



# HighPoint Operating Corporation

GRINDE 01-64-05-6457B

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API # 05-123-50642

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Intermediate

December 11, 2019

Quote #: QUO-39883-H4H0D1

Execution #: EXC-23133-T9G0S102



# HighPoint Operating Corporation

Attention: Mr. Matthew Schwartz | (303) 312-8142 | mschwartz@hpres.com

HighPoint Operating 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) 365-9038 | jason.creel@bjservices.com

Field Office 1716 East Allison Rd., Cheyenne WY, 82007  
Phone: (307) 459-6487

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

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# BJ Cementing Treatment Report

SERVICE SUPERVISOR	Eric Dewit	RIG	Cade 23
DISTRICT	Cheyenne, WY	COUNTY	WELD
SERVICE	Cementing	STATE / PROVINCE	CO

## WELL GEOMETRY

TYPE	ID (in)	OD (in)	WEIGHT (lb/ft)	MD (ft)	TVD (ft)	EXCESS (%)	GRADE
Open Hole	8.75	0.00	0.00	7,505.00	7,041.00	20.00	
Casing	6.37	7.00	23.00	7,479.00	7,041.00		J-55
Previous Casing	8.92	9.63	36.00	1,256.00	1,256.00		

## HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	7,432.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	5000.00
Top Plug Size	7.000	Max Casing Pressure - Operated (psi)	4000.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Type	Bow	Job Pumped Through	No Manifold
Landing Collar Depth (ft)	7,432	Top Connection Thread	1502
		Top Connection Size	2

## CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Mud Density Out (ppg)	10.00
Circulation Prior to Job	Yes	Solids Present at End of Circulation	No
Circulation Time (min)	60.00	Flare Prior to / during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)	10.00		

## TEMPERATURE

Ambient Temperature (°F)	28.00	Mix Water Temperature (°F)	50.00
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## FLUID DETAILS

FLUID TYPE	FLUID NAME	DENSITY (ppg)	YIELD (Cu Ft/sk)	H <sub>2</sub> O REQ (gals/sk)	PLN TOP FLD (ft)	LENGTH (ft)	VOL (sk)	VOL (Cu Ft)	VOL (bbls)
Spacer / Pre Flush / Flush	Fresh Water	8.3300			2,006.00				40.0000
Lead Slurry	BJCem I100.3.01C	12.5000	2.0726	11.83	3,500.00	3,465.00	305	633.0000	112.6000
Tail Slurry	BJCem I100.6.01C	15.8000	1.1570	4.99	6,965.00	500.00	90	105.0000	18.5000
Displacement Final	Water	8.3300			0.00			0.0000	292.1000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Lead Slurry	BJCem I100.3.01C	RETARDER, SR-20	0.3000	BWOB
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	FLUID LOSS, FL-24	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	BONDING AGENT, BA-60	0.3000	BWOB
Tail Slurry	BJCem I100.6.01C	BONDING AGENT, BA-60	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	FLUID LOSS, FL-24	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	DISPERSANT, CD-31	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	RETARDER, R-6	0.3000	BWOB
Tail Slurry	BJCem I100.6.01C	CEMENT, CLASS G	100.0000	PCT
Tail Slurry	BJCem I100.6.01C	FOAM PREVENTER, FP-25	0.3000	BWOB

## DISPLACEMENT AND END OF JOB SUMMARY

<b>Displaced By</b>	BJ	<b>Amt of Cement Returned / Reversed</b>	0.00
<b>Calculated Displacement Vol (bbls)</b>	292.60	<b>Method Used to Verify Returns</b>	Visual
<b>Actual Displacement Vol (bbls)</b>	292.60	<b>Amt of Spacer to Surface</b>	0.00
<b>Did Float Hold?</b>	Yes	<b>Pressure Left on Casing (psi)</b>	0.00
<b>Bump Plug</b>	Yes	<b>Amt Bled Back After Job</b>	2.50
<b>Were Returns Planned at Surface</b>	No	<b>Top Out Cement Spotted</b>	No
<b>Cement Returns During Job</b>	None	<b>Lost Circulation During Cement Job</b>	No

# BJ Cementing Event Log

Intermediate - Cheyenne, WY - Eric Dewit

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	12/10/2019 14:30	Callout					Customer calls with an RTS of 19:30 on 12/10/19, Crew gets equipment, and materials ready to travel to location
2	12/10/2019 17:30	Depart for Location					
3	12/10/2019 19:14	Arrive on Location					Arrive on location, rig still running casing
4	12/10/2019 19:14	STEACS Briefing					Pre-rig up safety meeting
5	12/10/2019 19:25	Spot Units					
6	12/10/2019 19:35	Rig Up					
7	12/10/2019 21:30	STEACS Briefing					Pre-job safety meeting with, BJ crew, rig crew, and company man
8	12/10/2019 21:54	Other (See comment)	8.3400	2.40	2.00	41.00	Load lines with 2 bbls of fresh water
9	12/10/2019 21:56	Pressure Test	8.3400	0.00	0.00	4800.00	
10	12/10/2019 22:05	Pump Spacer	8.3400	6.00	40.00	754.00	Pump 40 bbls of fresh water ahead
11	12/10/2019 22:14	Pump Lead Cement	12.5000	6.00	112.00	799.00	Pump 305 sks of lead cement @12.5 ppg (Yield: 2.07 Mix Water: 11.83)
12	12/10/2019 22:38	Pump Tail Cement	15.8000	3.00	18.50	167.00	Pump 90 sks of tail cement @15.8 ppg (Yield: 1.15 Mix Water: 4.99)
13	12/10/2019 22:50	Drop Top Plug					
14	12/10/2019 22:55	Pump Displacement	8.3400	7.20	0.00	289.00	Send plug start fresh water displacement
15	12/10/2019 23:11	Pump Displacement	8.3400	7.20	100.00	927.00	
16	12/10/2019 23:24	Pump Displacement	8.3400	7.20	200.00	1054.00	
17	12/10/2019 23:34	Pump Displacement	8.3400	3.00	270.00	1148.00	Drop rate to land the plug
18	12/10/2019 23:40	Land Plug	8.3400	0.00	292.80	2121.00	Land plug (Final circulating pressure was 1,355)
19	12/10/2019 23:44	Check Floats	8.3400	0.00	0.00	0.00	Check floats (floats held) 3bbls back
20	12/10/2019 23:47	Other (See comment)	8.3400	0.00	0.00	0.00	15 min. casing test (starting PSI was 2080, ending PSI was 2,380)
21	12/11/2019 00:05	STEACS Briefing					Pre-rig down safety meeting
22	12/11/2019 00:10	Rig Down					Rig everything down
23	12/10/2019 00:30	Leave Location					Crew ready to leave location

Client: HighPoint Operating Corporation

Well Name / API: GRINDE 01-64-05-6457B / 05-123-50642

Well 7505 MD:



Quote #: QUO-39883-H4H0D1

Plan #: ORD-23133-T9G0S1

Execution #: EXC-23133-T9G0S102



JobMaster Program Version 4.02C1

Job Number: 19957

Customer: HighPoint

Well Name: Grinde 01-64-05-6457B

### Intermediate (CPF-005)

