



Bonanza Creek Energy

Production Post Job Report

Mustang D14-26-25XRLNB

S:26 T:4N R:63W Weld CO

Quote #:

Execution #:



Bonanza Creek Energy

Attention: Mr. Joel Dill | (702) 633-5871 | JDill@Bonanzacrk.com

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

Dear Mr. Joel Dill,

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

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 | 12-18-2017 | Well | Mustang D14-26-25XRLNB |
| End Date | 12-18-2017 | County | WELD |
| Client | BONANZA CREEK ENERGY | State/Province | CO |
| Service Supervisor | Albert Snyder | API | 05-123-44700 |
| Field Ticket No. | #1647 | Rig | Xtreme 19 |
| District | Cheyenne, WY | Type of Job | Long String |

WELL GEOMETRY

| Type | ID (in) | OD (in) | Wt. (lb/ft) | MD (ft) | TVD (ft) | Excess(%) | Grade | Thread |
|-----------------|---------|---------|-------------|-----------|----------|-----------|-------|--------|
| Previous Casing | 8.92 | 9.63 | 36.00 | 1,700.00 | 1,700.00 | | | |
| Open Hole | 8.50 | | | 16,512.00 | 6,454.00 | 10.00 | | |
| Casing | 4.89 | 5.50 | 17.00 | 16,512.00 | 6,454.00 | | | |

Shoe Length (ft.): 63

HARDWARE

| | | | |
|-----------------------------------|-----------------------|---|--------------------|
| Bottom Plug Used? | No | Tool Type | Frac Sleeve |
| Top Plug Used? | yes | Tool Depth (ft.) | Various |
| Top Plug Provided By | 3 rd party | Max Casing Pressure - Rated (psi) | 5320 |
| Top Plug Size | 5.5" | Max Casing Pressure - Operated (psi) | 2800 |
| Centralizers Used | No | Pipe Movement | No |
| Landing Collar Depth (ft.) | 16,449 | Job Pumped Through | 5.5 Plug Container |
| | | Top Connection Thread | 8rd |
| | | Top Connection Size | 5.5 |

Cementing Treatment



| Fluid Type | Fluid Name | Component | Concentration | UOM |
|----------------------------|----------------|---------------------------------------|---------------|--------|
| Spacer / Pre Flush / Flush | CD Spacer | RETARDER, HIGH TEMP, R-31 (BJS Only) | 0.51 | PPB |
| Spacer / Pre Flush / Flush | CD Spacer | Spacer Surfactant, SS-247, (BJS Only) | 0.50 | GPB |
| Spacer / Pre Flush / Flush | CD Spacer | SAND, S-8, Silica Flour, 200 Mesh | 208.53 | PPB |
| Spacer / Pre Flush / Flush | CD Spacer | SURFACTANT, SS-267, (BJS ONLY) | 0.50 | GPB |
| Spacer / Pre Flush / Flush | CD Spacer | EXTENDER, BENTONITE | 5.00 | PPB |
| Spacer / Pre Flush / Flush | CD Spacer | GELLANT WATER, GW-86 | 0.90 | PPB |
| Lead Slurry | P100-X2 (Lead) | FLUID LOSS, FL-24, (BJS Only) | 0.30 | BWOB |
| Lead Slurry | P100-X2 (Lead) | IntegraSeal CELLO | 0.13 | LBS/SK |
| Lead Slurry | P100-X2 (Lead) | CEMENT, ASTM TYPE III | 100.00 | PCT |
| Lead Slurry | P100-X2 (Lead) | RETARDER, HIGH TEMP, R-31 (BJS Only) | 0.17 | BWOB |
| Lead Slurry | P100-X2 (Lead) | FP-25, Dry Foam Preventer (BJS Only) | 0.30 | BWOB |
| Lead Slurry | P100-X2 (Lead) | GELLANT WATER, GW-86 | 0.05 | BWOB |
| Lead Slurry | P100-X2 (Lead) | BONDING AGENT, BA-60 | 0.40 | BWOB |
| Tail Slurry | P50-X1 (Tail) | GELLANT WATER, GW-86 | 0.10 | BWOB |
| Tail Slurry | P50-X1 (Tail) | EXTENDER, BENTONITE | 2.00 | BWOB |
| Tail Slurry | P50-X1 (Tail) | AR-20 | 0.10 | BWOB |
| Tail Slurry | P50-X1 (Tail) | CEMENT, CLASS G | 50.00 | PCT |
| Tail Slurry | P50-X1 (Tail) | Flyash (Rockies) | 50.00 | PCT |
| Tail Slurry | P50-X1 (Tail) | FP-25, Dry Foam Preventer (BJS Only) | 0.30 | BWOB |
| Tail Slurry | P50-X1 (Tail) | FLUID LOSS, FL-66 | 0.20 | BWOB |
| Displacement 1 | GW-86 Pill | AR-61 | 0.20 | BWOB |
| Displacement 1 | GW-86 Pill | GELLANT WATER, GW-86 | 2.50 | PPB |
| Displacement 2 | Retarded Water | AR-61 | 0.20 | BWOB |

