



Terra Energy Partners, LLC

SURFACE POST JOB REPORT

RG 443-7-297 05-103-12464
S:18 T:2S R:97W Rio Blanco CO

CallSheet #: 76238
Proposal #: 51882



SURFACE 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@americacementing.com

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

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1 Job Details & Summary

Geometry

| Type | Function | OD (in) | ID (in) | Weight (lb/ft) | Thread | Top (ft) | Bottom (ft) | Excess (%) |
|-----------|----------|---------|---------|----------------|----------|----------|-------------|------------|
| Open Hole | Outer | n/a | 17.5 | n/a | n/a | 0 | 1434 | 40 |
| Casing | Inner | 13.375 | 12.615 | 54.5 | Buttress | 0 | 1438.61 | 0 |

Equipment / People

| Unit Type | Unit | Power Unit | Employee #1 | Employee #2 | Mileage |
|--------------------|----------|------------|---------------------|----------------|---------|
| Silo | CTS-438 | | | | |
| Bulk Trailer | CTF-280 | | Richey, Steven | | 100 |
| Cement Pump | CPF-058 | TRH-957 | Mcneal, Lawrence | Medina, Martin | 100 |
| Light Duty Pickups | LDV-5429 | | Castillo, Francisco | | 100 |

Timing

| Event | Date/Time |
|-----------------|----------------|
| Call Out | 3/2/2021 05:00 |
| Depart Facility | 3/2/2021 05:55 |
| On Location | 3/2/2021 07:15 |
| Rig Up Iron | 3/2/2021 07:30 |
| Job Started | 3/2/2021 15:43 |
| Job Completed | 3/2/2021 17:03 |
| Rig Down Iron | 3/2/2021 17:15 |
| Depart Location | 3/2/2021 18:30 |

General Job Information

| Metrics | Value |
|-------------------------|------------|
| Well Fluid Density | 9.4 lb/gal |
| Well Fluid Type | WBM |
| Rig Circulation Vol | 300 bbls |
| Rig Circulation Time | 0.5 hours |
| Calculated Displacement | 216.7 bbls |
| Actual Displacement | 216.7 bbls |
| Total Spacer to Surface | 40 bbls |
| Total CMT to Surface | 50 bbls |
| Well Topped Out | No |

Well Fluid Details

| Metrics | Value |
|-------------------|-------|
| Plastic Viscosity | 12 |
| Yield Point | 20 |
| 10 sec. SGS | 8 |
| 10 min. SGS | 15 |
| 30 min. SGS | 20 |
| Filtrate | 10 |
| Flow Line Temp. | 80 |

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 | 9.4 lb/gal |
| Well Fluid Density Out of Well | 9.4 lb/gal |

Job Details (cont.)

| Metrics | Value |
|---------|-------|
| BHCT | 74 °F |
| BHST | 90 °F |

Circulation

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

Job Execution Information

| Job | Fluid | Product | Function | Density (lb/gal) | Yield (ft ³ /sk) | Water Rq. (gal/sk) | Water Rq. (gal/bbl) | Volume (sks) | Volume (bbl) | Top (ft) |
|-----|-------|----------------|-------------------|------------------|-----------------------------|--------------------|---------------------|--------------|--------------|----------|
| 1 | 1 | Water | Flush | 8.34 | | | 42.00 | | 40.00 | 0 |
| 1 | 2 | Primary Cement | Primary | 12.30 | 2.34 | 13.42 | | 568.00 | 236.58 | 0 |
| 1 | 3 | Displacement | DisplacementFinal | 8.34 | | | 42.00 | | 216.70 | 0 |

