

FIELD TICKET

Client MERIT ENERGY COMPANY

Well HMU 205W

Job Description Surface

Date November 14, 2017

Field Ticket # FT-00932-Y8W0M00202-21390



Field Ticket # FT-00932-Y8W0M00202-21390

Credit Approval #

Client MERIT ENERGY COMPANY

Purchase Approval #

PO BOX 1293, LIBERAL, 67905-1293 **Invoice #**

Field Rep James Peppin

Well HMU 205W

Field Client Rep Rodney Gonzalez

Well API # 15-055-22470

District Liberal, KS

Well Type

Job Type Surface

Well Classification

Job Depth (ft) 1,847.00

County USA

Gas Used On Job Yes

State/Province KS

Field

Lease

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MATERIALS

| Product Code | Description | UOM | Quantity | List Price | Gross Amount | Disc (%) | Net Amount |
|-----------------------------------|---|-----|------------|------------|--------------------|----------|--------------------|
| L488168 | CEMENT, ASTM TYPE I | SK | 680.0000 | \$44.11 | \$29,994.80 | 76.00 | \$7,198.75 |
| L100404 | SALT,SODIUM CHLORIDE, A-5 | LB | 1,239.0000 | \$1.04 | \$1,288.56 | 76.00 | \$309.25 |
| L100120 | EXTENDER, BENTONITE | LB | 1,899.0000 | \$2.08 | \$3,949.92 | 76.00 | \$947.98 |
| L100318 | CEMENT EXTENDER, GYPSUM, A-10 | LB | 950.0000 | \$0.72 | \$684.00 | 76.00 | \$164.16 |
| L100295 | IntegraSeal CELLO | LB | 340.0000 | \$5.76 | \$1,958.40 | 76.00 | \$470.02 |
| L013156 | Cement Nose, 8-5/8 in. | EA | 1.0000 | \$460.00 | \$460.00 | 76.00 | \$110.40 |
| L100275 | CEMENT EXTENDER, SODIUM METASILICATE, A-2 | LB | 950.0000 | \$3.28 | \$3,116.00 | 76.00 | \$747.84 |
| L100112 | ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS | LB | 1,754.0000 | \$2.40 | \$4,209.60 | 76.00 | \$1,010.30 |
| L016033 | Float Collars with aluminum flapper, 8-5/8 in. | EA | 1.0000 | \$1,214.00 | \$1,214.00 | 76.00 | \$291.36 |
| L017068 | CENTRALIZER,8-5/8"NON- WELD | EA | 10.0000 | \$246.40 | \$2,464.00 | 76.00 | \$591.36 |
| L86718 | PLUG,CEMENT 8.6 TOP BJPL | EA | 1.0000 | \$287.04 | \$287.04 | 76.00 | \$68.89 |
| L015399 | Float collars with poppet valve, 8-5/8 in. | EA | 1.0000 | \$0.00 | \$0.00 | 76.00 | \$0.00 |
| 1000101 | THREAD LOCK, 8-5/8 IN. | EA | 6.0000 | \$195.00 | \$1,170.00 | 76.00 | \$280.80 |
| Product Material Subtotal: | | | | | \$50,796.32 | | \$12,191.11 |

SERVICES

| Product Code | Description | UOM | Quantity | List Price | Gross Amount | Disc (%) | Net Amount |
|--------------|---|------|----------|-------------|--------------|----------|------------|
| S-100049 | Cement pump charge, 1,001- 2,000 feet/ 301-600 m | 4/HR | 1.00 | \$4,680.00 | \$4,680.000 | 91.00 | \$421.200 |
| S-100001 | Mileage - vehicle heavy weight | MI | 50.00 | \$18.96 | \$948.000 | 91.00 | \$85.320 |
| S-100004 | Cement Crew Mobilization- Demobilization Fee | EA | 1.00 | \$10,880.00 | \$10,880.000 | 91.00 | \$979.200 |
| S-100475 | Cement head | EA | 1.00 | \$2,656.00 | \$2,656.000 | 91.00 | \$239.040 |

