement returns During Job	None		

# EVENT LOG



**Customer Name:** HighPoint Operating Corporation

**Well Name:** LION CREEK 23-0164B

**Job Type:** Liner

**Quote ID:** QUO-18279-X9K2R2

**Plan ID:** ORD-10577-H1L2F0

**District:** Cheyenne, WY

**Execution ID:** EXC-10577-H1L2F002

**BJ Supervisor:** Hector Montoya

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	09/10/2018 09:00	Callout					BJ Crew gets called out
2	09/10/2018 12:00	Safety Meeting					BJ Crew talks about the hazards of driving to location
3	09/10/2018 12:20	Arrive on Location					BJ Crew safely arrives on location
4	09/10/2018 14:00	Safety Meeting					BJ Crew talks about the hazards of spotting equipment and rigging up
5	09/10/2018 14:30	Rig Up					BJ Crew rigs up
6	09/10/2018 16:30	Other (See comment)					Wait on rig to finish running pipe and circulate well
7	09/10/2018 19:00	Safety Meeting					BJ Crew and Rig Crew talk about the hazards of pumping the job
8	09/10/2018 19:20	Prime Up					Prime Up
9	09/10/2018 19:23	Pressure Test					Pressure test to 6000psi
10	09/10/2018 19:26	Pump Spacer	8.3300	2.50	10.00	220.00	Pump 10bbl water spacer
11	09/10/2018 19:34	Pump Spacer	11.0000	4.00	30.00	1,058.00	Pump 30bbl Spacer at 11ppg
12	09/10/2018 19:46	Pump Tail Cement	13.5000	5.00	195.00	498.00	Pump 195bbl of cement at 13.5ppg, 690sks of BJ CemL50.6.01C, yield1.59, gal/sk 7.95
13	09/10/2018 20:29	Clean Pumps and Lines					Shutdown, wash pumps in line
14	09/10/2018 20:40	Other (See comment)	8.3300	4.80	5.00	60.00	Pump 5bbl water with R-8L, shutdown
15	09/10/2018 20:43	Drop Top Plug					Customer witness plug being dropped into pipe
16	09/10/2018 20:45	Pump Displacement	8.3300	4.80	205.00	2,000.00	Pump 219bbl displacement, slow rate at 50 away to latch plug, tubs 150 & 160 pumped with 10gal of R-8L
17	09/10/2018 21:37	Pump Displacement	8.3300	3.00	14.00	1,800.00	Slow rate last 10bbl to 3bpm
18	09/10/2018 21:39	Land Plug					Land plug at 1400psi, took to 1870psi
19	09/10/2018 21:42	Check Floats					3.5bbl back to the truck
20	09/10/2018 21:55	Pressure Test					Pressure test backside to 2000psi for 5min

## EVENT LOG



21	09/10/2018 22:00	Other (See comment)	8.3300	4.00	30.00	5,011.00	Burst tool, took pressure to 5011pis, then pressure dropped off and gradually picked rate up
22	09/10/2018 22:10	Other (See comment)	8.3300	7.60	200.00	1,900.00	Roll Hole with 230bbl at 7.8bpm
23	09/10/2018 22:45	Other (See comment)					Saw 20bbl Spacer to Surface and 27bbl of cement to surface
24	09/10/2018 22:46	Safety Meeting					BJ Crew talks about the hazards of rigging the job down
25	09/10/2018 23:00	Rig Down					Rig Down
26	09/10/2018 23:31	Leave Location					Depart location
27	09/10/2018 23:58	Other (See comment)					Got 20bbl Spacer to Surface, 27bbl Cement to surface, bumped plug at 1400psi took to 1850psi



JobMaster Program Version 4.02C1

Job Number:

Customer: High Point

Well Name: Lion Creek 23-0164B

