



Terra Energy Partners, LLC

INTERMEDIATE POST JOB REPORT

RG 342-18-297 05-103-12462
S:18 T:2S R:97W Rio Blanco CO

CallSheet #: 76798
Proposal #: 51839



INTERMEDIATE Post Job Report

Attention: Mr. Lynn Cass | (970) 263-2716 | lcass@terraep.com
Terra Energy Partners, LLC
4828 Loop Central Dr., Suite 900 | Houston, TX 77081

Dear Mr. Lynn Cass,

Thank you for the opportunity to provide cementing services on this well. American Cementing strives to achieve complete customer satisfaction. If you have any questions regarding the services or data provided, please contact American Cementing at any time.

Sincerely,

Zen Keith

Field Engineer | (307) 757-7178 | zen.keith@americancementing.com

Field Office 28730 US-6, Rifle, CO 81650
Phone: (970) 657-1157

Job Details & Summary

Geometry

| Type | Function | OD (in) | ID (in) | Weight (lb/ft) | Thread | Top (ft) | Bottom (ft) | Excess (%) |
|-----------|----------|---------|---------|----------------|--------|----------|-------------|------------|
| Casing | Outer | 13.375 | 12.615 | 54.5 | n/a | 0 | 1391 | 0 |
| Open Hole | Outer | n/a | 12.25 | n/a | n/a | 1418 | 3286 | 50 |
| Casing | Inner | 9.625 | 8.921 | 36 | LTC | 0 | 3279.48 | 0 |

Equipment / People

| Unit Type | Unit | Power Unit | Employee #1 |
|--------------------|---------|------------|---------------------|
| Bulk Trailer | CTF-273 | TRB-769 | Silva, Manuel |
| Cement Pump | CPF-058 | TRH-1140 | Mcneal, Lawrence |
| Light Duty Pickups | LDV-063 | | Castillo, Francisco |

Timing

| Event | Date/Time |
|-----------------|-----------------|
| Call Out | 4/28/2021 07:30 |
| Depart Facility | 4/28/2021 09:25 |
| On Location | 4/28/2021 10:55 |
| Rig Up Iron | 4/28/2021 11:15 |
| Job Started | 4/28/2021 14:22 |
| Job Completed | 4/28/2021 15:50 |
| Rig Down Iron | 4/28/2021 16:00 |
| Depart Location | 4/28/2021 17:00 |

General Job Information

| Metrics | Value |
|-------------------------|------------|
| Well Fluid Density | 8.8 lb/gal |
| Well Fluid Type | WBM |
| Rig Circulation Vol | 300 bbls |
| Rig Circulation Time | 0.5 hours |
| Calculated Displacement | 250 bbls |
| Actual Displacement | 250 bbls |
| Total Spacer to Surface | 0 bbls |
| Total CMT to Surface | 0 bbls |
| Well Topped Out | No |

Job Details

| Metrics | Value |
|--------------------------------|------------|
| Flare Prior to Job | No |
| Flare During Job | No |
| Flare at End of Job | No |
| Well Full Prior to Job | Yes |
| Well Fluid Density Into Well | 8.8 lb/gal |
| Well Fluid Density Out of Well | 8.8 lb/gal |

Job Details (cont.)

| Metrics | Value |
|---------|--------|
| BHCT | 87 °F |
| BHST | 116 °F |

Water Analysis

| Metrics | Value | Recommended |
|------------------|-----------|-------------|
| Water Source | Flat Tank | |
| Temperature | 60 °F | 50-80 °F |
| pH Level | 7 | 5.5-8.5 |
| Chlorides | 0 mg/L | 0-3000 mg/L |
| Total Alkalinity | 240 | 0-1000 |
| Total Hardness | 250 mg/L | 0-500 mg/L |
| Carbonates | 0 mg/L | 0-100 mg/L |
| Sulfates | 200 mg/L | 0-1500 mg/L |
| Potassium | 250 mg/L | 0-3000 mg/L |
| Iron | 0 mg/L | 0-300 mg/L |

Circulation

| Lost Circulation Experienced |
|------------------------------|
| No |

Job Execution Information

| Fluid | Product | Function | Density (lb/gal) | Yield (ft ³ /sk) | Water Rq. (gal/sk) | Water Rq. (gal/bbl) | Volume (sks) | Volume (bbl) | Designed Top (ft) |
|-------|--------------|-------------------|------------------|-----------------------------|--------------------|---------------------|--------------|--------------|-------------------|
| 1 | Water | Flush | 8.34 | | | 42.00 | | 40.00 | 1760 |
| 2 | Lead Cement | Lead | 12.30 | 2.36 | 13.32 | | 100.00 | 42.07 | 2238 |
| 3 | Tail Cement | Tail | 12.80 | 2.10 | 11.34 | | 121.00 | 45.19 | 2738 |
| 4 | Displacement | DisplacementFinal | 8.34 | | | 42.00 | | 250.00 | 0 |

