



Merit Energy

Production Post Job Report

LCSLU 204 15-046-721839

Grant KS

Quote #:

| Execution #:



Merit Energy

Attention: Mr. Daniel Coats | (972) 628-1613 | Daniel.Coats@meritenergy.com

Merit Energy | 13727 Noel Rd, Suite 1200 | Dallas, TX 75240

Dear Mr. Daniel Coats,

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,
Kevin Aldridge
Sales Engineer | (405) 423-6862 | kevin.aldridge@bjservices.com

Cementing Treatment



| | | | |
|---------------------------|----------------------|-----------------------|---------------|
| Start Date | 11/1/2017 | Well | LCSLU 204 |
| End Date | 11/2/2017 | County | Grant |
| Client | MERIT ENERGY COMPANY | State/Province | KS |
| Client Field Rep | Rodney Gonzalez | API | 15-046-721839 |
| Service Supervisor | | Formation | |
| Field Ticket No. | Production | Rig | |
| District | Liberal, KS | Type of Job | Long String |

WELL GEOMETRY

| Type | ID (in) | OD (in) | Wt. (lb/ft) | MD (ft) | TVD (ft) | Excess(%) | Grade | Thread |
|-----------------|---------|---------|-------------|----------|----------|-----------|-------|--------|
| Open Hole | 7.88 | | | 6,610.00 | 6,610.00 | 30.00 | | |
| Casing | 4.89 | 5.50 | 17.00 | 6,604.00 | 6,604.00 | | J-55 | LTC |
| Previous Casing | 8.10 | 8.63 | 24.00 | 1,455.00 | 1,455.00 | | J-55 | LTC |

Shoe Length (ft): 42

HARDWARE

| | | | |
|----------------------------------|-------|---|----------|
| Bottom Plug Used? | Yes | Tool Type | DV Tool |
| Bottom Plug Provided By | BJ | Tool Depth (ft) | 5,020.00 |
| Bottom Plug Size | 5.500 | Max Tubing Pressure - Rated (psi) | |
| Top Plug Used? | Yes | Max Tubing Pressure - Operated (psi) | |
| Top Plug Provided By | BJ | Max Casing Pressure - Rated (psi) | 5,300.00 |
| Top Plug Size | 5.500 | Max Casing Pressure - Operated (psi) | 2,000.00 |
| Centralizers Used | Yes | Pipe Movement | None |
| Centralizers Quantity | 14.00 | Job Pumped Through | Manifold |
| Centralizers Type | Bow | Top Connection Thread | lrc |
| Landing Collar Depth (ft) | 6,558 | Top Connection Size | 5 1/2 |

CIRCULATION PRIOR TO JOB

Cementing Treatment



| | | | |
|---|--------|---|----|
| Well Circulated By | Rig | Solids Present at End of Circulation | No |
| Circulation Prior to Job | Yes | 10 sec SGS | |
| Circulation Time (min) | 1.00 | 10 min SGS | |
| Circulation Rate (bpm) | 5.00 | 30 min SGS | |
| Circulation Volume (bbls) | 200.00 | Flare Prior to/during the Cement Job | No |
| Lost Circulation Prior to Cement Job | No | Gas Present | No |
| Mud Density In (ppg) | 9.00 | Gas Units | |
| Mud Density Out (ppg) | 8.80 | | |
| PV Mud In | | | |
| PV Mud Out | | | |
| YP Mud In | | | |
| YP Mud Out | | | |

TEMPERATURE

| | | | |
|-----------------------------------|-------|---------------------------------------|-------|
| Ambient Temperature (°F) | 46.00 | Slurry Cement Temperature (°F) | 55.00 |
| Mix Water Temperature (°F) | 39.00 | Flow Line Temperature (°F) | 60.00 |

BJ FLUID DETAILS

| Fluid Type | Fluid Name | Density (ppg) | Yield (Cu Ft/sk) | H2O Req. (gals/sk) | Vol (sk) | Vol (Cu Ft) | Vol (bbls) |
|----------------------------|--------------------------|---------------|------------------|--------------------|----------|-------------|------------|
| Spacer / Pre Flush / Flush | UltraFlush | 8.4000 | | | | | 12.0000 |
| Spacer / Pre Flush / Flush | UltraFlush | 8.4000 | | | | | 12.0000 |
| Tail Slurry | Second Stage Tail | 13.6000 | 1.8626 | 8.94 | 160 | 293.0000 | 52.1000 |
| Tail Slurry | First Stage Tail | 13.6000 | 1.5590 | 6.83 | 235 | 366.0000 | 65.2000 |
| Top-Out / Scavenger Slurry | Mouse hole/Rat hole Plug | 13.6000 | 1.5590 | 6.83 | 51 | 78.0000 | 13.9000 |
| Displacement | 1st Stage | 8.3300 | | | | 0.0000 | 152.5000 |

