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# **Terra Energy Partners, LLC**

## **LONG STRING POST JOB REPORT**

**FED RG 512-18-297 05-103-12580**  
**S:13 T:2S R:98W Rio Blanco CO**

CallSheet #: 91184  
Proposal #: 75895



**LONG STRING Post Job Report**

**Attention:** Mr. Dustin Childers | (936) 524-8828 | dchilders@terraep.com  
Terra Energy Partners, LLC  
4828 Loop Central Dr., Suite 900 | Houston, TX 77081

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Dear Mr. Dustin Childers,

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,

**Addison Kneale**

Field Engineer I | (904) 228-9560 | addison.kneale@americacementing.com

**Field Office**      28730 US-6, Rifle, CO 81650  
Phone: (970) 657-1187

## Job Details & Summary

### Geometry

| Type      | Function | OD (in) | ID (in) | Weight (lb/ft) | Thread | Top (ft) | Bottom (ft) | Excess (%) |
|-----------|----------|---------|---------|----------------|--------|----------|-------------|------------|
| Casing    | Outer    | 9.625   | 8.921   | 36             | n/a    | 0        | 3158        | 0          |
| Open Hole | Outer    | n/a     | 8.75    | n/a            | n/a    | 3141     | 8388        | 45         |
| Open Hole | Outer    | n/a     | 8.75    | n/a            | n/a    | 8388     | 11116       | 45         |
| Casing    | Inner    | 4.5     | 4       | 11.6           | n/a    | 0        | 11110       | 0          |

### Equipment / People

| Unit Type            | Unit    | Power Unit | Employee #1        |
|----------------------|---------|------------|--------------------|
| Cement Trailer Float | CTF-340 | TRC-249    | Steven Richey      |
| Field Storage Silo   | FSS-438 |            |                    |
| Field Storage Silo   | FSS-470 |            |                    |
| Light Duty Vehicles  | LDV-157 |            | Francisco Castillo |
| Light Duty Vehicles  | LDV-144 |            | Darcy Belley       |
| Light Duty Vehicles  | LDV-088 |            | Danny Ridgeway     |

### Timing

| Event           | Date/Time        |
|-----------------|------------------|
| ERTS            | 04/29/2024 20:00 |
| Call Out        | 4/29/2024 16:00  |
| Depart Facility | 4/29/2024 17:58  |
| On Location     | 4/29/2024 19:00  |
| Rig Up Iron     | 4/29/2024 19:30  |
| Job Started     | 4/29/2024 23:27  |
| Job Completed   | 4/30/2024 02:01  |
| Rig Down Iron   | 4/30/2024 02:15  |
| Depart Location | 4/30/2024 03:30  |

### General Job Information

| Metrics                 | Value       |
|-------------------------|-------------|
| Well Fluid Density      | 10.2 lb/gal |
| Well Fluid Type         | WBM         |
| Rig Circulation Vol     | 1200 bbls   |
| Rig Circulation Time    | 2 hours     |
| Calculated Displacement | 172 bbls    |
| Actual Displacement     | 172 bbls    |
| Total Spacer to Surface | 0 bbls      |
| Total CMT to Surface    | 0 bbls      |
| Well Topped Out         | N/A         |

### Job Details

| Metrics                        | Value       |
|--------------------------------|-------------|
| Well Full Prior to Job         | No          |
| Well Fluid Density Into Well   | 10.2 lb/gal |
| Well Fluid Density Out of Well | 10.2 lb/gal |

### Job Details (cont.)

| Metrics | Value  |
|---------|--------|
| BHCT    | 206 °F |
| BHST    | 271 °F |

### Water Analysis

| Metrics          | Value    | Recommended |
|------------------|----------|-------------|
| Water Source     | None     |             |
| Temperature      | 51 °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 | Losses into Spacer | Losses into Cement | Losses into Displacement |
|------------------------------|--------------------|--------------------|--------------------------|
| No                           |                    |                    |                          |

### Job Execution Information

| Fluid | Product      | Function          | Density (lb/gal) | Yield (ft <sup>3</sup> /sk) | Water Rq. (gal/sk) | Water Rq. (gal/bbl) | Volume (sks) | Volume (bbl) | Designed Top (ft) |
|-------|--------------|-------------------|------------------|-----------------------------|--------------------|---------------------|--------------|--------------|-------------------|
| 1     | Water        | Flush             | 8.34             |                             |                    | 42.00               |              | 10.00        | 6699              |
| 2     | Lead         | Lead              | 12.70            | 2.13                        | 11.42              |                     | 778.00       | 294.90       | 6825              |
| 3     | Tail         | Tail              | 13.50            | 2.01                        | 9.72               |                     | 601.00       | 215.06       | 8388              |
| 4     | Displacement | DisplacementFinal | 8.34             |                             |                    | 42.00               |              | 172.00       | 0                 |

