



Terra Energy Partners, LLC

SURFACE POST JOB REPORT

Leverich SR 21-24 05-045-24572
S:13 T:7S R:94W Garfield CO

CallSheet #: 87646
Proposal #: 69986



SURFACE 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

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,

Krystal Schell

Field Engineer I | (719) 992-1830 | krystal.schell@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 | 20 | 19.5 | 53 | n/a | 0 | 80 | 0 |
| Open Hole | Outer | n/a | 13.5 | n/a | n/a | 80 | 500 | 16 |
| Open Hole | Outer | n/a | 13.5 | n/a | n/a | 500 | 1138 | 16 |
| Casing | Inner | 9.625 | 8.921 | 36 | n/a | 0 | 1174 | CREW DEPARTS RIFLE, CO YARD FOR LOCATION |

Equipment / People

| Unit Type | Unit | Power Unit | Employee #1 |
|----------------------|---------|------------|---------------|
| Cement Trailer Float | CTF-263 | TRC-424 | Hansen, James |
| Light Duty Vehicles | LDV-082 | | Kelsey, John |
| Light Duty Vehicles | LDV-088 | | Bonin, Ryan |
| Cement Pump Float | CPF-012 | TRH-677 | Brady, Shawn |

Timing

| Event | Date/Time |
|-----------------|------------------|
| ERTS | 00/06/2023 00:00 |
| Call Out | 7/6/2023 05:00 |
| Depart Facility | 7/6/2023 09:00 |
| On Location | 7/6/2023 10:00 |
| Rig Up Iron | 7/6/2023 10:30 |
| Job Started | 7/6/2023 15:15 |
| Job Completed | 7/6/2023 16:51 |
| Rig Down Iron | 7/6/2023 17:00 |
| Depart Location | 7/6/2023 18:00 |

General Job Information

| Metrics | Value |
|-------------------------|------------|
| Well Fluid Density | 9.1 lb/gal |
| Well Fluid Type | WBM |
| Rig Circulation Vol | 300 bbls |
| Rig Circulation Time | 1 hours |
| Calculated Displacement | 87.5 bbls |
| Actual Displacement | 87.5 bbls |
| Total Spacer to Surface | 20 bbls |
| Total CMT to Surface | 35 bbls |
| Well Topped Out | n/a |

Job Details

| Metrics | Value |
|--------------------------------|------------|
| Flare Prior to Job | No |
| Flare Prior to Job | - units |
| Flare During Job | No |
| Flare During Job | - units |
| Flare at End of Job | No |
| Flare at End of Job | - units |
| Well Full Prior to Job | yes |
| Well Fluid Density Into Well | 9.1 lb/gal |
| Well Fluid Density Out of Well | 9.1 lb/gal |

Job Details (cont.)

| Metrics | Value |
|---------|-------|
| BHCT | 81 °F |
| BHST | 99 °F |

Water Analysis

| Metrics | Value | Recommended |
|------------------|------------------|-------------|
| Water Source | Upright Rig Tank | |
| Temperature | 65 °F | 50-80 °F |
| pH Level | 6 | 5.5-8.5 |
| Chlorides | 0 mg/L | 0-3000 mg/L |
| Total Alkalinity | 180 | 0-1000 |
| Total Hardness | 400 mg/L | 0-500 mg/L |
| Carbonates | 0 mg/L | 0-100 mg/L |
| Sulfates | 200 mg/L | 0-1500 mg/L |
| Potassium | 0 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 | | 20.00 | 0 |
| 2 | Lead | Lead | 12.30 | 2.31 | 13.15 | | 158.00 | 64.94 | 0 |
| 3 | Tail | Tail | 12.80 | 2.03 | 11.15 | | 188.00 | 68.07 | 500 |
| 4 | Water | DisplacementFinal | 8.34 | | | 42.00 | | 85.00 | 0 |

Job Fluid Details

| Fluid | Type | Fluid | Product | Function | Conc. | Uom |
|-------|------|-------|------------------|-----------------|--------|-------|
| 2 | Lead | Lead | ASTM TYPE IL | Cement | 100.00 | % |
| 2 | Lead | Lead | A-10 | Accelerator | 5.00 | %BWOB |
| 2 | Lead | Lead | A-2 | Accelerator | 3.00 | lb/sk |
| 2 | Lead | Lead | A-7P | Accelerator | 2.00 | lb/sk |
| 2 | Lead | Lead | FP-24 | Defoamer | 0.30 | %BWOB |
| 2 | Lead | Lead | IntegraSeal POLI | LostCirculation | 0.25 | lb/sk |
| 2 | Lead | Lead | STATIC FREE | Other | 0.01 | lb/sk |
| 3 | Tail | Tail | ASTM TYPE IL | Cement | 100.00 | % |
| 3 | Tail | Tail | A-10 | Accelerator | 5.00 | %BWOB |
| 3 | Tail | Tail | A-2 | Accelerator | 2.00 | lb/sk |
| 3 | Tail | Tail | A-7P | Accelerator | 2.00 | lb/sk |
| 3 | Tail | Tail | FP-24 | Defoamer | 0.30 | %BWOB |
| 3 | Tail | Tail | IntegraSeal POLI | LostCirculation | 0.25 | lb/sk |
| 3 | Tail | Tail | STATIC FREE | Other | 0.01 | lb/sk |