Cementing Treatment



| | | | | |
|--------------|--------------|--------|--------|----------|
| Final | Displacement | | | |
| Displacement | 2nd Stage | 8.3400 | 0.0000 | 116.2000 |
| Final | Displacement | | | |

| Fluid Type | Fluid Name | Component | Concentration | UOM |
|----------------------------|--------------------------|--------------------------------------|---------------|--------|
| Spacer / Pre Flush / Flush | UltraFlush | IntegraGuard ULTRA II | 100.00 | PCT |
| Spacer / Pre Flush / Flush | UltraFlush | IntegraGuard ULTRA II | 100.00 | PCT |
| Tail Slurry | Second Stage Tail | CEMENT, CLASS A | 100.00 | PCT |
| Tail Slurry | Second Stage Tail | SALT, Sodium Chloride, Medium | 10.00 | BWOW |
| Tail Slurry | Second Stage Tail | CFL-210 | 0.50 | BWOB |
| Tail Slurry | Second Stage Tail | IntegraSeal CELLO | 0.25 | LBS/SK |
| Tail Slurry | Second Stage Tail | FP-25, Dry Foam Preventer (BJS Only) | 0.20 | BWOB |
| Tail Slurry | First Stage Tail | CEMENT, CLASS H | 50.00 | PCT |
| Tail Slurry | First Stage Tail | IntegraSeal CELLO | 0.25 | LBS/SK |
| Tail Slurry | First Stage Tail | SALT, Sodium Chloride, Medium | 10.00 | BWOW |
| Tail Slurry | First Stage Tail | EXTENDER, BENTONITE | 2.00 | BWOB |
| Tail Slurry | First Stage Tail | CD-100 | 0.20 | BWOB |
| Tail Slurry | First Stage Tail | FP-25, Dry Foam Preventer (BJS Only) | 0.20 | BWOB |
| Tail Slurry | Second Stage Tail | EXTENDER, BENTONITE | 2.00 | BWOB |
| Tail Slurry | Second Stage Tail | LOST CIRCULATION, LCM-1 | 5.00 | LBS/SK |
| Tail Slurry | Second Stage Tail | CEMENT EXTENDER, GYPSUM, A-10 | 6.00 | BWOB |
| Tail Slurry | First Stage Tail | CFL-210 | 0.50 | BWOB |
| Tail Slurry | First Stage Tail | LOST CIRCULATION, LCM-1 | 5.00 | LBS/SK |
| Tail Slurry | First Stage Tail | CEMENT EXTENDER, GYPSUM, A-10 | 5.00 | BWOB |
| Tail Slurry | First Stage Tail | CEMENT, FLY ASH (POZZOLAN) | 50.00 | PCT |
| Top-Out / Scavenger Slurry | Mouse hole/Rat hole Plug | CEMENT, CLASS H | 50.00 | PCT |
| Top-Out / Scavenger | Mouse hole/Rat hole | EXTENDER, BENTONITE | 2.00 | BWOB |

Cementing Treatment



| Slurry | Plug | | |
|----------------------------|--------------------------|--------------------------------------|-------------|
| Top-Out / Scavenger Slurry | Mouse hole/Rat hole Plug | SALT, Sodium Chloride, Medium | 10.00 BWOW |
| Top-Out / Scavenger Slurry | Mouse hole/Rat hole Plug | CEMENT EXTENDER, GYPSUM, A-10 | 5.00 BWOB |
| Top-Out / Scavenger Slurry | Mouse hole/Rat hole Plug | CD-100 | 0.20 BWOB |
| Top-Out / Scavenger Slurry | Mouse hole/Rat hole Plug | FP-25, Dry Foam Preventer (BJS Only) | 0.20 BWOB |
| Top-Out / Scavenger Slurry | Mouse hole/Rat hole Plug | LOST CIRCULATION, LCM-1 | 5.00 LBS/SK |
| Top-Out / Scavenger Slurry | Mouse hole/Rat hole Plug | IntegraSeal CELLO | 0.25 LBS/SK |
| Top-Out / Scavenger Slurry | Mouse hole/Rat hole Plug | CFL-210 | 0.50 BWOB |
| Top-Out / Scavenger Slurry | Mouse hole/Rat hole Plug | CEMENT, FLY ASH (POZZOLAN) | 50.00 PCT |

