



Depend on US

Post Job Report

Merit Energy

Longbow 2-10

8/31/2016

8.625" Surface Casing

Grant County, KS





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1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Longbow 2-10.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 2000 psi. After a successful test we began the job by pumping 10 bbls of Fresh Water spacer. We then mixed and pumped the following cements:

| | |
|-------------------------|------------------------------|
| 168.04 bbl | 370 Sacks of 12.1 ppg |
| Class A Slurry - | 2.55 Yield |

- 2.0% Sodium Metasilicate
- 2.0% Gypsum
- 4.0% Gel
- 2.0% Sodium Chloride
- 3.0 % Calcium Chloride
- 0.25 lb Cellophane Flake

| | |
|-------------------------|------------------------------|
| 39.58 bbl | 175 Sacks of 15.2 ppg |
| Class A Slurry - | 1.27 Yield |

- 2.0 % Calcium Chloride
- 0.25 lb Cellophane Flake

The top plug was then released and displaced with 93 Bbls of Fresh Water. The plug bumped and was pressured to 1500 psi. Upon release the floats held. 93 bbl cement returned to the pit.

All real time data can be view in the Job Summary section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



Cement Job Summary

| | | | |
|--------------------------------|--|---------------------------|-----------------|
| Job Number: LIK1608311401 | | Job Purpose: 01 Surface | |
| Customer: MERIT ENERGY COMPANY | | | Date: 8/31/2016 |
| Well Name: Longbow | | Number: 2-10 | |
| County: Grant | | State: KS | |
| Cust. Rep: Rodney Gonzales | | Rig Phone: | |
| Legal Desc: | | Rig Name: Duke Drilling#9 | |
| Distance: 50 miles (one way) | | Supervisor: Kenny Baeza | |

| Employees: | Emp. ID: | Employees: | Emp. ID: |
|-------------------|----------|------------|----------|
| Ayala, Alejandro | 0 | | |
| Ball, Max | 0 | | |
| Corona, Victor A. | 0 | | |
| Equipment: | | | |
| 903-541 | | | |
| 993-467 | | | |
| 774-1066 | | | |

| Well Information | | | | | | |
|-------------------|------------|--------------|-------------|-------------|-------------|-------------|
| Open Hole Section | | | | | | |
| Description: | Size (in): | Excess | Top MD (ft) | Btm MD (ft) | | |
| OPEN HOLE | 12 1/4 | 110% | 1270 | 1,505 | TAIL CEMENT | |
| OPEN HOLE | 12 1/4 | 110% | 0 | 1,270 | LEAD CEMENT | |
| OPEN HOLE | 12 1/4 | | | 0 | | |
| OPEN HOLE | 12 1/4 | | | | | |
| Tubulars | | | | | | |
| Description: | Size (in): | Wgt. (lb/ft) | ID (in) | Grade: | Top MD (ft) | Btm MD (ft) |
| TOTAL CASING | 8 5/8 | 24 | 8.097 | J-55 | 0 | 1,505 |
| SHOE | 8 5/8 | 24 | 8.097 | J-55 | 1,463 | 1,505 |

