



Bonanza Creek Energy

Wetco Farms K21-4-9MRLNC

API # 05-123-47805

Surface

10/21/2018

Quote #: 21338

Execution #: 12327



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,
Gage Putnam
Field Engineer I | (307) 887-4243 | Gage.Putnam@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 | 10/21/2018 | Well | WETCO FARMS K21-4-9MRLNC |
| End Date | 10/21/2018 | API# | 05-123-47805 |
| Client | Bonanza Creek Energy | County | WELD |
| Service Sup. | Travis Tolman | State/Province | CO |
| District | Cheyenne, WY | Rig | Akita 520 |
| Type of Job | Surface | Project ID | PRJ1011931 |
| Execution ID | EXC-12327-C3H6W202 | | |

WELL GEOMETRY

| Type | ID (in) | OD (in) | Wt. (lb/ft) | MD (ft) | TVD (ft) | Excess(%) |
|-----------|---------|---------|-------------|----------|----------|-----------|
| Open Hole | 13.50 | 0.00 | 0.00 | 1,610.00 | 1,550.00 | 30.00 |
| Casing | 8.92 | 9.63 | 36.00 | 1,599.00 | 1,550.00 | |

Shoe Length (ft): 42.00

HARDWARE

| | | | |
|----------------------------------|--------|---|----------|
| Top Plug Used? | Yes | Max Casing Pressure - Rated (psi) | 3,520.00 |
| Top Plug Provided By | Non BJ | Max Casing Pressure - Operated (psi) | 2,000.00 |
| Top Plug Size | 9.625 | Pipe Movement | None |
| Centralizers Used | Yes | Job Pumped Through | Manifold |
| Centralizers Quantity | 15.00 | Top Connection Thread | 8RND |
| Centralizers Type | Bow | Top Connection Size | 9.625 |
| Landing Collar Depth (ft) | 1,557 | | |

CIRCULATION PRIOR TO JOB

| | | | |
|---|-------|---|------|
| Well Circulated By | Rig | Solids Present at End of Circulation | No |
| Circulation Prior to Job | Yes | 10 sec SGS | 1.00 |
| Circulation Time (min) | 75.00 | 10 min SGS | 2.00 |
| Lost Circulation Prior to Cement Job | No | 30 min SGS | 3.00 |
| Mud Density In (ppg) | 8.60 | Flare Prior to/during the Cement Job | No |
| PV Mud In | 1 | Gas Present | No |
| YP Mud In | 3 | | |

TEMPERATURE

| | | | |
|---------------------------------|-------|-----------------------------------|-------|
| Ambient Temperature (°F) | 46.00 | Mix Water Temperature (°F) | 55.00 |
|---------------------------------|-------|-----------------------------------|-------|

Cementing Treatment



BJ FLUID DETAILS

| Fluid Type | Fluid Name | Density (ppg) | Yield (Cu Ft/sk) | H2O Req. (gals/sk) | Length (Ft) | Vol (sk) | Vol (Cu Ft) | Vol (bbls) |
|----------------------------|-------------------|---------------|------------------|--------------------|-------------|----------|-------------|------------|
| Spacer / Pre Flush / Flush | Water (Pre-flush) | 8.3308 | | | | | | 20.0000 |
| Tail Slurry | BJCem S100.3.XC | 14.5000 | 1.3901 | 6.78 | 1550 | 720 | 1,002.0000 | 178.2000 |
| Displacement Final | Water | 8.3300 | | | | | 0.0000 | 120.3000 |

| Fluid Type | Fluid Name | Component | Concentration | UOM |
|-------------|-----------------|------------------------|---------------|---------|
| Tail Slurry | BJCem S100.3.XC | FOAM PREVENTER, FP-13L | 0.0300 | GALS/SK |
| Tail Slurry | BJCem S100.3.XC | CEMENT, ASTM TYPE III | 100.0000 | PCT |