### Job Fluid Details

| Fluid | Type | Fluid | Product            | Function              | Conc.  | Uom   |
|-------|------|-------|--------------------|-----------------------|--------|-------|
| 2     | Lead | Lead  | ASTM TYPE IL       | Cement                | 100.00 | %     |
| 2     | Lead | Lead  | A-2                | Accelerator           | 0.10   | %BWOB |
| 2     | Lead | Lead  | FL-66              | FluidLoss             | 0.20   | %BWOB |
| 2     | Lead | Lead  | GW-86              | Viscosifier           | 0.10   | %BWOB |
| 2     | Lead | Lead  | IntegraSeal PHENO  | LostCirculation       | 3.00   | lb/sk |
| 2     | Lead | Lead  | IntegraSeal POLI   | LostCirculation       | 0.25   | lb/sk |
| 2     | Lead | Lead  | R-3                | Retarder              | 0.60   | %BWOB |
| 2     | Lead | Lead  | STATIC FREE        | Other                 | 0.01   | lb/sk |
| 2     | Lead | Lead  | XCem-1009          | Extender              | 10.00  | lb/sk |
| 2     | Lead | Lead  | XCem-308           | Defoamer              | 0.30   | %BWOB |
| 3     | Tail | Tail  | CLASS G            | Cement                | 70.00  | %     |
| 3     | Tail | Tail  | FLY ASH (POZZOLAN) | Extender              | 30.00  | %     |
| 3     | Tail | Tail  | BENTONITE          | Viscosifier           | 8.00   | %BWOB |
| 3     | Tail | Tail  | FL-24              | FluidLoss             | 0.40   | %BWOB |
| 3     | Tail | Tail  | IntegraSeal PHENO  | LostCirculation       | 3.00   | lb/sk |
| 3     | Tail | Tail  | R-3                | Retarder              | 0.30   | %BWOB |
| 3     | Tail | Tail  | S-8                | StrengthRetrogression | 26.00  | %BWOB |
| 3     | Tail | Tail  | XCem-308           | Defoamer              | 0.30   | %BWOB |