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| | | | | | | |
|----------|-----------------------------------|-------|--------------------------|--------------------|-------|-------------------|
| S-100002 | Mileage - vehicle light weight MI | 50.00 | \$10.72 | \$536.000 | 91.00 | \$48.240 |
| | | | Service Subtotal: | \$19,700.00 | | \$1,773.00 |

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FIELD ESTIMATES

TOTAL GROSS AMOUNT \$70,496.320
TOTAL % DISC 80.192
TOTAL NET AMOUNT \$13,964.117

Arrive Location

Client Rep.

| | |
|--------|--------------------|
| Well | Hmu 205W (Ref 205) |
| AFE | 55333 |
| GL | 83001075 |
| Office | London City |
| Date | 11-14-17 |

Service Order

I authorize work to begin per service instructions in accordance with the terms and conditions printed on the following pages of this form and represent that I have authority to accept and sign this order.

Service receipt

I certify that the materials and services listed were received and all services performed in a workmanlike manner.

BJ REPRESENTATIVE

James Peppin

CLIENT AUTHORIZED AGENT

Rodney Gonzalez S

Cementing Treatment



| | | | |
|---------------------------|----------------------|-----------------------|--------------|
| Start Date | 10/14/2017 | Well | HMU 205W |
| End Date | 12/30/2017 | County | Finney |
| Client | MERIT ENERGY COMPANY | State/Province | KS |
| Client Field Rep | Rodney Gonzalez | API | 15-055-22470 |
| Service Supervisor | | Formation | |
| Field Ticket No. | 8.625" Surface | Rig | |
| District | Liberal, KS | Type of Job | Surface |

WELL GEOMETRY

| Type | ID (in) | OD (in) | Wt. (lb/ft) | MD (ft) | TVD (ft) | Excess(%) | Grade | Thread |
|-----------|---------|---------|-------------|----------|----------|-----------|-------|--------|
| Open Hole | 12.25 | | | 1,847.00 | 1,847.00 | 0.00 | | |
| Open Hole | 12.25 | | | 1,347.00 | 1,347.00 | 130.00 | | |
| Casing | 8.10 | 8.63 | 24.00 | 1,847.00 | 1,847.00 | | J-55 | LTC |

Shoe Length (ft): 42

HARDWARE

| | | | |
|----------------------------------|-------|---|----------|
| Bottom Plug Used? | No | Tool Type | |
| Bottom Plug Provided By | BJ | Tool Depth (ft) | |
| Bottom Plug Size | | Max Tubing Pressure - Rated (psi) | |
| Top Plug Used? | Yes | Max Tubing Pressure - Operated (psi) | |
| Top Plug Provided By | BJ | Max Casing Pressure - Rated (psi) | 2,950.00 |
| Top Plug Size | 8.625 | Max Casing Pressure - Operated (psi) | 2,360.00 |
| Centralizers Used | No | Pipe Movement | None |
| Centralizers Quantity | | Job Pumped Through | |
| Centralizers Type | | Top Connection Thread | 8 rd |
| Landing Collar Depth (ft) | 1,805 | Top Connection Size | 8.625 |

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) **10 min SGS**
Circulation Rate (bpm) **30 min SGS**
Circulation Volume (bbls) **Flare Prior to/during the Cement Job** No
Lost Circulation Prior to Cement Job No **Gas Present** No
Mud Density In (ppg) **Gas Units**
Mud Density Out (ppg)
PV Mud In
PV Mud Out
YP Mud In
YP Mud Out

TEMPERATURE

Ambient Temperature (°F) **Slurry Cement Temperature (°F)**
Mix Water Temperature (°F) **Flow Line Temperature (°F)**

BJ FLUID DETAILS

| Fluid Type | Fluid Name | Density (ppg) | Yield (Cu Ft/sk) | H2O Req. (gals/sk) | Vol (sk) | Vol (Cu Ft) | Vol (bbls) |
|-------------|----------------------|---------------|------------------|--------------------|----------|-------------|------------|
| Lead Slurry | Multi Density Cement | 12.1000 | 2.5410 | 14.71 | 505 | 1,278.0000 | 227.5000 |
| Tail Slurry | Class A Cement | 15.2000 | 1.2692 | 5.74 | 175 | 222.0000 | 39.4000 |

| Fluid Type | Fluid Name | Component | Concentration | UOM |
|-------------|----------------------|---------------------------------------|---------------|------|
| Lead Slurry | Multi Density Cement | CEMENT, ASTM TYPE I | 100.00 | PCT |
| Lead Slurry | Multi Density Cement | CEMENT EXTENDER, GYPSUM, A-10 | 2.00 | BWOB |
| Lead Slurry | Multi Density Cement | CEMENT EXTENDER, SODIUM METASILICATE, | 2.00 | BWOB |