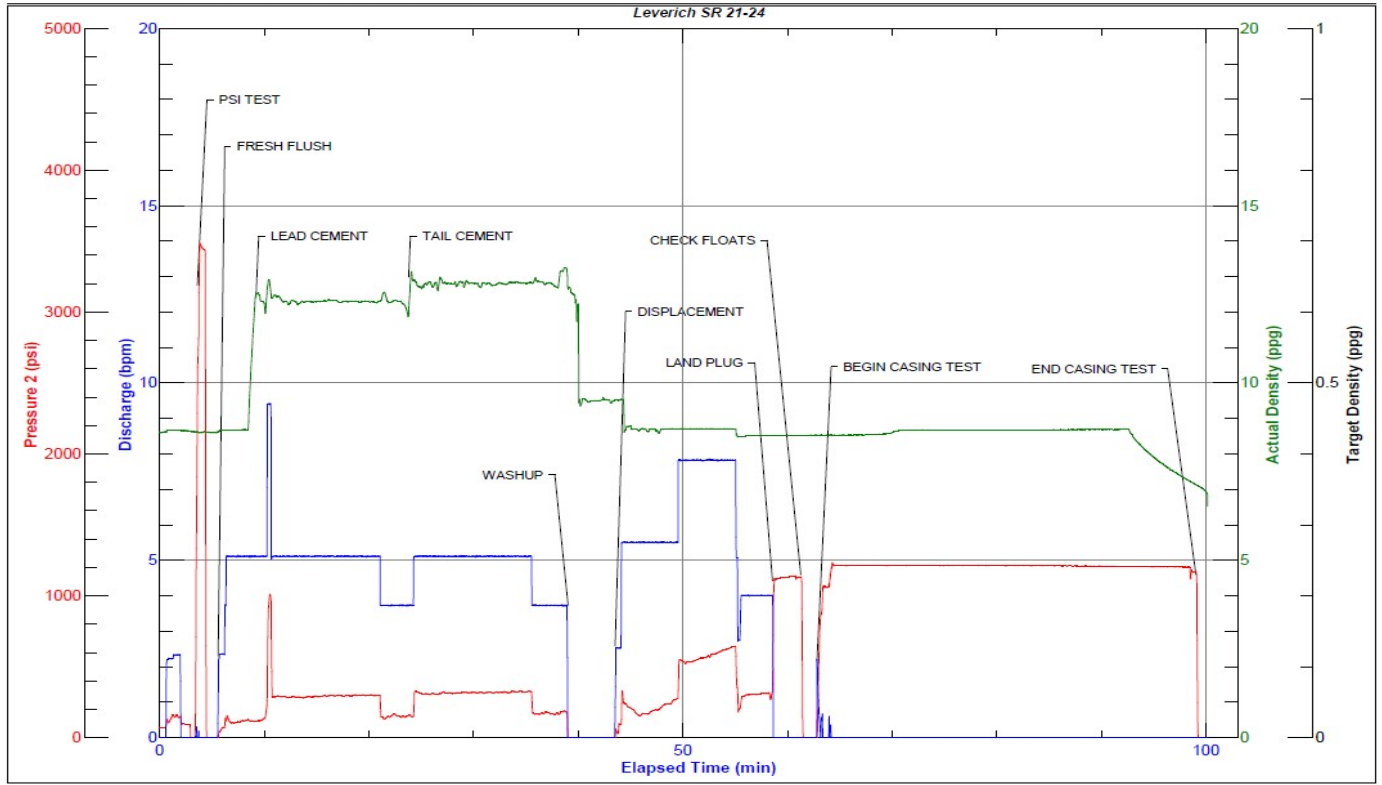
Job Logs

| Line | Event | Date (MM/DD/YY) | Time (HH:MM) | Density (lb/gal) | Pump Rate (bpm) | Pump Volume (bbls) | Pipe Pressure (psi) | Comment |
|------|--------------------|-----------------|--------------|------------------|-----------------|--------------------|---------------------|--|
| 1 | CALLOUT | 7/6/2023 | 05:00 | | | | | CREW CALLED TO PREPARE FOR A SURFACE CEMENT JOB. RTS IS 10:00 |
| 2 | SAFETY MEETING | 7/6/2023 | 08:50 | | | | | JOURNEY MANAGEMENT MEETING |
| 3 | DEPART YARD | 7/6/2023 | 09:00 | | | | | CREW DEPARTS RIFLE, CO YARD FOR LOCATION |
| 4 | ARRIVE ON LOCATION | 7/6/2023 | 10:00 | | | | | ARRIVE ON LOCATION, VERIFY JOB PROCEDURES WITH CUSTOMER |
| 5 | SAFETY MEETING | 7/6/2023 | 10:10 | | | | | RIG UP MEETING |
| 6 | SPOT UNITS | 7/6/2023 | 10:20 | | | | | SPOT ALL EQUIPMENT FOR RIG UP |
| 7 | RIG UP | 7/6/2023 | 10:30 | | | | | RIG UP ALL EQUIPMENT |
| 8 | STANDBY | 7/6/2023 | 11:30 | | | | | CREW ON STANDBY WHILE RIG RUNS CASING |
| 9 | SAFETY MEETING | 7/6/2023 | 15:00 | | | | | PRE JOB MEETING WITH ALL CREWS |
| 10 | LOAD LINES | 7/6/2023 | 15:15 | 8.34 | | 3 | | LOAD LINES FOR PSI TEST |
| 11 | PRESSURE TEST | 7/6/2023 | 15:18 | 8.34 | | 1 | | PSI TEST PUMP AND LINES TO CEMENT HEAD |
| 12 | FRESH FLUSH | 7/6/2023 | 15:19 | 8.34 | | 20 | | 20 BBLS FRESH FLUSH |
| 13 | LEAD CEMENT | 7/6/2023 | 15:23 | 12.3 | | 10 | | 65 BBLS Lead CMT – 12.3 # 2.31 Y 13.2 MW 158 sks 10 BBLS AWAY |
| 14 | LEAD CEMENT | 7/6/2023 | 15:30 | 12.3 | | 20 | | 30 BBLS AWAY |
