



HighPoint Operating Corporation

Fox Creek 34-0164B

API # 05-123-49947

Intermediate

October 30, 2019

Quote #: QUO-38278-Q6R7H4

Execution #: EXC-22164-X6C0Q202



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@bjsservices.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 | Eric Dewit | RIG | Savanna 802 |
| 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 (%) |
|-----------------|---------|---------|----------------|----------|----------|------------|
| Open Hole | 8.75 | 0.00 | 0.00 | 8,309.00 | | 20.00 |
| Previous Casing | 8.92 | 9.63 | 36.00 | 1,546.00 | | |
| Casing | 6.37 | 7.00 | 23.00 | 8,245.00 | | |

HARDWARE

| | | | |
|---------------------------|--------|--------------------------------------|--------------|
| Bottom Plug Used? | No | Tool Type | Float Collar |
| Top Plug Used? | Yes | Tool Depth (ft) | 8,200.00 |
| Top Plug Provided By | Non BJ | Max Casing Pressure - Rated (psi) | 4000.00 |
| Top Plug Size | 7.000 | Max Casing Pressure - Operated (psi) | 3000.00 |
| Centralizers Used | Yes | Pipe Movement | None |
| Centralizers Quantity | 12.00 | Job Pumped Through | Manifold |
| Centralizers Type | Bow | Top Connection Thread | LTC |
| Landing Collar Depth (ft) | 8,200 | Top Connection Size | 7 |

CIRCULATION PRIOR TO JOB

| | | | |
|--------------------------------------|--------|--|------|
| Well Circulated By | Rig | Mud Density In (ppg) | 9.70 |
| Circulation Prior to Job | No | Mud Density Out (ppg) | 9.70 |
| Circulation Time (min) | 1.00 | Solids Present at End of Circulation | No |
| Circulation Rate (bpm) | 5.00 | Flare Prior to / during the Cement Job | No |
| Circulation Volume (bbls) | 300.00 | Gas Present | No |
| Lost Circulation Prior to Cement Job | No | | |

TEMPERATURE

| | | | |
|----------------------------|-------|--------------------------------|-------|
| Ambient Temperature (°F) | 8.00 | Slurry Cement Temperature (°F) | 46.00 |
| Mix Water Temperature (°F) | 45.00 | | |

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 | 4,221.00 | 370 | 767.0000 | 136.6000 |
| Tail Slurry | BJCem I100.6.01C | 15.8000 | 1.1570 | 4.99 | 7,721.00 | 500.00 | 90 | 105.0000 | 18.5000 |
| Displacement Final | Water | 8.3300 | | | 0.00 | | | 0.0000 | 321.9000 |

| 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 | FOAM PREVENTER, FP-25 | 0.3000 | BWOB |
| Lead Slurry | BJCem I100.3.01C | BONDING AGENT, BA-60 | 0.3000 | BWOB |
| Lead Slurry | BJCem I100.3.01C | RETARDER, SR-20 | 0.3000 | BWOB |
| Tail Slurry | BJCem I100.6.01C | RETARDER, R-6 | 0.3000 | BWOB |
| Tail Slurry | BJCem I100.6.01C | DISPERSANT, CD-31 | 0.2000 | 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 | FLUID LOSS, FL-24 | 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) | 322.00 | Method Used to Verify Returns | Visual |
| Actual Displacement Vol (bbls) | 322.00 | 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 | 2.50 |
| Bump Plug Pressure (psi) | 2004.00 | Total Volume Pumped (bbls) | 518.00 |
| 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 - Eric Dewit