Cementing Treatment



TREATMENT SUMMARY

| Time | Fluid | Rate (bpm) | Fluid Vol. (bbls) | Pipe Pressure (psi) | Annulus Pressure (psi) | Comments |
|------|----------------------------|------------|-------------------|---------------------|------------------------|----------|
| | CD Spacer | 5.00 | 40.00 | | | |
| | P100-X2 (Lead) | 6.00 | 229.60 | | | |
| | P50-X1 (Tail) | 6.00 | 517.30 | | | |
| | GW-86 Pill | 0.00 | 10.00 | | | |
| | Retarded Water | 5.00 | 80.00 | | | |
| | Displacement Final (Water) | 8.00 | 292.80 | | | |

DISPLACEMENT AND END OF JOB SUMMARY

| | | | |
|--|-------------|---|---------|
| Displaced By | BJ Services | Amount of Cement Returned/Reversed | 75 |
| Calculated Displacement Volume (bbls) | 383 | Method Used to Verify Returns | Visual |
| Actual Displacement Volume (bbls) | 386 | Amount of Spacer to Surface | 40 |
| Did Float Hold? | Yes | Pressure Left on Casing (psi) | 0 |
| Bump Plug | No | Amount Bled Back After Job | 75 bbls |
| Bump Plug Pressure (psi) | 2100 | Total Volume Pumped (bbls) | 1166 |
| Were Returns Planned at Surface | yes | Top Out Cement Spotted | No |
| Cement returns During Job | yes | Lost Circulation During Cement Job | No |

CEMENT PLUG

| | | | |
|-------------------------------|----|--------------------------|----|
| Bottom of Cement Plug? | No | Wiper Balls Used? | No |
| | | Plug Catcher | No |