Job Fluid Details

| Fluid | Type | Fluid | Product | Function | Conc. | Uom |
|-------|------|-------------|-------------------|-----------------|--------|-------|
| 2 | Lead | Lead Cement | ASTM TYPE III | Cement | 100.00 | % |
| 2 | Lead | Lead Cement | A-10 | Accelerator | 5.00 | %BWOB |
| 2 | Lead | Lead Cement | A-2 | Accelerator | 2.00 | lb/sk |
| 2 | Lead | Lead Cement | A-7P | Accelerator | 2.00 | lb/sk |
| 2 | Lead | Lead Cement | FP-24 | Defoamer | 0.30 | %BWOB |
| 2 | Lead | Lead Cement | IntegraSeal PHENO | LostCirculation | 3.00 | lb/sk |
| 2 | Lead | Lead Cement | IntegraSeal POLI | LostCirculation | 0.25 | lb/sk |
| 3 | Tail | Tail Cement | ASTM TYPE III | Cement | 100.00 | % |
| 3 | Tail | Tail Cement | A-10 | Accelerator | 5.00 | %BWOB |
| 3 | Tail | Tail Cement | A-2 | Accelerator | 2.00 | lb/sk |
| 3 | Tail | Tail Cement | A-7P | Accelerator | 2.00 | lb/sk |
| 3 | Tail | Tail Cement | FP-24 | Defoamer | 0.30 | %BWOB |
| 3 | Tail | Tail Cement | IntegraSeal PHENO | LostCirculation | 3.00 | lb/sk |
| 3 | Tail | Tail Cement | IntegraSeal POLI | LostCirculation | 0.25 | lb/sk |

Job Logs

| Line | Event | Date (MM/DD/YY) | Time (HH:MM) | Density (lb/gal) | Pump Rate (bpm) | Pump Volume (bbls) | Pipe Pressure (psi) | Comment |
|------|----------------|-----------------|--------------|------------------|-----------------|--------------------|---------------------|--|
| 1 | CALLOUT | 4/28/2021 | 07:30 | | | | | ON LOCATION AT NOON |
| 2 | LEAVE YARD | 4/28/2021 | 09:25 | | | | | CREW LEAVE THE YARD |
| 3 | ON LOCATION | 4/28/2021 | 10:55 | | | | | CREW ON LOCATION |
| 4 | RIG UP | 4/28/2021 | 11:15 | | | | | RIG UP MEETING, RIG UP |
| 5 | SAFETY MEETING | 4/28/2021 | 13:30 | | | | | PRE-JOB SAFETY MEETING |
| 6 | PRESSURE TEST | 4/28/2021 | 14:19 | | | | 3800 | PRESSURE TEST LINES |
| 7 | PUMP SPACER | 4/28/2021 | 14:22 | 8.34 | 8 | 40 | 483 | WATER SPACER |
| 8 | LEAD CEMENT | 4/28/2021 | 14:30 | 12.3 | 7 | 42 | 567 | LEAD 100 SKS / 42 BBLS AT 12.3 PPG, TOP OF LEAD 1,774' |
| 9 | TAIL CEMENT | 4/28/2021 | 14:38 | 12.8 | 7 | 45 | 583 | TAIL 121 SKS / 45 BBLS AT 12.8 PPG, TOP OF TAIL 2,527 |
| 10 | SHUTDOWN | 4/28/2021 | 14:44 | | | | | SHUTDOWN, DROP PLUG |
| 11 | DISPLACEMENT | 4/28/2021 | 14:45 | 8.34 | 9 | 50 | 514 | DISPLACEMENT WATER |
| 12 | DISPLACEMENT | 4/28/2021 | 14:51 | 8.34 | 9 | 50 | 525 | 100 BBLS DISPLACEMENT PUMPED |
| 13 | DISPLACEMENT | 4/28/2021 | 14:57 | 8.34 | 9.7 | 50 | 589 | 150 BBLS DISPLACEMENT PUMPED |
| 14 | DISPLACEMENT | 4/28/2021 | 15:02 | 8.34 | 9.7 | 50 | 761 | 200 BBLS DISPLACEMENT PUMPED |
| 15 | DISPLACEMENT | 4/28/2021 | 15:07 | 8.34 | 9.7 | 40 | | 240 BBLS DISPLACEMENT PUMPED |
| 16 | SLOW RATE | 4/28/2021 | 15:11 | 8.34 | 3 | 10 | 469 | SLOW RATE LAST 10 BBLS |
| 17 | LAND PLUG | 4/28/2021 | 15:14 | | | | 965 | LAND PLUG, FULL RETURNS |
| 18 | CHECK FLOATS | 4/28/2021 | 15:17 | | | | | FLOATS HELD, 1 BBL FLOW BACK |
| 19 | CASING TEST | 4/28/2021 | 15:18 | | | | 300 | CASING TEST 300 PSI FOR 30 MINUTES |
| 20 | RIG DOWN | 4/28/2021 | 16:00 | | | | | RIG DOWN MEETING, RIG DOW |
| 21 | LEAVE LOCATION | 4/28/2021 | 17:00 | | | | | CREW LEAVE LOCATION |

Pump Diagrams



JobMaster Program Version 5.01C1

Job Number: 76798

Customer: TERRA

Well Name: RG 342-18

TERRA RG 342-18 INTERMEDIATE

