



Bonanza Creek Energy

North Platte F21-J24-28HNB (05-123-47011)

Production

9/19/2018

Quote #:

| Execution #:



Bonanza Creek Energy

Attention: Mr. Adam Conry | (303) 883.3351 | AConry@bonanzacrk.com

Bonanza Creek Energy | 410 17th St Suite 1400 | Denver, CO. 80202

Dear Mr. Adam Conry,

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) 256-0306 | Jason.Creel@bjservices.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

Cementing Treatment



| | | | |
|--------------------------|----------------------|-----------------------|----------------------------|
| Start Date | 9/19/2018 | Well | NORTH PLATTE F21-J24-28HNB |
| End Date | 9/19/2018 | API# | 05-123-47011 |
| Client | BONANZA CREEK ENERGY | County | WELD |
| Client Field Rep. | Sam | State/Province | CO |
| Service Sup. | Roger Acuna | Formation | NIOBRARA |
| District | Cheyenne, WY | Rig | Xtreme 19 |
| Type of Job | Long String | Project ID | PRJ1010797 |
| Execution ID | EXC-11077-K4Z1G102 | | |

WELL GEOMETRY

| Type | ID (in) | OD (in) | Wt. (lb/ft) | MD (ft) | TVD (ft) | Excess(%) |
|-----------------|---------|---------|-------------|-----------|----------|-----------|
| Previous Casing | 8.92 | 9.63 | 36.00 | 1,602.00 | 1,602.00 | |
| Open Hole | 8.50 | 0.00 | 0.00 | 11,537.00 | 6,329.00 | 12.50 |
| Casing | 4.89 | 5.50 | 17.00 | 11,527.00 | 6,329.00 | |

Shoe Length (ft): 42.00

HARDWARE

| | | | |
|----------------------------------|--------|---|--------------|
| Top Plug Used? | Yes | Tool Type | Float Collar |
| Top Plug Provided By | Non BJ | Tool Depth (ft) | 11,485.00 |
| Top Plug Size | 5.500 | Max Casing Pressure - Rated (psi) | 11,080.00 |
| Centralizers Used | Yes | Max Casing Pressure - Operated (psi) | 3,200.00 |
| Centralizers Quantity | 108.00 | Pipe Movement | None |
| Centralizers Type | Rigid | Job Pumped Through | Manifold |
| Landing Collar Depth (ft) | 11,485 | Top Connection Thread | LTC |
| | | Top Connection Size | 5.5 |

CIRCULATION PRIOR TO JOB

| | | | |
|----------------------------------|----------|---|------|
| Well Circulated By | Rig | YP Mud In | 7 |
| Circulation Prior to Job | Yes | YP Mud Out | 7 |
| Circulation Time (min) | 180.00 | Solids Present at End of Circulation | No |
| Circulation Rate (bpm) | 9.00 | 10 sec SGS | 3.00 |
| Circulation Volume (bbls) | 1,620.00 | 10 min SGS | 5.00 |
| Mud Density In (ppg) | 9.50 | 30 min SGS | 6.00 |
| Mud Density Out (ppg) | 9.50 | Flare Prior to/during the Cement Job | No |
| PV Mud In | 11 | Gas Present | Yes |
| PV Mud Out | 11 | Gas Units | 7800 |

Cementing Treatment



TEMPERATURE

| | | | |
|----------------------------|-------|--------------------------------|--------|
| Ambient Temperature (°F) | 65.00 | Slurry Cement Temperature (°F) | 65.00 |
| Mix Water Temperature (°F) | 65.00 | Flow Line Temperature (°F) | 126.00 |

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 | 12.0000 | | | 0.00 | | | | 60.0000 |
| Lead Slurry | BJCem P100.3.01C | 12.5000 | 2.1538 | 12.23 | 0.00 | 4199 | 605 | 1,308.0000 | 232.8000 |
| Tail Slurry | BJCem P50.6.02C | 13.5000 | 1.4772 | 7.45 | 4199.00 | 7328 | 1142 | 1,686.0000 | 300.2000 |
| Displacement 2 | Retarded Water | 8.3337 | | | 11,244.00 | 0 | 0 | 0.0000 | 20.0000 |
| Displacement Final | Displacement Final (Water) | 8.3308 | | | 0.00 | | | 0.0000 | 246.5000 |