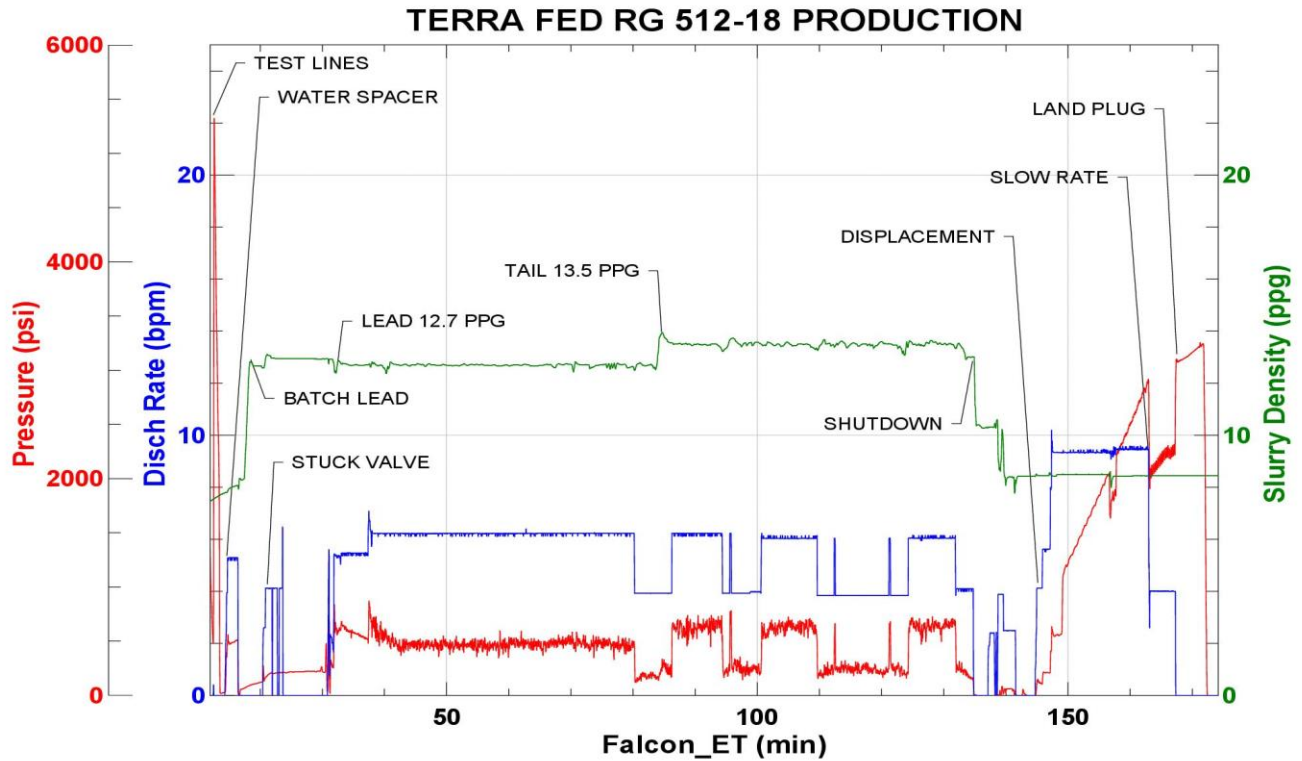
## Job Logs

| Line | Event          | Date (MM/DD/YY) | Time (HH:MM) | Density (lb/gal) | Pump Rate (bpm) | Pump Volume (bbls) | Pipe Pressure (psi) | Comment   |
|------|----------------|-----------------|--------------|------------------|-----------------|--------------------|---------------------|---|
| 1    | CALLOUT        | 4/29/2024       | 16:00        |                  |                 |                    |                     | ON LOCATION AT 20:00 HRS                              |
| 2    | LEAVE THE YARD | 4/29/2024       | 17:50        |                  |                 |                    |                     | CREW LEAVE THE YARD                                   |
| 3    | ON LOCATION    | 4/29/2024       | 19:00        |                  |                 |                    |                     | CREW ON LOCATION                                      |
| 4    | RIG UP         | 4/29/2024       | 19:30        |                  |                 |                    |                     | RIG UP MEETING, RIG UP                                |
| 5    | SAFETY MEETING | 4/29/2024       | 22:45        |                  |                 |                    |                     | PRE-JOB SAFETY MEETING                                |
| 6    | PRESSURE TEST  | 4/29/2024       | 23:23        |                  |                 |                    | 5441                | PRESSURE TEST LINES                                   |
| 7    | WATER SPACER   | 4/29/2024       | 23:27        | 8.34             | 5               | 10                 | 507                 | WATER SPACER  |
| 8    | LEAD CEMENT    | 4/29/2024       | 23:31        | 12.7             | 6               | 50                 | 523                 | LEAD 778 SKS/295 BBLS AT 12.7 PPG, TOP OF LEAD 1,856' |
| 9    | LEAD CEMENT    | 4/29/2024       | 23:53        | 12.7             | 6               | 50                 | 473                 | 100 BBLS LEAD CEMENT PUMPED                           |
| 10   | LEAD CEMENT    | 4/30/2024       | 00:02        | 12.7             | 6               | 50                 | 471                 | 150 BBLS LEAD CEMENT PUMPED                           |
| 11   | LEAD CEMENT    | 4/30/2024       | 00:10        | 12.7             | 6               | 50                 | 461                 | 200 BBLS LEAD CEMENT PUMPED                           |
| 12   | LEAD CEMENT    | 4/30/2024       | 00:18        | 12.7             | 6               | 50                 | 495                 | 250 BBLS LEAD CEMENT PUMPED                           |
| 13   | LEAD CEMENT    | 4/30/2024       | 00:26        | 12.7             | 6               | 45                 | 475                 | 295 BBLS LEAD CEMENT PUMPED                           |
| 14   | TAIL CEMENT    | 4/30/2024       | 00:37        | 13.5             | 6               | 50                 | 711                 | TAIL 601 SKS/215 BBLS AT 13.5 PPG, TOP OF TAIL 7,179' |
| 15   | TAIL CEMENT    | 4/30/2024       | 00:46        | 13.5             | 6               | 50                 | 645                 | 100 BBLS TAIL CEMENT PUMPED                           |
| 16   | TAIL CEMENT    | 4/30/2024       | 00:57        | 13.5             | 6               | 50                 | 651                 | 150 BBLS TAIL CEMENT PUMPED                           |
| 17   | TAIL CEMENT    | 4/30/2024       | 01:05        | 13.5             | 6               | 65                 | 627                 | 215 BBLS TAIL CEMENT PUMPED                           |
| 18   | SHUTDOWN       | 4/30/2024       | 01:29        |                  |                 |                    |                     | WASH PUMP AND LINES, DROP PLUG                        |
| 19   | DISPLACEMENT   | 4/30/2024       | 01:39        | 8.4              | 9               | 50                 | 1377                | DISPLACEMENT KCL WATER                                |
| 20   | DISPLACEMENT   | 4/30/2024       | 01:45        | 8.4              | 9.5             | 50                 | 2327                | 100 BBLS DISPLACEMENT PUMPED                          |
| 21   | DISPLACEMENT   | 4/30/2024       | 01:51        | 8.4              | 9.5             | 62                 | 2913                | 162 BBLS DISPLACEMENT PUMPED                          |
| 22   | SLOW RATE      | 4/30/2024       | 01:57        | 8.4              | 4               | 10                 | 2237                | SLOW RATE   |
| 23   | LAND PLUG      | 4/30/2024       | 02:01        |                  |                 |                    | 3075                | LAND PLUG, FULL RETURNS                               |
| 24   | CHECK FLOATS   | 4/30/2024       | 02:05        |                  |                 |                    |                     | FLOATS HELD, 2 BBLS FLOW BACK                         |
| 25   | RIG DOWN       | 4/30/2024       | 02:15        |                  |                 |                    |                     | RIG DOWN MEETING, RIG DOWN                            |
| 26   | LEAVE LOCATION | 4/30/2024       | 03:30        |                  |                 |                    |                     | CREW LEAVE LOCATION                                   |

# Pump Diagrams



JobMaster Program Version 5.01C1  
Job Number: 91184  
Customer: TERRA  
Well Name: FED RG 512-18



Job Start: Monday, April 29, 2024