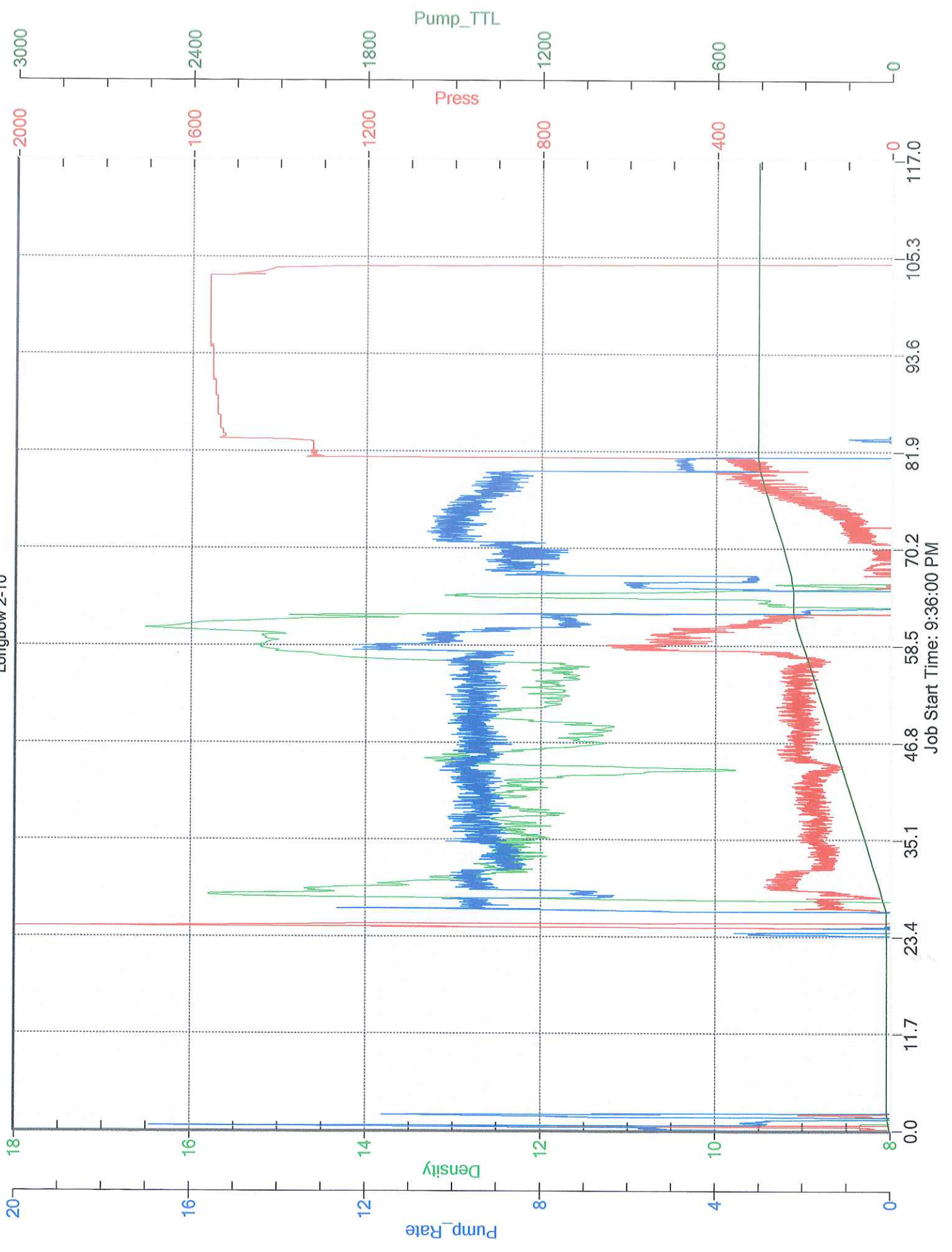
| Materials - Pumping Schedule | | | | | | |
|------------------------------|---------------------------------------|---------------|---------------|-------------|----------------|--|
| Fluid Name | Description | Rqstd Qty | Density | Yield | Water (gal/sk) | |
| Spacer 1 | Fresh Water | 10 | 8.33 | n/a | n/a | |
| Fluid Name | Description | Rqstd Qty | Density | Yield | Water (gal/sk) | |
| Lead 1 | ALLIED MULTI-DENSITY CEMENT - CLASS A | 370 | 12.10 | 2.55 | 14.86 | |
| Addl. Additive | Description | Conc. (lb/sk) | Determined by | Load Volume | UOM | |
| CA-100 | CALCIUM CHLORIDE, PELLETS OR FLAKE | 2.82 | % BWOC | 1043.4 | lbm | |
| CLC-CPF | CELLOPHANE FLAKES | 0.5 | lb/sk | 185.0 | lbm | |
| Fluid Name | Description | Rqstd Qty | Density | Yield | Water (gal/sk) | |
| Tail 1 | CLASS A COMMON | 175 | 15.20 | 1.27 | 5.74 | |
| Addl. Additive | Description | Conc. (lb/sk) | Determined by | Load Volume | UOM | |
| CA-100 | CALCIUM CHLORIDE, PELLETS OR FLAKE | 1.88 | % BWOC | 329.0 | lbm | |
| CLC-CPF | CELLOPHANE FLAKES | 0.5 | lb/sk | 87.5 | lbm | |
| Fluid Name | Description | Rqstd Qty | Density | Yield | Water (gal/sk) | |
| Disp. 1 | Displacement | 93.16904797 | 8.33 | n/a | n/a | |