Cementing Treatment



| Fluid Type | Fluid Name | Component | Concentration | UOM |
|----------------------------|----------------------------|-----------------------------------|---------------|--------|
| Spacer / Pre Flush / Flush | IntegraGuard EZ Spacer | SAND, S-8, Silica Flour, 200 Mesh | 242.2100 | PPB |
| Spacer / Pre Flush / Flush | IntegraGuard EZ Spacer | EXTENDER, BENTONITE | 5.0000 | PPB |
| Spacer / Pre Flush / Flush | IntegraGuard EZ Spacer | SPACER SURFACTANT, SS-247 | 0.5000 | GPB |
| Spacer / Pre Flush / Flush | IntegraGuard EZ Spacer | SPACER SURFACTANT, SS-267 | 0.5000 | GPB |
| Spacer / Pre Flush / Flush | IntegraGuard EZ Spacer | GELLANT WATER, GW-86 | 1.0000 | PPB |
| Lead Slurry | BJCem P100.3.01C | RETARDER, SR-20 | 0.4000 | BWOB |
| Lead Slurry | BJCem P100.3.01C | FLUID LOSS, FL-24 | 0.3000 | BWOB |
| Lead Slurry | BJCem P100.3.01C | EXTENDER, BENTONITE | 4.0000 | BWOB |
| Lead Slurry | BJCem P100.3.01C | CEMENT, ASTM TYPE III | 100.0000 | PCT |
| Lead Slurry | BJCem P100.3.01C | FOAM PREVENTER, FP-25 | 0.3000 | BWOB |
| Lead Slurry | BJCem P100.3.01C | GELLANT WATER, GW-86 | 0.2000 | BWOB |
| Lead Slurry | BJCem P100.3.01C | IntegraSeal CELLO | 0.1300 | LBS/SK |
| Lead Slurry | BJCem P100.3.01C | BONDING AGENT, BA-60 | 0.4000 | BWOB |
| Tail Slurry | BJCem P50.6.02C | GELLANT WATER, GW-86 | 0.1000 | BWOB |
| Tail Slurry | BJCem P50.6.02C | CEMENT, CLASS G | 50.0000 | PCT |
| Tail Slurry | BJCem P50.6.02C | RETARDER, SR-20 | 0.0700 | BWOB |
| Tail Slurry | BJCem P50.6.02C | EXTENDER, BENTONITE | 2.0000 | BWOB |
| Tail Slurry | BJCem P50.6.02C | FOAM PREVENTER, FP-25 | 0.3000 | BWOB |
| Tail Slurry | BJCem P50.6.02C | Flyash (Rockies) | 50.0000 | PCT |
| Tail Slurry | BJCem P50.6.02C | FLUID LOSS, FL-66 | 0.2000 | BWOB |
| Displacement 2 | Retarded Water | RETARDER, R-8L | 0.5000 | GPB |
| Displacement 2 | Retarded Water | BIOCIDE, BIOC11139W | 0.0100 | GPB |
| Displacement Final | Displacement Final (Water) | BIOCIDE, BIOC11139W | 0.0100 | GPB |

DISPLACEMENT AND END OF JOB SUMMARY

| | | | |
|---------------------------------------|----------|------------------------------------|--------|
| Displaced By | BJ | Amount of Cement Returned/Reversed | 50.00 |
| Calculated Displacement Volume (bbls) | 266.50 | Method Used to Verify Returns | Visual |
| Actual Displacement Volume (bbls) | 266.50 | Amount of Spacer to Surface | 60.00 |
| Did Float Hold? | Yes | Pressure Left on Casing (psi) | 0.00 |
| Bump Plug | Yes | Amount Bled Back After Job | 3.00 |
| Bump Plug Pressure (psi) | 3,200.00 | Total Volume Pumped (bbls) | 862.50 |
| Were Returns Planned at Surface | Yes | Top Out Cement Spotted | No |
| Cement returns During Job | Full | Lost Circulation During Cement Job | No |

