



HighPoint Operating Corporation

Grinde 01-64-05-3340B

API # 05-123-49719

Intermediate

November 06, 2019

Quote #: QUO-38527-D5X9S7

Execution #: EXC-22324-X2M8X802



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
Open Hole	8.75	0.00	0.00	7,540.00	6,988.00	20.00	
Previous Casing	8.92	9.63	36.00	1,254.00	1,254.00		
Casing	6.37	7.00	23.00	7,530.00	6,988.00		J-55

HARDWARE

Bottom Plug Used?	No	Centralizers Type	Rigid
Top Plug Used?	Yes	Landing Collar Depth (ft)	7,864
Top Plug Provided By	Non BJ	Pipe Movement	None
Top Plug Size	7.000	Job Pumped Through	Manifold
Centralizers Used	Yes	Top Connection Thread	LTC
		Top Connection Size	7

CIRCULATION PRIOR TO JOB

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

TEMPERATURE

Ambient Temperature (°F)	35.00	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			2,006.00				40.0000
Lead Slurry	BJCem I100.3.01C	12.5000	2.0726	11.83	3,500.00	3,480.00	305	633.0000	112.6000
Tail Slurry	BJCem I100.6.01C	15.8000	1.1570	4.99	6,980.00	500.00	90	105.0000	18.5000
Displacement Final	Water	8.3300			0.00			0.0000	292.7000

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

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	0.00
Calculated Displacement Vol (bbls)	295.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	295.00	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	2.00
Bump Plug Pressure (psi)	1200.00	Total Volume Pumped (bbls)	466.00
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

Intermediate - Cheyenne, WY - Chad Johnson

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	11/06/2019 07:00	Callout					Crew called out requested on location for 1230
2	11/06/2019 12:00	Arrive on Location					Crew arrived on location
3	11/06/2019 12:05	STEACS Briefing					Safety meeting
4	11/06/2019 12:20	Spot Units					Spotted all units
5	11/06/2019 12:30	Rig Up					Rigged up all equipment
6	11/06/2019 14:00	Client					Waiting on rig to finish running casing and circulate the well
7	11/06/2019 16:30	STEACS Briefing					Safety meeting
8	11/06/2019 16:54	Prime Up	8.3400	4.00	5.00	300.00	Fill lines
9	11/06/2019 16:55	Pressure Test					Pressure test lines to 4000 psi
10	11/06/2019 17:00	Pump Spacer	8.3400	6.00	40.00	400.00	Pump spacer
11	11/06/2019 17:10	Pump Lead Cement	12.5000	6.00	112.00	600.00	Pump lead cement (305 sks, 2.07 Y, 11.83 gal/sk)
12	11/06/2019 17:38	Pump Tail Cement	15.8000	4.00	19.00	300.00	Pump tail cement (90 sks, 1.16 Y, 4.99 gal/sk)
13	11/06/2019 17:45	Other (See comment)					Shut down
14	11/06/2019 17:46	Drop Top Plug					Drop top plug
15	11/06/2019 17:52	Pump Displacement	8.3400	6.00	280.00	1500.00	Pump displacement
16	11/06/2019 18:35	Other (See comment)	8.3400	3.00	15.00	1200.00	Slow rate
17	11/06/2019 18:40	Land Plug					Land plug at 1200 psi took to 1600psi, Pressure up for 15 min casing test at 2000 psi
18	11/06/2019 18:55	Check Floats					Check floats, floats holding, 2 bbls back
19	11/06/2019 19:00	STEACS Briefing					Safety meeting
20	11/06/2019 19:15	Rig Down					Rigged down all equipment
21	11/06/2019 20:30	Leave Location					Crew departed location

Client: HighPoint Operating Corporation

Well Name / API: GRINDE #01-64-05-3340B / 05-123-49719

Well MD: 7540



Quote #: QUO-38527-D5X9S7

Plan #: ORD-22324-X2M8X8

Execution #: EXC-22324-X2M8X802



JobMaster Program Version 4.02C1
Job Number: 2165
Customer: Devon
Well Name: GRINDE 01-64-05-3340B