DISPLACEMENT AND END OF JOB SUMMARY

| | | | |
|---------------------------------------|-------------|------------------------------------|--------|
| Displaced By | BJ Services | Amount of Cement Returned/Reversed | 13.00 |
| Calculated Displacement Volume (bbls) | 120.30 | Method Used to Verify Returns | Visual |
| Actual Displacement Volume (bbls) | 120.00 | Amount of Spacer to Surface | 20.00 |
| Did Float Hold? | Yes | Pressure Left on Casing (psi) | 0.00 |
| Bump Plug | Yes | Amount Bled Back After Job | 0.50 |
| Bump Plug Pressure (psi) | 1,515.00 | Total Volume Pumped (bbls) | 292.00 |
| 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: WETCO FARMS K21-4-9MRLNC

Job Type: Surface

Quote ID: QUO-21338-S8F3K7

Plan ID: ORD-12327-C3H6W2

District: Cheyenne, WY

Execution ID: EXC-12327-C3H6W202

BJ Supervisor: Travis Tolman

| Seq. | Start Dt./Time | Event | Density (ppg) | Pump Rate (bpm) | Pump Vol (bbbls) | Pipe Pressure (psi) | Comments |
|------|------------------|---------------------|---------------|-----------------|------------------|---------------------|---|
| 1 | 10/21/2018 12:00 | Callout | | | | | Crew called out for on location of 1800, crew pre-trip equipment |
| 2 | 10/21/2018 14:22 | Leave Location | | | | | Crew ready to head to location |
| 3 | 10/21/2018 16:15 | Arrive on Location | | | | | Arrived on location, pulling drill pipe, met with company man to get numbers, discuss job and safety issues |
| 4 | 10/21/2018 20:30 | Spot Units | | | | | Spot equipment |
| 5 | 10/21/2018 20:35 | Safety Meeting | | | | | Held safety meeting with crew to discuss job, tasks and safety issues |
| 6 | 10/21/2018 20:45 | Rig Up | | | | | Rigged up from equipment to rig floor |
| 7 | 10/21/2018 21:10 | Safety Meeting | | | | | Held safety meeting with company man, rig hands and crew to discuss job and safety |
| 8 | 10/21/2018 21:35 | Start Pumping | 8.3000 | 2.00 | 3.00 | 44.00 | Load pump and lines with fresh water |
| 9 | 10/21/2018 21:37 | Pressure Test | 8.3000 | | | 4,558.00 | Pressure test pump and lines with fresh water |
| 10 | 10/21/2018 21:42 | Pump Spacer | 8.3000 | 3.70 | 17.00 | 95.00 | Pump fresh water with dye |
| 11 | 10/21/2018 21:48 | Pump Lead Cement | 14.5000 | 5.00 | 162.00 | 298.00 | Pump 720sks/178.2bbbls of lead cement at 14.5#-1.39Y-6.78gps |
| 12 | 10/21/2018 22:30 | End Pumping | | | | | Shut down, wash up tub |
| 13 | 10/21/2018 22:39 | Drop Top Plug | | | | | Drop top plug witnessed by company man and BJ rep |
| 14 | 10/21/2018 22:40 | Pump Displacement | 8.3000 | 6.30 | 110.00 | 780.00 | Pump fresh water displacement |
| 15 | 10/21/2018 23:03 | Other (See comment) | 8.3000 | 3.00 | 10.00 | 627.00 | Slowed rate to land plug |
| 16 | 10/21/2018 23:06 | Land Plug | | | | 1,515.00 | Bump plug, got 13bbbls of cement to surface, held pressure for 5min casing test |
| 17 | 10/21/2018 23:11 | Check Floats | | | | | Check float, got .5bbl back, held |
| 18 | 10/21/2018 23:15 | Safety Meeting | | | | | Held safety meeting with crew to discuss rig down and safety |
| 19 | 10/21/2018 23:30 | Rig Down | | | | | Rigged down from rig floor to equipment |
| 20 | 10/22/2018 01:00 | Leave Location | | | | | Crew ready to leave location |



JobMaster Program Version 4.02C1
Job Number: 10531
Customer: Bonanza Creek
Well Name: WETCO Farms K21-4-9MRLNC