EVENT LOG



Customer Name: BONANZA CREEK ENERGY

Well Name: NORTH PLATTE F21-J24-28HNB

Job Type: Long String

Quote ID: QUO-18543-C7R0G8

Plan ID: ORD-11077-K4Z1G1

Execution ID: EXC-11077-K4Z1G102

District: Cheyenne, WY

BJ Supervisor: Roger Acuna

| Seq. | Start Dt./Time | Event | Density (ppg) | Pump Rate (bpm) | Pump Vol (bbls) | Pipe Pressure (psi) | Comments |
|------|------------------|--------------------|---------------|-----------------|-----------------|---------------------|--|
| 1 | 09/19/2018 00:00 | Callout | | | | | CALLED OUT RTS 06:30 |
| 2 | 09/19/2018 02:00 | Safety Meeting | | | | | JOURNEY MANAGEMENT |
| 3 | 09/19/2018 02:15 | Leave Location | | | | | DEPART CHEYENNE WY CAMP |
| 4 | 09/19/2018 04:15 | Arrive on Location | | | | | ARRIVE TO LOCATION |
| 5 | 09/19/2018 04:15 | Safety Meeting | | | | | STEACS RIG UP |
| 6 | 09/19/2018 04:30 | Rig Up | | | | | RIG UP IRON AND HOSES |
| 7 | 09/19/2018 06:30 | Customer | 9.5000 | 9.00 | 1,620.00 | 600.00 | WAITING ON RIG TO FINISH RUNNING CASING AND CIRCULATE THE WELL |
| 8 | 09/19/2018 09:15 | Safety Meeting | | | | | PRE JOB SAFETY MEETING TO DISCUSS JOB PROCEDURES |
| 9 | 09/19/2018 09:24 | Start Pumping | 8.3300 | 3.00 | 3.00 | 200.00 | FILL LINES 3BBLS FRESH WATER |
| 10 | 09/19/2018 09:25 | Pressure Test | | | | 5,000.00 | TEST LINES |
| 11 | 09/19/2018 09:38 | Pump Spacer | 12.0000 | 3.00 | 20.00 | 70.00 | PUMP 20BBLS INTEGRAGUARD EZ SPACER @ 12PPG WITH SURFACTANTS |
| 12 | 09/19/2018 09:44 | Pump Spacer | 11.5000 | 3.00 | 20.00 | 70.00 | PUMP 20BBLS INTEGRAGUARD EZ SPACER @ 11.5PPG WITH SURFACTANTS |
| 13 | 09/19/2018 09:51 | Pump Spacer | 11.0000 | 3.00 | 20.00 | 70.00 | PUMP 20BBLS INTEGRAGUARD EZ SPACER @ 11PPG WITH SURFACTANTS |
| 14 | 09/19/2018 09:58 | Pump Lead Cement | 12.5000 | 6.00 | 233.00 | 200.00 | PUMP 233BBLS BJCEM P100.3.01C @ 12.5PPG (605SKS 2.15YLD 12.23GPS) CALCULATED TO SURFACE |
| 15 | 09/19/2018 10:38 | Pump Tail Cement | 13.5000 | 6.00 | 300.00 | 200.00 | PUMP 300BBLS BJCEM P50.6.02C @ 13.5PPG (1142SKS 1.48YLD 7.45GPS) CALCULATED TOP |
| 16 | 09/19/2018 11:34 | End Pumping | | | | | SHUTDOWN, WASH PUMPS AND LINES TO THE PIT |
| 17 | 09/19/2018 11:41 | Drop Top Plug | | | | | DROP DART PLUG |

