



# Highpoint Operation Corporation

## Intermediate Post Job Report

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Anschutz Equus Farms 4-62-33-6457CN

S:32 T:4N R:62W Weld CO

Quote #:

11269

| Execution #:

06406

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# Highpoint Operation Corporation

Attention: Mr. Matthew Schwartz | (303) 312-8142 | [maschwartz@billbarrettcorp.com](mailto:maschwartz@billbarrettcorp.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,  
Jacob Ojeda  
Field Engineer I | (763) 516-3012 | [jacob.ojeda@bjsservices.com](mailto:jacob.ojeda@bjsservices.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>         | 5/5/2018                        | <b>Well</b>           | Anschutz Equus Farms 4-62-33-6457CN |
| <b>End Date</b>           | 5/5/2018                        | <b>County</b>         | WELD                                |
| <b>Client</b>             | HighPoint Operating Corporation | <b>State/Province</b> | CO                                  |
| <b>Service Supervisor</b> | Anthony J Staples               | <b>API</b>            | 05-123-45303                        |
| <b>Field Ticket No.</b>   | 5205                            | <b>Type of Job</b>    | Intermediate                        |
| <b>District</b>           | Cheyenne, WY                    |                       |                                     |

## WELL GEOMETRY

| Type            | ID (in) | OD (in) | Wt. (lb/ft) | MD (ft)  | TVD (ft) | Excess(%) | Grade |
|-----------------|---------|---------|-------------|----------|----------|-----------|-------|
| Open Hole       | 8.75    |         |             | 6,774.00 | 6,317.00 | 20.00     |       |
| Casing          | 6.37    | 7.00    | 23.00       | 6,759.00 | 6,317.00 |           | J-55  |
| Previous Casing | 8.92    | 9.63    | 36.00       | 823.00   | 823.00   |           |       |

**Shoe Length (ft):** 51

## HARDWARE

|                                  |       |   |      |
|----------------------------------|-------|---|------|
| <b>Bottom Plug Used?</b>         | No    | <b>Max Casing Pressure - Rated (psi)</b>    | 4300 |
| <b>Top Plug Used?</b>            | YES   | <b>Max Casing Pressure - Operated (psi)</b> | 3300 |
| <b>Top Plug Provided By</b>      | BJ    | <b>Pipe Movement</b>                        | NO   |
| <b>Top Plug Size</b>             | 7     | <b>Job Pumped Through</b>                   | HEAD |
| <b>Centralizers Used</b>         | YES   | <b>Top Connection Thread</b>                | 8RND |
| <b>Centralizers Quantity</b>     | 10    | <b>Top Connection Size</b>                  | 7    |
| <b>Centralizers Type</b>         | BOW   |   |      |
| <b>Landing Collar Depth (ft)</b> | 6,708 |   |      |

# Cementing Treatment



## CIRCULATION PRIOR TO JOB

|                                      |      |                                      |    |
|--------------------------------------|------|--------------------------------------|----|
| Well Circulated By                   | RIG  | PV Mud Out                           | 12 |
| Circulation Prior to Job             | YES  | YP Mud In                            | 5  |
| Circulation Time (min)               | 1.0  | YP Mud Out                           | 5  |
| Circulation Rate (bpm)               | 6.2  | Solids Present at End of Circulation | No |
| Circulation Volume (bbls)            | 370  | 10 sec SGS                           | 4  |
| Lost Circulation Prior to Cement Job | No   | 10 min SGS                           | 8  |
| Mud Density In (ppg)                 | 10.2 | Flare Prior to/during the Cement Job | No |
| Mud Density Out (ppg)                | 10.2 | Gas Present                          | No |
| PV Mud In                            | 12   |                                      |    |

## TEMPERATURE

|                            |    |                                |     |
|----------------------------|----|--------------------------------|-----|
| Ambient Temperature (°F)   | 50 | Slurry Cement Temperature (°F) | 58  |
| Mix Water Temperature (°F) | 54 | Flow Line Temperature (°F)     | 112 |

## 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       |                  |                    | 0.00                      |             |          |             | 20.0000    |
| Lead Slurry                | BJCem I100.3.01C       | 12.5000       | 2.0735           | 11.83              | 600.00                    | 4,400.00    | 380      | 791.0000    | 140.8000   |
| Tail Slurry                | BJCem I100.6.01C       | 15.8000       | 1.1550           | 4.98               | 5,000.00                  | 1,750.00    | 280      | 325.0000    | 57.9000    |
| Displacement Final         | Water                  | 8.3300        |                  |                    | 0.00                      |             |          | 0.0000      | 264.1000   |