Job Fluid Details

| Job | Fluid | Type | Fluid | Product | Function | Conc. | Uom |
|-----|-------|---------|----------------|------------------|-----------------|--------|-------|
| 1 | 2 | Primary | Primary Cement | ASTM TYPE III | Cement | 100.00 | % |
| 1 | 2 | Primary | Primary Cement | A-10 | Accelerator | 5.00 | %BWOB |
| 1 | 2 | Primary | Primary Cement | A-2 | Accelerator | 2.00 | lb/sk |
| 1 | 2 | Primary | Primary Cement | A-7P | Accelerator | 2.00 | lb/sk |
| 1 | 2 | Primary | Primary Cement | FP-24 | Defoamer | 0.30 | %BWOB |
| 1 | 2 | Primary | Primary Cement | IntegraSeal POLI | LostCirculation | 0.25 | lb/sk |

2 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 | 3/2/2021 | 05:00 | | | | | ON LOC 09:00 HRS, CREW TEMPS, JAVI-98.1, LONNY-97.9, STEVE-98.3, MARTIN-98.5 |
| 2 | LEAVE YARD | 3/2/2021 | 05:55 | | | | | CREW LEAVE THE YARD |
| 3 | ON LOCATION | 3/2/2021 | 07:15 | | | | | ON LOCATION |
| 4 | RIG UP | 3/2/2021 | 07:30 | | | | | RIG UP MEETING, RIG UP |
| 5 | SAFETY MEETING | 3/2/2021 | 15:15 | | | | | PRE-JOB SAFETY MEETING |
| 6 | PRESSURE TEST | 3/2/2021 | 15:41 | | | | 3800 | PRESSURE TEST LINES |
| 7 | PUMP SPACER | 3/2/2021 | 15:43 | 8.34 | 6.5 | 40 | 275 | WATER SPACER |
| 8 | PUMP CEMENT | 3/2/2021 | 15:51 | 12.3 | 7 | 50 | 497 | 568 SKS / 237 BBLs AT 12.3 PPG |
| 9 | PUMP CEMENT | 3/2/2021 | 15:59 | 12.3 | 7 | 50 | 501 | 100 BBLs CEMENT PUMPED |
| 10 | PUMP CEMENT | 3/2/2021 | 16:06 | 12.3 | 7 | 50 | 507 | 150 BBLs CEMENT PUMPED |
| 11 | PUMP CEMENT | 3/2/2021 | 16:13 | 12.3 | 7 | 87 | 503 | 237 BBLs CEMENT PUMPED |
| 12 | SHUTDOWN | 3/2/2021 | 16:31 | | | | | SHUTDOWN, DROP PLUG |
| 13 | DISPLACEMENT | 3/2/2021 | 16:33 | 8.34 | 8 | 50 | 356 | DISPLACEMENT WATER |
| 14 | DISPLACEMENT | 3/2/2021 | 16:39 | 8.34 | 8 | 50 | 431 | 100 BBLs DISPLACEMENT PUMPED |
| 15 | DISPLACEMENT | 3/2/2021 | 16:45 | 8.34 | 8 | 50 | 577 | 150 BBLs DISPLACEMENT PUMPED |
| 16 | DISPLACEMENT | 3/2/2021 | 16:51 | 8.34 | 8 | 56.7 | 563 | 206.7 BBLs DISPLACEMENT PUMPED |
| 17 | DISPLACEMENT | 3/2/2021 | 16:59 | 8.34 | 3 | 10 | 337 | SLOW RATE |
| 18 | LAND PLUG | 3/2/2021 | 17:03 | | | | 657 | LAND PLUG, 50 BBLs CMT TO SURFACE |
| 19 | CHECK FLOATS | 3/2/2021 | 17:06 | | | | | FLOATS HELD, 1 BBL FLOW BACK |
| 20 | RIG DOWN | 3/2/2021 | 17:15 | | | | | RIG DOWN MEETING, RIG DOWN |
| 21 | LEAVE LOCAITON | 3/2/2021 | 18:30 | | | | | CREW LEAVE LOCATION |

3 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 |

4 Pump Diagrams

JobMaster Program Version 5.01C1
 Job Number: 76238
 Customer: TERRA
 Well Name: RG 443-7