EVENT LOG



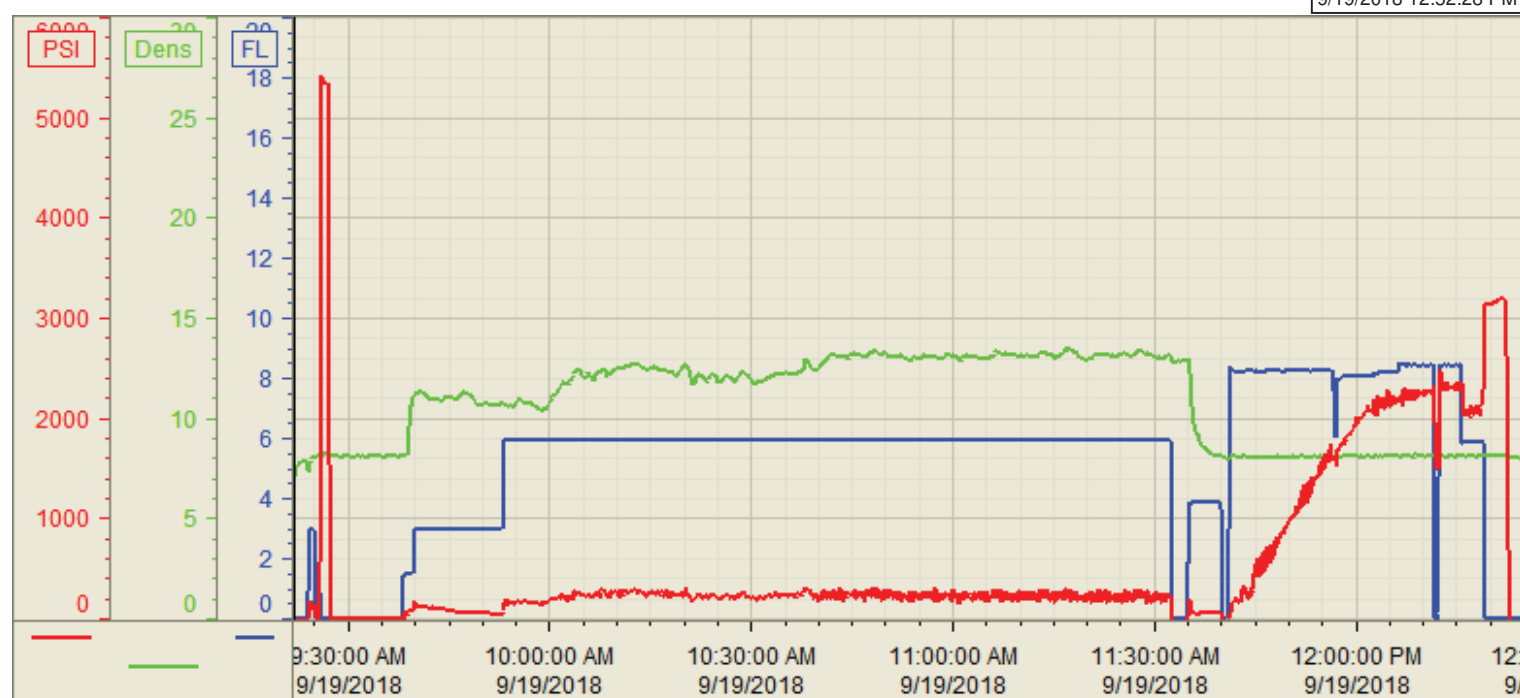
| | | | | | | | |
|----|---------------------|---------------------------|--------|------|--------|----------|---|
| 18 | 09/19/2018 11:41 | Pump Displacement | 8.3300 | 8.00 | 240.00 | 2,700.00 | PUMP FRESH WATER DISPLACEMENT |
| 19 | 09/19/2018 12:06 | Spacer Back to Surface | | | | | SPACER TO SURFACE @ 155BBLS INTO DISPLACEMENT |
| 20 | 09/19/2018 12:11 | Cement Back to Surface | | | | | CEMENT TO SURFACE @ 215BBLS INTO DISPLACEMENT |
| 21 | 09/19/2018 12:15 | Pump Displacement | 8.3300 | 5.00 | 26.50 | 2,000.00 | SLOW RATE TO LAND PLUG |
| 22 | 09/19/2018 12:18 | Land Plug | | | | 3,200.00 | LAND PLUG 1000PSI OVER FINAL CIRCULATING PRESSURE |
| 23 | 09/19/2018 12:23 | Check Floats | | | | | CHECK FLOATS, FLOATS HELD GETTING 3BBLS BACK TO THE PUMP |
| 24 | 09/19/2018 12:24 | End Pumping | | | | | END JOB |
| 25 | 09/19/2018 12:24 | Safety Meeting | | | | | STEACS RIG DOWN |
| 26 | 09/19/2018 12:45 | Rig Down | | | | | RIG DOWN IRON AND HOSES |
| 27 | 09/19/2018 13:45 | Safety Meeting | | | | | JOURNEY MANGEMENT |
| 28 | 09/19/2018 14:00 | Leave Location | | | | | DEPART LOCATION |

Customer: bonanza creek
Well Number: F21-J24-28HNB
Lease Info: north platte



Print Date/Time

9/19/2018 12:52:28 PM



| | Name | Y value | X value/time stamp | Tag name Y |
|---|--------------------|---------|----------------------|----------------------------------|
| 1 | DS - Press (PSI) | -17.4 | 9/19/2018 9:21:57 AM | Cementer\DS_DISCHARGE_PRESS_DIAL |
| 2 | DH Density (PPG) | 7.05 | 9/19/2018 9:21:59 AM | Cementer\DENSITY2_ACTUAL_RATE |
| 3 | Combined pump rate | 0.00 | 9/19/2018 9:21:59 AM | Cementer\Flow_Combined |
| 4 | | | | |
| 5 | | | | |

Source: Control1 12:52:29 PM