| SEQ | START DATE / TIME | EVENT | DENSITY (ppg) | PUMP RATE (bpm) | PUMP VOL (bbls) | PIPE PRESSURE (psi) | COMMENTS |
|-----|-------------------|---------------------|---------------|-----------------|-----------------|---------------------|---|
| 1 | 10/29/2019 09:00 | Callout | | | | | Customer calls with an RTS of 15:00 on 10/29/19 |
| 2 | 10/29/2019 09:00 | Other (See comment) | | | | | Crew get equipment and materials ready to travel to location |
| 3 | 10/29/2019 13:30 | Depart for Location | | | | | Crew leaves to travel to location |
| 4 | 10/29/2019 14:30 | Arrive on Location | | | | | Arrive on location rig is still running casing |
| 5 | 10/29/2019 14:30 | STEACS Briefing | | | | | Pre-rig up safety meeting |
| 6 | 10/29/2019 14:40 | Spot Units | | | | | Spot trucks |
| 7 | 10/29/2019 14:50 | Rig Up | | | | | Rig up |
| 8 | 10/29/2019 15:50 | Rig | | | | | Waiting on the rig to finish running casing, and circulate |
| 9 | 10/29/2019 20:30 | STEACS Briefing | | | | | Pre-job safety meeting with BJ crew, rig crew, and company man |
| 10 | 10/29/2019 20:45 | Rig Up | | | | | Rig up cement head on rig floor |
| 11 | 10/29/2019 21:15 | Other (See comment) | 8.3400 | 2.80 | 2.00 | 0.00 | Pump 2 bbls of fresh water ahead to load lines |
| 12 | 10/29/2019 21:33 | Pressure Test | 8.3400 | 0.00 | 0.00 | 4300.00 | |
| 13 | 10/29/2019 21:40 | Pump Spacer | 8.3400 | 5.30 | 40.00 | 579.00 | Pump 40 bbls of fresh water ahead |
| 14 | 10/29/2019 21:52 | Pump Lead Cement | 12.5000 | 5.30 | 136.00 | 616.00 | Pump 370 sks of lead cement @12.5 ppg (Yield: 2.07 mix water: 11.83) |
| 15 | 10/29/2019 22:21 | Pump Tail Cement | 15.8000 | 4.00 | 18.50 | 172.00 | Pump 90 sks of tail cement @15.8 ppg (Yield: 1.15 Mix water: 4.99) |
| 16 | 10/29/2019 22:30 | Drop Top Plug | | | | | Shut down drop top plug |
| 17 | 10/29/2019 22:45 | Pump Displacement | 8.3400 | 7.40 | 0.00 | 314.00 | Send plug. start fresh water displacement |
| 18 | 10/29/2019 22:58 | Pump Displacement | 8.3400 | 7.40 | 100.00 | 657.00 | Pump displacement |
| 19 | 10/29/2019 23:08 | Equipment Issue | | | 174.00 | 0.00 | Had to shut down due to one of the valves on the 2nd water tank was broke, had to run a line from a different valve on the tank |
| 20 | 10/29/2019 23:37 | Pump Displacement | 8.3400 | 7.40 | | 1947.00 | Start pumping again |
| 21 | 10/29/2019 23:57 | Pump Displacement | 8.3400 | 2.80 | 300.00 | 1247.00 | Drop rate to land the plug |
| 22 | 10/30/2019 00:03 | Land Plug | 8.3400 | 2.80 | 322.80 | 2004.00 | Land plug, with 1480 psi, Bump up to 2004 |
| 23 | 10/30/2019 00:08 | Check Floats | 8.3400 | 0.00 | 0.00 | 0.00 | Check floats, floats held (2.5 bbls back) |
| 24 | 10/30/2019 00:11 | STEACS Briefing | | | | | Pre-rig down safety meeting |
| 25 | 10/30/2019 00:20 | Rig Down | | | | | Rig everything down |
| 26 | 10/30/2019 01:10 | Leave Location | | | | | |

Client: HighPoint Operating Corporation

Well Name / API: FOX CREEK #34-0164B / 05-123-49947

Well 8221
MD:



Quote #: QUO-38278-Q6R7H4

Plan #: ORD-22164-X6C0Q2

Execution #: EXC-22164-X6C0Q202



JobMaster Program Version 4.02C1
Job Number: 19113
Customer: HighPoint
Well Name: Fox Creek 34-0164B

Intermediate (CPF-074)