Cementing Treatment



| | | A-2 | |
|-------------|----------------------|---|-------------|
| Lead Slurry | Multi Density Cement | SALT,SODIUM CHLORIDE, A-5 | 2.00 BWOW |
| Lead Slurry | Multi Density Cement | EXTENDER, BENTONITE | 4.00 BWOB |
| Lead Slurry | Multi Density Cement | ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS | 3.00 BWOB |
| Lead Slurry | Multi Density Cement | IntegraSeal CELLO | 0.50 LBS/SK |
| Tail Slurry | Class A Cement | IntegraSeal CELLO | 0.50 LBS/SK |
| Tail Slurry | Class A Cement | CEMENT, ASTM TYPE I | 100.00 PCT |
| Tail Slurry | Class A Cement | ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS | 2.00 BWOB |

TREATMENT SUMMARY

| Time | Fluid | Rate (bpm) | Fluid Vol. (bbls) | Pipe Pressure (psi) | Annulus Pressure (psi) | Comments |
|------|----------------------|------------|-------------------|---------------------|------------------------|----------|
| | Multi Density Cement | 0.00 | 227.50 | | | |
| | Class A Cement | 0.00 | 39.40 | | | |
| | | | Min | Max | | Avg |
| | Pressure (psi) | | 200.00 | 300.00 | | 200.00 |
| | Rate (bpm) | | 5.00 | 5.00 | | 5.00 |

DISPLACEMENT AND END OF JOB SUMMARY

| | | | |
|---------------------------------------|--------|------------------------------------|--------|
| Displaced By | BJ | Amount of Cement Returned/Reversed | 73.00 |
| Calculated Displacement Volume (bbls) | 114.00 | Method Used to Verify Returns | Visual |
| Actual Displacement Volume (bbls) | 116.00 | Amount of Spacer to Surface | |
| Did Float Hold? | Yes | Pressure Left on Casing (psi) | 300.00 |
| Bump Plug | No | Amount Bled Back After Job | 0.00 |
| Bump Plug Pressure (psi) | | Total Volume Pumped (bbls) | 393.00 |
| Were Returns Planned at Surface | Yes | Top Out Cement Spotted | No |

Cementing Treatment



Cement returns During Job Full Lost Circulation During Cement Job No

CEMENT PLUG

Bottom of Cement Plug? No Wiper Balls Used? No
Wiper Ball Quantity Plug Catcher No
Number of Plugs

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

| time | psi | rate | bbls | name |
|--------|------|------|------|---|
| 610 pm | 2500 | | | test lines |
| 612 | 110 | 5 | 10 | h20 |
| 615 | 210 | 5 | 228 | lead cmt |
| 728 | 267 | 6 | 39 | tail cmt |
| 745 | | | | drop plug |
| 747 | 100 | 5 | | disp plug |
| 757 | 120 | 5.5 | | 50 bbl gone on disp |
| 806 | 320 | 5.5 | | 100 bbl gone on disp |
| 808 | 290 | 3 | 10 | last 10 bbl slow rate down to bump plug |
| 810 | 310 | | | no bump |

Job Summary

safety meeting with rig crew and customer
test lines to 2500 psi
pump 10 bbls h20 ahead
pump 228 bbls of lead cmt slurry @ 12.1 wt = 505 sks
pump 39 bbls of tail cmt slurry @ 15.2 wt = 175 sks
shut down drop top rubber plug
disp plug with 114 bbls of h20 from the rig frac tank
last 10 bbls of disp we slow rate down to bump plug

Cementing Treatment



we didnt bump plug we went 2 bbl over as per customer and
still no bump we check float and it held and customer
had us put 300 psi on it and close the head in