TREATMENT SUMMARY

| Time | Fluid | Rate (bpm) | Fluid Vol. (bbls) | Pipe Pressure (psi) | Annulus Pressure (psi) | Comments |
|------|------------------------|------------|-------------------|---------------------|------------------------|----------|
| | UltraFlush | 3.00 | 12.00 | | | |
| | First Stage Tail | 4.00 | 65.20 | | | |
| | 1st Stage Displacement | 4.00 | 152.50 | | | |
| | UltraFlush | 3.00 | 12.00 | | | |
| | Second Stage Tail | 4.00 | 52.10 | | | |
| | 2nd Stage Displacement | 4.00 | 116.20 | | | |
| | | | Min | | Max | Avg |
| | Pressure (psi) | | 80.00 | | 2,000.00 | 300.00 |
| | Rate (bpm) | | 1.00 | | 6.00 | 3.00 |

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By

BJ

Amount of Cement

Cementing Treatment



| | | Returned/Reversed | |
|---------------------------------------|----------|------------------------------------|--------|
| Calculated Displacement Volume (bbls) | 152.00 | Method Used to Verify Returns | Visual |
| Actual Displacement Volume (bbls) | 152.00 | Amount of Spacer to Surface | 12.00 |
| Did Float Hold? | Yes | Pressure Left on Casing (psi) | 0.00 |
| Bump Plug | Yes | Amount Bled Back After Job | 1.00 |
| Bump Plug Pressure (psi) | 1,800.00 | Total Volume Pumped (bbls) | 412.00 |
| Were Returns Planned at Surface | No | Top Out Cement Spotted | No |
| Cement returns During Job | None | Lost Circulation During Cement Job | No |

CEMENT PLUG

| | | | |
|------------------------|-----|-------------------|----|
| Bottom of Cement Plug? | Yes | Wiper Balls Used? | No |
| Wiper Ball Quantity | | Plug Catcher | No |
| Number of Plugs | 2 | | |

SQUEEZE

| | | | |
|---------------------------------|--|---------------------|--|
| Injection Rate (bpm) | | Fluid Density (ppg) | |
| Injection Pressure (psi) | | ISIP (psi) | |
| Type of Squeeze | | FSIP (psi) | |
| Operators Max SQ Pressure (psi) | | | |