# Cementing Treatment



| Fluid Type                 | Fluid Name             | Component                         | Concentration | UOM  |
|----------------------------|------------------------|-----------------------------------|---------------|------|
| Spacer / Pre Flush / Flush | IntegraGuard EZ Spacer | GELLANT WATER, GW-86              | 0.8000        | PPB  |
| Spacer / Pre Flush / Flush | IntegraGuard EZ Spacer | SAND, S-8, Silica Flour, 200 Mesh | 179.6000      | PPB  |
| Spacer / Pre Flush / Flush | IntegraGuard EZ Spacer | RETARDER, SR-20                   | 1.0200        | PPB  |
| Spacer / Pre Flush / Flush | IntegraGuard EZ Spacer | Spacer Surfactant, SS-247         | 0.5000        | GPB  |
| 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                   | 0.4000        | BWOB |
| Lead Slurry                | BJCem I100.3.01C       | CEMENT, ASTM TYPE III             | 100.0000      | PCT  |
| Lead Slurry                | BJCem I100.3.01C       | FLUID LOSS, FL-24                 | 0.3000        | BWOB |
| Tail Slurry                | BJCem I100.6.01C       | BONDING AGENT, BA-60              | 0.2000        | BWOB |
| Tail Slurry                | BJCem I100.6.01C       | CEMENT, CLASS G                   | 100.0000      | PCT  |
| Tail Slurry                | BJCem I100.6.01C       | RETARDER, R-6                     | 0.1000        | BWOB |
| Tail Slurry                | BJCem I100.6.01C       | DISPERSANT, CD-31                 | 0.2000        | BWOB |
| Tail Slurry                | BJCem I100.6.01C       | FLUID LOSS, FL-24                 | 0.2000        | BWOB |
| Tail Slurry                | BJCem I100.6.01C       | Foam Preventer, FP-25             | 0.3000        | BWOB |

# Cementing Treatment



## DISPLACEMENT AND END OF JOB SUMMARY

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|                                       |       |                                    |        |
|---------------------------------------|-------|------------------------------------|--------|
| Displaced By                          | BJ    | Amount of Cement Returned/Reversed | 20     |
| Calculated Displacement Volume (bbls) | 264.1 | Method Used to Verify Returns      | Visual |
| Actual Displacement Volume (bbls)     | 264.1 | Amount of Spacer to Surface        | 30     |
| Did Float Hold?                       | Yes   | Pressure Left on Casing (psi)      | 0      |
| Bump Plug                             | Yes   | Amount Bled Back After Job         | 2      |
| Bump Plug Pressure (psi)              | 2481  | Total Volume Pumped (bbls)         | 492    |
| Were Returns Planned at Surface       | No    | Top Out Cement Spotted             | No     |
| Cement returns During Job             | Yes   | Lost Circulation During Cement Job | No     |

## COMMENTS

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### Treatment Report

Pumped 10 Bbls Fresh Water Spacer Per Customer Request

## EVENT LOG

Service Line

Cementing

Client

HighPoint Operating Corporation

District

Cheyenne, WY



Quotes: QUO-11269-T7T6X8  
Plans: ORD-06406-G9C5J3  
Executions: EXC-06406-G9C5J302

