

BJ Cementing Treatment Report

| | | | |
|-----------------------------|--------------|------------------|---------|
| SERVICE SUPERVISOR | Brian Boyd | RIG | True 38 |
| CLIENT FIELD REPRESENTATIVE | Craig | COUNTY | WELD |
| DISTRICT | Cheyenne, WY | STATE / PROVINCE | CO |
| SERVICE | Cementing | | |

WELL GEOMETRY

| TYPE | ID (in) | OD (in) | WEIGHT (lb/ft) | MD (ft) | TVD (ft) | EXCESS (%) |
|-----------|---------|---------|----------------|----------|----------|------------|
| Open Hole | 13.50 | 0.00 | 0.00 | 1,562.00 | 1,562.00 | 25.00 |
| Casing | 8.92 | 9.63 | 36.00 | 1,553.00 | 1,553.00 | |

HARDWARE

| | | | |
|---------------------------|--------|--------------------------------------|--------------|
| Bottom Plug Used? | No | Tool Type | Float Collar |
| Top Plug Used? | Yes | Tool Depth (ft) | 1,515.00 |
| Top Plug Provided By | Non BJ | Max Casing Pressure - Rated (psi) | 3512.00 |
| Top Plug Size | 9.625 | Max Casing Pressure - Operated (psi) | 2012.00 |
| Centralizers Used | Yes | Pipe Movement | None |
| Centralizers Quantity | 17.00 | Job Pumped Through | Manifold |
| Centralizers Type | Bow | Top Connection Thread | LTC |
| Landing Collar Depth (ft) | 1,515 | Top Connection Size | 9.625 |

CIRCULATION PRIOR TO JOB

| | | | |
|--------------------------------------|--------|--|----|
| Well Circulated By | Rig | PV Mud In | 2 |
| Circulation Prior to Job | Yes | YP Mud In | 4 |
| Circulation Time (min) | 45.00 | Solids Present at End of Circulation | No |
| Circulation Rate (bpm) | 7.00 | 10 sec SGS | 1 |
| Circulation Volume (bbls) | 130.00 | 10 min SGS | 1 |
| Lost Circulation Prior to Cement Job | No | Flare Prior to / during the Cement Job | No |
| Mud Density In (ppg) | 9.00 | Gas Present | No |

TEMPERATURE

| | | | |
|----------------------------|-------|--------------------------------|-------|
| Ambient Temperature (°F) | 75.00 | Slurry Cement Temperature (°F) | 73.00 |
| Mix Water Temperature (°F) | 65.00 | Flow Line Temperature (°F) | 84.00 |

Client: Bayswater Exploration & Production, LLC

Well: LEFFLER #K-26-28HC

Well API: 05-123-50040

Start Date: 7/7/2019

End Date: 7/7/2019



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 | Water | 8.3337 | | | 0.00 | | | | 20.0000 |
| Lead Slurry | BJCem S100.03.1C | 12.0000 | 2.5298 | 14.86 | 0.00 | 1,050.00 | 255 | 646.0000 | 114.9000 |
| Tail Slurry | BJCem S100.03.1C | 12.5000 | 2.2255 | 12.59 | 1,050.00 | 500.00 | 145 | 323.0000 | 57.5000 |
| Displacement Final | Water | 8.3337 | | | 0.00 | | | 0.0000 | 116.6000 |

| FLUID TYPE | FLUID NAME | COMPONENT | CONCENTRATION | UOM |
|----------------------------|------------------|---|---------------|--------|
| Spacer / Pre Flush / Flush | Water | Fresh Water | 100.0000 | PCT |
| Lead Slurry | BJCem S100.03.1C | IntegraSeal POLI | 0.1300 | LBS/SK |
| Lead Slurry | BJCem S100.03.1C | Cement Additive, Sodium Metasilicate A-2 | 2.0000 | LBS/SK |
| Lead Slurry | BJCem S100.03.1C | CEMENT, ASTM TYPE III | 100.0000 | PCT |
| Lead Slurry | BJCem S100.03.1C | FOAM PREVENTER, FP-25 | 0.3000 | BWOB |
| Lead Slurry | BJCem S100.03.1C | ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS | 2.0000 | LBS/SK |
| Lead Slurry | BJCem S100.03.1C | CEMENT EXTENDER, GYPSUM, A-10 | 5.0000 | BWOB |
| Tail Slurry | BJCem S100.03.1C | CEMENT EXTENDER, GYPSUM, A-10 | 5.0000 | BWOB |
| Tail Slurry | BJCem S100.03.1C | CEMENT, ASTM TYPE III | 100.0000 | PCT |
| Tail Slurry | BJCem S100.03.1C | IntegraSeal POLI | 0.1300 | LBS/SK |
| Tail Slurry | BJCem S100.03.1C | ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS | 2.0000 | LBS/SK |
| Tail Slurry | BJCem S100.03.1C | Cement Additive, Sodium Metasilicate A-2 | 2.0000 | LBS/SK |
| Tail Slurry | BJCem S100.03.1C | FOAM PREVENTER, FP-25 | 0.3000 | BWOB |
| Displacement Final | Water | Fresh Water | 100.0000 | PCT |