COMMENTS

Treatment Report

Job Summary



Customer Name MERIT ENERGY
 Well Name LCSLU 204
 Job Type Two-Stage Cement

District Liberal
 Supervisor ALDO ESPINOZA
 Engineer LENNY BAEZA

| Seq No. | Start Date/Time | Category | Event | Equipment | Event ID | Density (lb/gal) | Pump Rate (bpm) | Pump Vol (bbls) | Pipe Pressure (psi) | Comments |
|---------|-----------------|--------------|--------------------|-------------------|----------|------------------|-----------------|-----------------|---------------------|-------------------------------------|
| 1 | 11-17 10:00PM | Mobilization | Arrive on Location | Cement Pump Truck | 48 | | | | | ON LOCATION |
| 2 | 1030PM | Operational | Rig Up | Cement Pump Truck | 50 | | | | | RIG UP |
| 3 | 11/2/2017 0:45 | Operational | Safety Meeting | | 53 | | | | | SAFETY MEETING |
| 4 | 1230AM | Operational | | | | | | | | CASING ON BOTTOM |
| 5 | 100AM | Operational | Pressure Test | | 54 | | 0.2 | | 2000 | PRESSURE TEST LINES 2000 PSI |
| 6 | | | START FIRST STAGE | | | | | | | START FIRST STAGE |
| 7 | 105AM | | HIVISS | | | 8.4 | 3 | 12 | 600 | 12 BBL HIVISS SWEEP |
| 8 | 112AM | | SLURRY | | | 13.6 | 4 | 65 | 300 | 2355K/ 65 BBL SLURRY AT 13.6# |
| 9 | 140AM | | WASH | | | | 3 | 10 | | WASH PUMPING LINES TO PIT |
| 10 | 145AM | | PLUG | | | | | | | DROP LATCH DOWN PLUG |
| 11 | 148AM | | DISPLACEMENT | | | 8.34 | 3 | | 70 | START DISPLACING W/FRESH WATER |
| 12 | 158AM | | MUD | | | 9 | 4 | 37 | 160 | 37 BBL SWAP TO MUD |
| 13 | 202AM | | | | | 9 | 4 | 23 | 200 | 60 BBL GONE |
| 14 | 206AM | | | | | 9 | 3 | 20 | 80 | 80 BBL GONE, PARTIAL CIRCULATION |
| 15 | 209AM | | | | | 9 | 4 | 20 | 400 | 100 BBL GONE, FULL CIRCULATION |
| 16 | 215AM | | | | | 9 | 3 | 10 | 380 | 110 BBL SLOW DOWN TO GO TRHU TOOL |
| 17 | 219AM | | | | | 9 | 4 | 10 | 540 | 120 BBL GONE |
| 18 | 224AM | | | | | 9 | 3 | 20 | 800 | 140 BBL SLOW DOWN TO LAND PLUG |
| 19 | 228AM | | BUMP PLUG | | | 9 | 3 | 12 | 900-1400 | 152 BBL BUMP PLUG |
| 20 | 230AM | | FLOATS | | | | | | 0 | CHECK FLOATS |
| 21 | | | | | | | | | | FLOATS WORKING |
| 22 | 230AM | | DROP TOOL | | | | | | | DROP OPENING TOOL |
| 23 | 315AM | | OPEN TOOL | | | 9 | | 20 | 1300 | OPEN TOOL, BRAKE CIRCULATION |
| 24 | 335AM | | RIG | | | 9 | | | | SWAP TO RIG |
| 25 | 700AM | | SECOND STAGE | | | | | | | SECOND STAGE |
| 26 | 710AM | Operational | | Cement Pump Truck | | 8.4 | | 12 | 300 | 12 BBL HIVISS SWEEP |
| 27 | 715AM | | | | | 13 | 3 | 16 | 70 | CEMENT RAT & MOUSE |
| 28 | 721AM | | SLURRY | | | 13.6 | 4 | 54 | 250 | 160SK/54 BBL SLURRY AT 13.6 |
| 29 | 738AM | | WASH | | | | 3 | 10 | | WASH PUMPING LINES TO PIT |
| 30 | 744AM | | PLUG | | | | | | | RELEASE PLUG |
| 31 | 744AM | | DISPLACEMENT | | | | 3 | | 40 | START DISPLACEMENT |
| 32 | 748AM | | | | | 8.34 | 4 | 20 | 80 | 20 BBL GONE |
| 33 | 753AM | | | | | | 4 | 20 | 80 | 40 BBL GONE |
| 34 | 757AM | | | | | | 4 | 20 | 80 | 60 BBL GONE |
| 35 | 802AM | | | | | | 4 | 20 | 390 | 80 BBL GONE |
| 36 | 808AM | | | | | | 3 | 20 | 710 | 100 BBL SLOW DOWN TO LAND PLUG |
| 37 | 815AM | | BUMP | | | | 3 | 16 | 800-1860 | 116 BBL BUMP PLUG |
| 38 | 817AM | | FLOATS | | | | | | 0 | CHECK FLOATS |
| 39 | 817AM | | PRESSURE TEST | | | 8.34 | 1 | | 1500 | PRESSURE TEST CASING FOR 30 MIN |
| 40 | 845AM | | FLOATS | | | | | | 0 | CHECK FLOATS |
| 41 | 850AM | Operational | RIG DOWN | | 73 | | | | | RIG DOWN |
| 42 | 1000AM | | | | | | | | | LEAVE LOCATION |
| 43 | | | | | | | | | | LEAVE P.E. FOR NEXT JOB ON LOCATION |



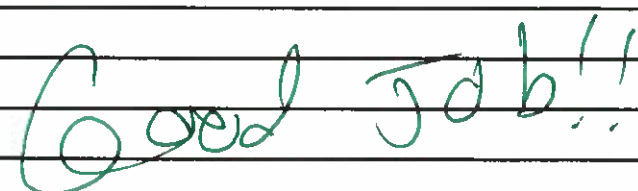
Customer: MERIT ENERGY COMPANY
Date: Thursday, November 02, 2017
Well Name: LCSLU # 204
Well Location: Ulysses, Kansas
Supervisor: Aldo Espinosa