| | | | |
|--------------------------------|--|-------------------------|-----------------|
| Job Number: LIK1608311401 | | Job Purpose: 01 Surface | |
| Customer: MERIT ENERGY COMPANY | | | Date: 8/31/2016 |
| Well Name: Longbow | | Number: 2-10 | |
| County: Grant | | State: KS | |
| Cust. Rep: Rodney Gonzales | | Rig Phone: 0 | |
| Distance: 50 miles (one way) | | Supervisor: Kenny Baeza | |

Cement Job Summary

| TIME AM/PM | PRESSURE - (PSI) | | FLUID PUMPED DATA | | COMMENTS |
|---------------|------------------|---------|-------------------|------------|----------------------------------|
| | CASING | ANNULUS | VOLUME | RATE (BPM) | |
| 1200 pm | | | | | Arrived Location |
| 1215 pm | | | | | Had Safety Meeting |
| 1220 pm | | | .2 | .2 | Press Tested Lines To 2000 PSI |
| 1222 pm | 50 | | 10.2 | 7 | Pumped H2O Spacer |
| 1223 pm | 50 | | 178.5 | 8 | Mixed 370 Sacks Lead Cement |
| 1240 pm | 50 | | 218 | 8 | Mixed 170 Sacks Tail Cement |
| 1254 pm | | | | | Shut Down And Dropped Plug |
| 1255 pm | 50 | | | 5 | Start Disp |
| 1258 pm | 200 | | | 8 | Cought Cement at 20 bbls gone |
| 1300 pm | 200 | | 248 | 8 | 30 bbls Gone |
| 1320 pm | 270 | | 278 | 8 | 60 bbls Gone |
| 1340 pm | 350 | | 298 | 5 | Slowed Rate Down On Last 10 bbls |
| 1345 pm | | | 308 | | Landed Plug |
| 1400 pm | 1500 | | | | Press Tested Casing 15 min |
| 1401 pm | 0 | | | | Released Press & Check Floats |
| 1402 pm | | | | | Floats Held and Got |
| 1405 pm | | | | | Rig Down & Relesed Crew |
| | | | | | |
| | | | | | Got 93 BBL's Back Cement |
| | | | | | |

Merit Energy Longbow 2-10





CEMENT MIXING WATER GUIDELINES

Company Name: MERIT ENERGY COMPANY

Lease Name: Longbow # 2-10

County Grant State KS

Water Source: TANK

Submitted By: Kenny Baeza Date: 8/31/2016

pH Level 7 Must be less than 8.5

Sulfates 400 Must be less than 1,000 PPM

Chlorides 0 Must be less than 3,000 PPM

Temperature 64

COMMENTS

[Empty box for comments]

Thank You

Customer Signature *Kenny Baeza*



Customer: MERIT ENERGY COMPANY
Date: Wednesday, August 31, 2016
Well Name: Longbow # 2-10
Well Location: _____
Supervisor: Kenny Baeza

Equipment Operators: Ayala, Alejandro - Ball, Max - Corona, Victor A.

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

Customer Signature: *Rodney Gonzalez* Date: 8-30-16

Additional Comments:
Good Job!