DISPLACEMENT AND END OF JOB SUMMARY

| | | | |
|------------------------------------|---------|------------------------------------|--------|
| Displaced By | BJ | Amt of Cement Returned / Reversed | 35.00 |
| Calculated Displacement Vol (bbls) | 117.00 | Method Used to Verify Returns | Visual |
| Actual Displacement Vol (bbls) | 115.00 | Amt of Spacer to Surface | 20.00 |
| Did Float Hold? | Yes | Pressure Left on Casing (psi) | 0.00 |
| Bump Plug | Yes | Amt Bled Back After Job | 0.50 |
| Bump Plug Pressure (psi) | 1050.00 | Total Volume Pumped (bbls) | 311.00 |
| Were Returns Planned at Surface | Yes | Top Out Cement Spotted | No |
| Cement Returns During Job | Full | Lost Circulation During Cement Job | No |

Client: Bayswater Exploration & Production, LLC

Well: LEFFLER #K-26-28HC

Well API: 05-123-50040

Start Date: 7/7/2019

End Date: 7/7/2019



BJ Cementing Event Log

Surface - Cheyenne, WY - Brian Boyd

| SEQ | START DATE / TIME | EVENT | DENSITY (ppg) | PUMP RATE (bpm) | PUMP VOL (bbls) | PIPE PRESSURE (psi) | COMMENTS |
|-----|-------------------|------------------------|---------------|-----------------|-----------------|---------------------|---|
| 1 | 07/07/2019 12:00 | Callout | | | | | Customer requested BJ crew on location at 18:00 |
| 2 | 07/07/2019 15:00 | Arrive on Location | | | | | BJ crew already on location and meet with customer |
| 3 | 07/07/2019 15:00 | STEACS Briefing | | | | | BJ crew has steacs over rigging up iron and hoses |
| 4 | 07/07/2019 15:10 | Rig Up | | | | | BJ crew rigs up iron and hoses |
| 5 | 07/07/2019 15:10 | Other (See comment) | | | | | Waiting on rig to run casing |
| 6 | 07/07/2019 19:45 | STEACS Briefing | | | | | Steacs briefing with BJ crew, rig crew and company man over job and hazards |
| 7 | 07/07/2019 20:15 | Prime Up | 8.3300 | 2.00 | 3.00 | 50.00 | Fill pumps and lines |
| 8 | 07/07/2019 20:17 | Pressure Test | 8.3300 | 0.50 | 0.50 | 58.00 | Pressure test iron and hoses to 3000 PSI |
| 9 | 07/07/2019 20:19 | Pump Spacer | 8.3300 | 6.50 | 20.00 | 170.00 | Pump 20 bbls of fresh water spacer |
| 10 | 07/07/2019 20:24 | Pump Lead Cement | 12.0000 | 6.50 | 115.00 | 320.00 | Pump 115 bbls of 12 PPG lead cement (255 Sks, 2.52 Yield, 14.86 Gals/Sks) |
| 11 | 07/07/2019 20:43 | Pump Tail Cement | 12.5000 | 6.50 | 57.50 | 370.00 | Pump 57.5 bbls of 12.5 PPG tail cement (145 Sks, 2.22 Yield, 12.59 Gals/Sks) |
| 12 | 07/07/2019 20:53 | End Pumping | | | | | Shut down pumping |
| 13 | 07/07/2019 20:56 | Drop Top Plug | | | | | Drop top plug with company man |
| 14 | 07/07/2019 20:56 | Pump Displacement | 8.3300 | 7.00 | | 210.00 | Pump 117 bbls of fresh water displacement |
| 15 | 07/07/2019 21:06 | Cement Back-to-Surface | 8.3300 | 7.00 | 80.00 | 470.00 | 80 bbls into cement got cement to surface for total of 35 bbls to surface |
| 16 | 07/07/2019 21:11 | Pump Displacement | 8.3300 | 3.00 | 100.00 | 430.00 | Last 17 bbls slow rate |
| 17 | 07/07/2019 21:15 | Land Plug | | | 115.00 | 1050.00 | Bump plug to 1050 PSI, FCP of 430 PSI, total displacement of 115 bbls |
| 18 | 07/07/2019 21:18 | Check Floats | | | | | Hold for 3 mins and check floats got .5 bbl back |
| 19 | 07/07/2019 21:20 | Rig Down | | | | | BJ crew has steacs over rigging down iron and hoses, BJ crew rigs down iron and hoses |
| 20 | 07/07/2019 21:25 | Leave Location | | | | | BJ crew has journey management and departs from location |



JobMaster Program Version 4.02C1

Job Number:

Customer: Basywater

Well Name: LEFFLER K-26-28HC