Cementing Treatment



SQUEEZE

Operators Max SQ Pressure (psi) 2800 psi



Customer Name Bonanaza Creek
 Well Name mustang d14-21-25
 Job Type Long String

District Cheyenne
 Supervisor Albert Snyder
 Engineer

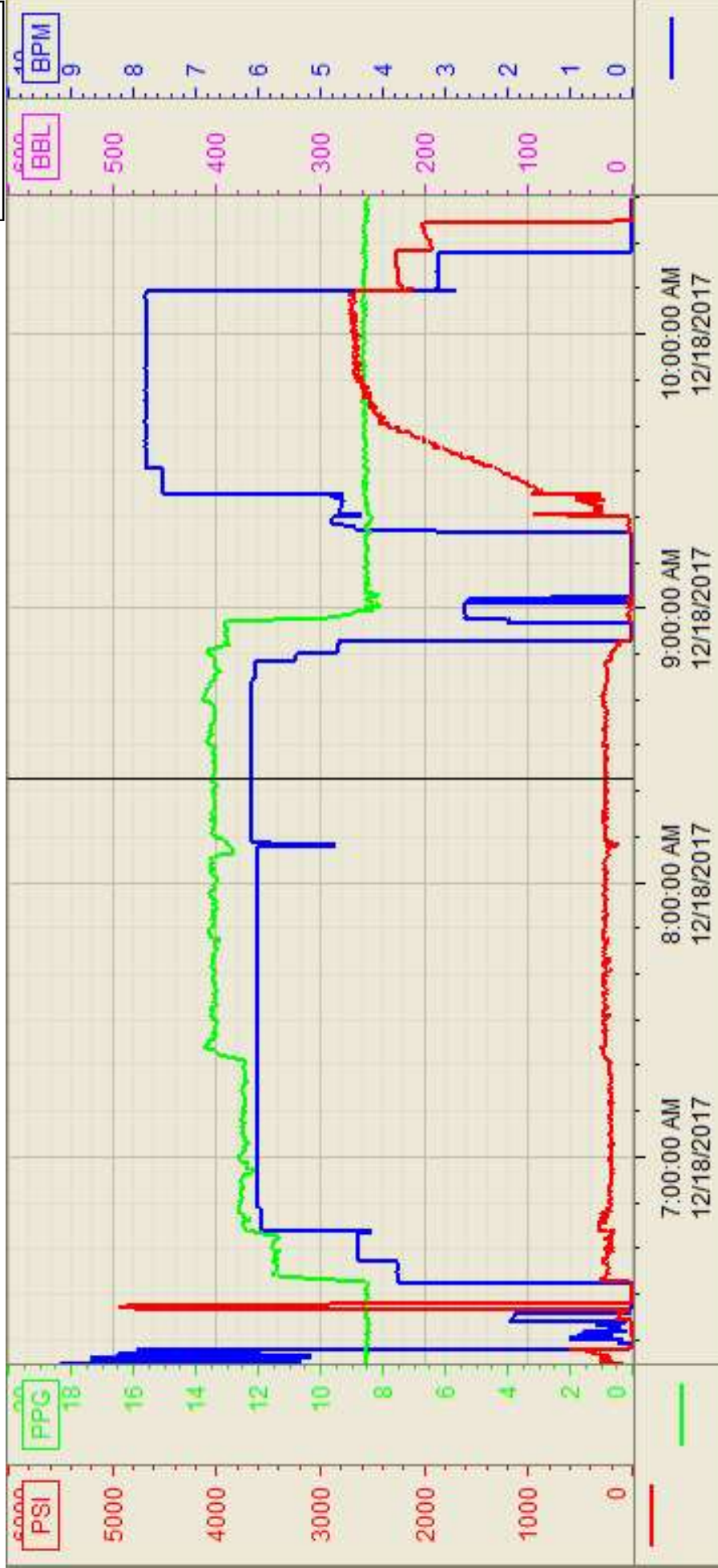
| Seq No. | Start Date/Time | Category | Event | Equipment | Event ID | Density (lb/gal) | Pump Rate (bpm) | Pump Vol (bbls) | Pipe Pressure (psi) | Comments |
|---------|------------------|--------------|-----------------------|-----------|----------|------------------|-----------------|-----------------|---------------------|--|
| 1 | 12/17/2017 23:00 | Mobilization | Called out | | | | | | | calledout at 10:30 |
| 2 | 12/18/2017 1:00 | Mobilization | Steacs journey | | | | | | | discussed trip to kersey |
| 3 | 12/18/2017 4:00 | Mobilization | requested on location | | | | | | | request on location at 4:00 am |
| 4 | 12/18/2017 2:00 | Mobilization | Arrived on location | | | | | | | arrived at 2:00 am early |
| 5 | 12/18/2017 2:30 | Mobilization | Steacs briefing | | | | | | | discussed rigging up |
| 6 | 12/18/2017 2:45 | Mobilization | rig up | | 50 | | | | | used teamwork |
| 7 | 12/18/2017 3:00 | StandBy | Wait on rig | | | | | | | waiting on rig to circulate |
| 8 | 12/18/2017 6:30 | Mobilization | Steacs Briefing | | | | | | | Discussed entire job |
| 9 | 12/18/2017 6:45 | Operational | Fill lines | | | 8.33 | 1 | 3 | | used water |
| 10 | 12/18/2017 6:49 | Operational | Test Lines | | | 8.33 | 1 | 1 | 5000 | lines tested good |
| 11 | 12/18/2017 6:50 | Operational | Pump Spacer | | 56 | 11.5 | 5 | 40 | 900 | pumped spacer at 11.5# |
| 12 | 12/18/2017 6:56 | Operational | pump lead cement | | 58 | 12.5 | 6 | 229 | 350 | mix and pump 622 sks of p100-x2 at 12.5# with 2.07 yield 11.84 wr |
| 13 | 12/18/2017 7:38 | Operational | pump Tail cement | | 60 | 13.5 | 6 | 515 | 280 | mixed and pumped 1967 sks @ 13.5# of p50X1 with 1.47 yield 7.45 wr |
| 14 | 12/18/2017 9:25 | Operational | drop plug | | | | | | | used their 3 rd party plug |
| 15 | 12/18/2017 9:27 | Operational | wash to the pit | | | | | | | washed to the pit |
| 16 | 12/18/2017 9:30 | Operational | pump gel pill | | | 8.7 | 8 | 10 | 1450 | gell pill with ar 1 |