Equipment Operators: ALDO ESPINOZA - CRISTIAN CAMACHO - CARLOS IBARRA

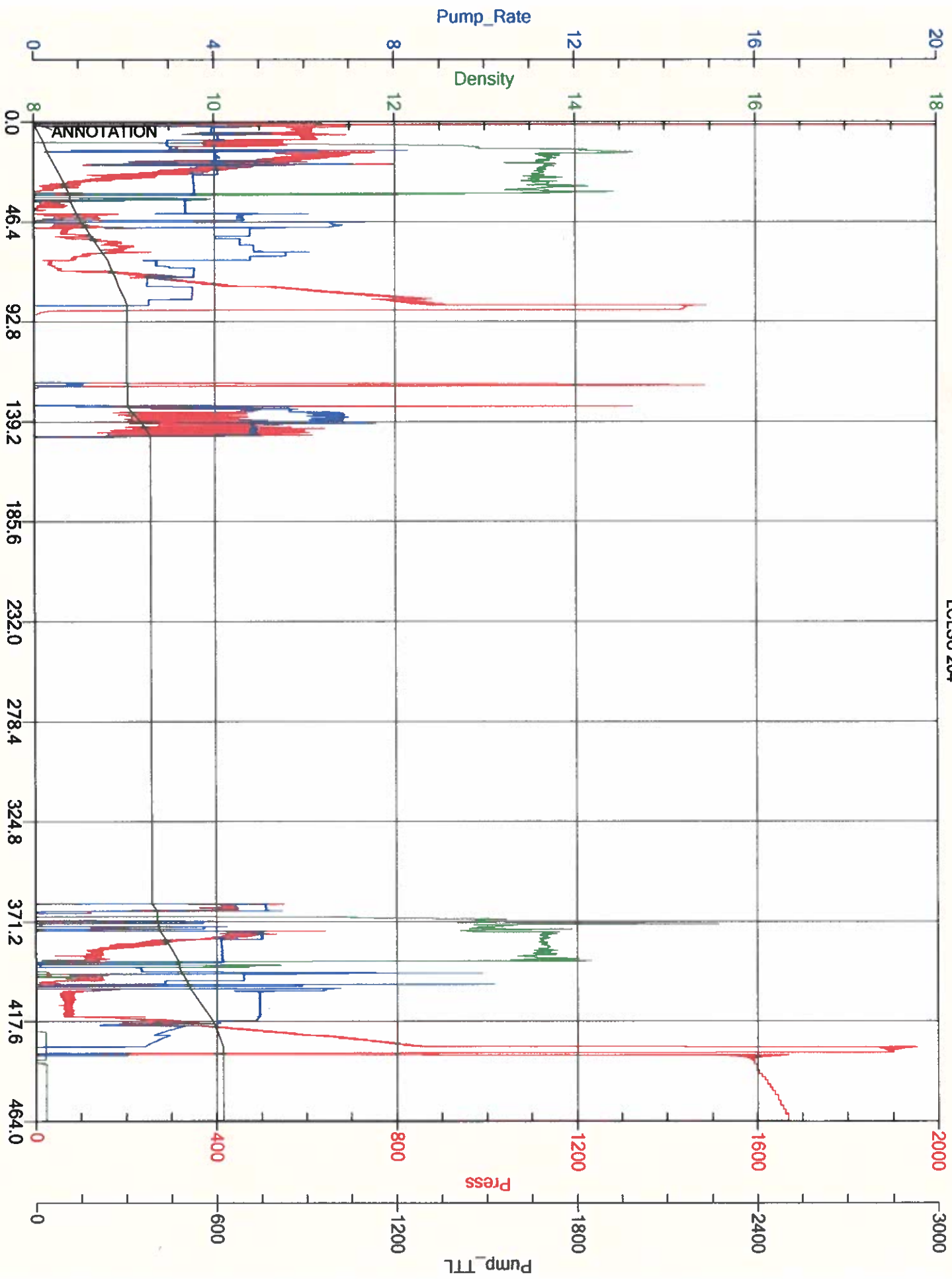
| Performance | Customer | |
|---|---|-----------------------------|
| Was the appearance of the personnel and equipment satisfactory? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Was the job performed in a professional manner? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Were the calculations prepared and explained properly? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Were the correct services dispatched to the job site? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Were the services performed as requested? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Did the job site environment remain unchanged? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Did the equipment perform in the manner expected? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Did the materials meet your expectations? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Was the crew prepared for the job? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Was the crew prompt in the rig-up and actual job? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Were reasonable recommendations given, as requested? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Did the crew perform safely? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Was the job performed to your satisfaction? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

Customer Signature:  Date: 11-2-17

Additional Comments:



MERIT ENERGY LCISU 204





CEMENT MIXING WATER GUIDELINES

Company Name: **MERIT ENERGY COMPANY**

Lease Name: _____

County: **Grant County** State: **KS**

Water Source: **TANK**

Submitted By: **Aldo Espinosa** Date: **11/2/2017**

| | | |
|-------------|------------|-----------------------------|
| pH Level | <u>7</u> | Must be less than 8.5 |
| Sulfates | <u>400</u> | Must be less than 1,000 PPM |
| Chlorides | <u>0</u> | Must be less than 3,000 PPM |
| Temperature | <u>64</u> | |

COMMENTS

Thank You

Customer Signature 