| Seq. | Well                                   | Job Type     | BJ Sup.         | Start Dt./Time   | End Dt./Time     | Category     | Event                    | Density<br>(ppg) | Pump<br>Rate (bpm) | Pump<br>Vol(bbls) | Pipe<br>Pressure(psi) | Comments                                 |
|------|--|--------------|-----------------|------------------|------------------|--------------|--------------------------|------------------|--------------------|-------------------|-----------------------|--|
| 1    | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate | Anthony Staples | 05/04/2018 18:00 | 05/04/2018 20:00 | Mobilization | Callout                  |                  |                    |                   |                       | Called Out For<br>Intermediate Job       |
| 2    | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/04/2018 20:00 | 05/04/2018 21:51 | Mobilization | Arrive on<br>Location    |                  |                    |                   |                       | Arrived for an RTS of 23:30              |
| 3    | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/04/2018 21:51 | 05/04/2018 21:59 | Operational  | Spot Units               |                  |                    |                   |                       |  |
| 4    | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/04/2018 22:00 | 05/04/2018 22:10 | Operational  | Safety Meeting           |                  |                    |                   |                       | STEACS With Crew,<br>Assigned task       |
| 5    | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/04/2018 22:10 | 05/04/2018 23:00 | Operational  | Rig Up                   |                  |                    |                   |                       | Rigged Up                                |
| 6    | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/04/2018 23:00 | 05/05/2018 01:00 | StandBy      | Other (See<br>comment)   |                  |                    |                   |                       | Waiting for Rig to Finish<br>Circulating |
| 7    | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 01:05 | 05/05/2018 01:12 | Operational  | Safety Meeting           |                  |                    |                   |                       | Pre-Job STEACS                           |
| 8    | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 01:12 | 05/05/2018 01:26 | Operational  | Rig Up                   |                  |                    |                   |                       | Rig Up Head                              |
| 9    | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 01:26 | 05/05/2018 01:30 | Operational  | Prime Up                 | 8.3400           | 2.00               | 2.00              | 348.00                | Prime Up, Load Lines                     |
| 10   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 01:30 | 05/05/2018 01:33 | Operational  | Pressure Test            | 8.3400           |                    |                   | 4,103.00              | Good PSI Test                            |
| 11   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 01:33 | 05/05/2018 01:41 | Operational  | Pump Spacer              | 8.3400           | 5.30               | 8.00              | 502.00                | Fresh Water                              |
| 12   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 01:41 | 05/05/2018 01:48 | Operational  | Pump Spacer              | 11.0000          | 5.30               | 20.00             | 577.00                | 11# Spacer                               |
| 13   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 01:48 | 05/05/2018 02:30 | Operational  | Pump Lead<br>Cement      | 12.5000          | 5.00               | 140.00            | 551.00                | Batch, Weigh, Pump 12.5#<br>Lead         |
| 14   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 02:30 | 05/05/2018 02:46 | Operational  | Pump Tail<br>Cement      | 15.8000          | 4.00               | 57.00             | 323.00                | Batch, Weigh, Pump 15.8#<br>Tail         |
| 15   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 02:46 | 05/05/2018 02:53 | Operational  | Clean Pumps<br>and Lines | 8.3400           |                    |                   |                       | Shut Down, Wash Up                       |
| 16   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 02:53 | 05/05/2018 02:54 | Operational  | Drop Top Plug            | 8.3400           | 5.00               | 1.00              | 100.00                | Plug left Head                           |
| 17   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 02:54 | 05/05/2018 03:11 | Operational  | Pump<br>Displacement     | 8.3400           | 6.20               | 99.00             | 424.00                | 100 Bbls Away                            |
| 18   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 03:11 | 05/05/2018 03:30 | Operational  | Pump<br>Displacement     | 8.3400           | 6.20               | 100.00            | 1,567.00              | 200 Bbls Away                            |
| 19   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 03:30 | 05/05/2018 03:39 | Operational  | Pump<br>Displacement     | 8.3400           | 6.20               | 55.00             | 1,846.00              | 255 Bbls Away Drop Rate<br>to 3.0 Bpm    |
| 20   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 03:39 | 05/05/2018 03:43 | Operational  | Pump<br>Displacement     | 8.3400           | 3.00               | 9.00              | 2,481.00              | 264Bbls Away                             |
| 21   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 03:43 | 05/05/2018 03:43 | Operational  | Land Plug                | 8.3400           | 0.00               | 0.00              | 2,481.00              | Plug Landed, 20Bbls CMT<br>to Surface    |
| 22   | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |                 | 05/05/2018 03:43 | 05/05/2018 03:45 | Operational  | Check Floats             | 8.3400           | 0.00               | 0.00              | 0.00                  | 28Bbls Back Floats Held                  |

## EVENT LOG

Service Line

Cementing

Client

HighPoint Operating Corporation

District

Cheyenne, WY



|    |  |              |  |                  |                 |             |                        |        |  |  |          |                              |
|----|--|--------------|--|------------------|-----------------|-------------|------------------------|--------|--|--|----------|------------------------------|
| 23 | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |  | 05/05/2018 03:48 | 05/05/2018 3:58 | Operational | Other (See<br>comment) | 8.3400 |  |  | 2,049.00 | Casing Test                  |
| 24 | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |  | 05/05/2018 3:58  | 05/05/2018 3:59 | Operational | Other (See<br>comment) | 8.3400 |  |  | 2,125.00 | Bleed Off Casing Test        |
| 25 | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |  | 05/05/2018 4:00  | 05/05/2018 4:05 | Operational | Safety Meeting         | 8.3400 |  |  | 0.00     | Rig Down STEACS With<br>Crew |
| 26 | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |  | 05/05/2018 4:05  | 05/05/2018 4:45 | Operational | Rig Down               | 0.0000 |  |  | 0.00     | Rig Down                     |
| 27 | Anschutz Equus Farms<br>4-62-33-6457CN | Intermediate |  | 05/05/2018 5:00  |                 | Operational | Leave Location         | 0.0000 |  |  | 0.00     | Leave Location               |



**JobMaster Program Version 4.02C1**  
**Job Number: 5205**  
**Customer: BBC**  
**Well Name: Anschutz Equus Farms 4-62-33-6457 CN**