| 17 | 12/18/2017 9:33 | Operational | Displace well | | | 8.33 | 8 | 50 | 1450 | Pumped water with AR! |
| 18 | 12/18/2017 9:39 | Operational | Displace well | | | 8.33 | 8 | 100 | 2300 | Pumped water with AR! |
| 19 | 12/18/2017 9:47 | Operational | Displace well | | | 8.33 | 8 | 150 | 2300 | Pumped water with AR! |
| 20 | 12/18/2017 9:54 | Operational | Displace well | | | 8.33 | 8 | 200 | 2400 | Pumped water with AR! |
| 21 | 12/18/2017 10:01 | Operational | Displace well | | | 8.33 | 8 | 270 | 2300 | good circulation got bac 40 bbls of spacer to the surface |
| 22 | 12/18/2017 10:08 | Operational | Displace well | | | 8.33 | 8 | 310 | 2400 | Pumped water with AR! Got cement back to surface |
| 23 | 12/18/2017 10:14 | Operational | Displace well | | | 8.33 | 3 | 350 | 2600 | Pumped water with AR! |
| 24 | 12/18/2017 10:32 | Operational | Displace well | | | 8.33 | 3 | 383 | 2600 | pump calculated displacement |
| 25 | 12/18/2017 10:33 | Operational | Displace well | | | 8.33 | 3 | 385 | 2100 | pumped over as per co man did not land the plug |
| 26 | 12/18/2017 10:41 | Operational | Check float | | | | | | | float is holding flowed back 2.5 bbls |
| 27 | 12/18/2017 11:00 | Mobilization | Steacs Briefing | | | | | | | discussed rigging down |
| 28 | 12/18/2017 11:20 | Mobilization | rig down | | 73 | | | | | used teamwork |
| 29 | 12/18/2017 12:06 | Mobilization | after action review | | | | | | | discussed how the job went |
| 30 | 12/18/2017 12:20 | Mobilization | Steacs journey | | | | | | | discussed journey home |
| 31 | 12/18/2017 12:30 | Mobilization | Depart location | | | | | | | left and traveled a convoy |



Print Date/Time

12/18/2017 11:05:54 AM

Customer: BONANAZA CREEK
 Well Number: D14-26-25XBLNB
 Lease Info: MUSTANG



| Name | Y value | X value/time stamp | Tag name Y |
|----------------------|----------|--------------------------|---------------------------------|
| 1 DS - Press (PSI) | 268.0 | 12/18/2017 8:22:43 AM | CementedDS_DISCHARGE_PRESS_DIAL |
| 2 DH - Density (PPG) | 13.47 l. | 12/18/2017 8:22:37 AM l. | CementedDENSITY2_ACTUAL_RATE |
| 3 Combined Rate | 6.08 | 12/18/2017 8:22:31 AM | CementedFlow_Combined |
| 4 | | | |
| 5 | | | |

Source: Control1 11:05:48 AM