



HighPoint Operating Corporation

GRINDE 01-64-05-1724B

API # 05-123-49717

Production

January 12, 2020

Quote #: QUO-41007-C4X4F4

Execution #: EXC-23777-R2M0C202



HighPoint Operating Corporation

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

HighPoint Operating Corporation | 1099 18th St. | Denver, CO. 80202

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

BJ Cementing Treatment Report

SERVICE SUPERVISOR	Chad Johnson	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
Previous Casing	6.37	7.00	23.00	7,446.00			J-55
Casing	4.00	4.50	11.60	17,172.00			P-110
Open Hole	6.13	0.00	0.00	17,177.00		10.00	

HARDWARE

Bottom Plug Used?	No	Centralizers Type	Rigid
Top Plug Used?	Yes	Landing Collar Depth (ft)	17,158
Top Plug Provided By	Non BJ	Pipe Movement	None
Top Plug Size	4.500	Job Pumped Through	Manifold
Centralizers Used	Yes	Top Connection Thread	LTC
Centralizers Quantity	123.00	Top Connection Size	4.5

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Mud Density Out (ppg)	8.90
Circulation Prior to Job	Yes	Solids Present at End of Circulation	No
Circulation Time (min)	90.00	Flare Prior to / during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)	8.90		

TEMPERATURE

Ambient Temperature (°F)	40.00	Mix Water Temperature (°F)	70.00
--------------------------	-------	----------------------------	-------

FLUID DETAILS

FLUID TYPE	FLUID NAME	DENSITY (ppg)	YIELD (Cu Ft/sk)	H ₂ 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			1,470.00				40.0000
Tail Slurry	BJCem P50.6.01C	13.5000	1.5930	7.95	3,500.00	13,577.00	900	1434.0000	255.3000
Displacement 1	Retarded Water	8.3300			15,785.00			0.0000	20.0000
Displacement Final	Water + Chems	8.3300			0.00			0.0000	245.3000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Tail Slurry	BJCem P50.6.01C	RETARDER, SR-20	0.2000	BWOB
Tail Slurry	BJCem P50.6.01C	Flyash (Rockies)	50.0000	PCT
Tail Slurry	BJCem P50.6.01C	IntegraCare EC-2	3.0000	BWOB
Tail Slurry	BJCem P50.6.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem P50.6.01C	IntegraGuard GW-86	0.1000	BWOB
Tail Slurry	BJCem P50.6.01C	EXTENDER, BENTONITE	4.0000	BWOB
Tail Slurry	BJCem P50.6.01C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem P50.6.01C	BONDING AGENT, BA-90	3.0000	LBS/SK
Tail Slurry	BJCem P50.6.01C	FLUID LOSS, FL-24	0.4000	BWOB
Displacement Final	Water + Chems	BIOCIDE, BIOC11139W	0.0210	GPB
Displacement Final	Water + Chems	OXYGEN SCAVENGER, OS-30	0.1680	GPB
Displacement Final	Water + Chems	CORROSION INHIBITORS, CI-27	0.2100	GPB

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	0.00
Calculated Displacement Vol (bbls)	266.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	266.00	Amt of Spacer to Surface	0.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amt Bled Back After Job	0.50
Bump Plug Pressure (psi)	1000.00	Total Volume Pumped (bbls)	565.00
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement Returns During Job	None	Lost Circulation During Cement Job	No

BJ Cementing Event Log

Long String - Cheyenne, WY - Chad Johnson

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	01/12/2020 05:00	Callout					Crew called out requested on location for 1100
2	01/12/2020 10:00	Arrive on Location					Crew arrived on location
3	01/12/2020 10:05	STEACS Briefing					Safety meeting
4	01/12/2020 10:20	Spot Units					Spotted all units
5	01/12/2020 10:30	Rig Up					Rigged up all equipment
6	01/12/2020 11:30	Client					Waiting on rig to circulate the well
7	01/12/2020 12:00	STEACS Briefing					Safety meeting
8	01/12/2020 12:34	Prime Up	8.3400	3.00	5.00	500.00	Fill lines
9	01/12/2020 12:37	Pressure Test					Pressure test lines to 5000 psi
10	01/12/2020 12:41	Pump Spacer	8.3400	6.00	40.00	1000.00	Pump water spacer
11	01/12/2020 12:51	Pump Tail Cement	13.5000	6.00	255.00	1000.00	Pump tail cement, (900 sks, 1.59Y, 7.95 gal/sk)
12	01/12/2020 13:43	Other (See comment)					Shutdown
13	01/12/2020 13:48	Wash Pumps and Lines					Wash pumps and lines to pit
14	01/12/2020 13:50	Drop Top Plug					Drop top plug
15	01/12/2020 13:53	Pump Displacement	8.3400	6.00	250.00	1500.00	Pump displacement
16	01/12/2020 14:34	Other (See comment)	8.3400	3.00	16.00	1000.00	Slow pump rate
17	01/12/2020 14:40	Land Plug					Land plug at 1000 psi took to 1500 psi, shutdown, pressure up to 3300 psi rupture wet shoe, pump 0.5 bbls shutdown
18	01/12/2020 14:46	Check Floats					Check floats, floats holding, 0.5 bbls back
19	01/12/2020 14:50	STEACS Briefing					Safety meeting
20	01/12/2020 15:10	Rig Down					Rigged down all equipment
21	01/12/2020 16:30	Leave Location					Crew departed location

Client: HighPoint Operating Corporation

Well Name / API: GRINDE #01-64-05-1724B / 05-123-49717

Well MD: 17177



Quote #: QUO-41007-C4X4F4

Plan #: ORD-23777-R2M0C2

Execution #: EXC-23777-R2M0C202



JobMaster Program Version 4.02C1

Job Number:

Customer: High Point

Well Name: Grinde 01-64-05-1724B