| 15 | LEAD CEMENT | 7/6/2023 | 15:38 | 12.3 | | 35 | | 65 BBLS AWAY SWAP TO TAIL CEMENT |
| 16 | TAIL CEMENT | 7/6/2023 | 15:39 | 12.8 | | 10 | | 68 BBLS Tail CMT – 12.8 # 2.05 Y 11.1 MW 188 sks 10 BBLS AWAY |
| 17 | TAIL CEMENT | 7/6/2023 | 15:43 | 12.8 | | 20 | | 30 BBLS AWAY |
| 18 | TAIL CEMENT | 7/6/2023 | 15:48 | 12.8 | | 38 | | 68 BBLS AWAY SHUTDOWN FOR WASHUP |
| 19 | WASHUP | 7/6/2023 | 15:50 | | | | | WASHUP PUMP MIX SYSTEM ON TOP OF PLUG, DROP PLUG |
| 20 | DISPLACEMENT | 7/6/2023 | 15:58 | 8.34 | 5.5 | 10 | 200 | SEND PLUG AND BEGIN DISPLACEMENT 10 BBLS AWAY |
| 21 | DISPLACEMENT | 7/6/2023 | 16:01 | 8.34 | 5.5 | 10 | 237 | 20 BBLS AWAY |
| 22 | DISPLACEMENT | 7/6/2023 | 16:05 | 8.34 | 7.8 | 20 | 572 | 40 BBLS AWAY |
| 23 | DISPLACEMENT | 7/6/2023 | 16:07 | 8.34 | 4 | 30 | 293 | 70 BBLS AWAY |
| 24 | LAND PLUG | 7/6/2023 | 16:12 | 8.34 | 4 | 17.5 | 350 | LAND PLUG TO 1238 PSI, ESTIMATED 35 BBLS CEMENT TO SURFACE |
| 25 | CHECK FLOATS | 7/6/2023 | 16:15 | | | | | CHECK FLOATS, FLOATS HELD WITH .5 BBLS BACK |
| 26 | CASING TEST | 7/6/2023 | 16:18 | 8.34 | 1 | 0.5 | 1247 | 30 MIN CASING TEST STARTING AT 1247 PSI AND ENDING AT 1238 PSI |
| 27 | CHECK FLOATS | 7/6/2023 | 16:51 | | | | | CHECK FLOATS, FLOATS HELD WITH .5 BBLS BACK |
| 28 | SAFETY MEETING | 7/6/2023 | 16:55 | | | | | RIG DOWN MEETING |
| 29 | RIG DOWN | 7/6/2023 | 17:00 | | | | | RIG DOWN ALL EQUIPMENT |
| 30 | SAFETY MEETING | 7/6/2023 | 17:50 | | | | | JOURNEY MANAGEMENT MEETING |
| 31 | DEPART LOCATION | 7/6/2023 | 18:00 | | | | | CREW DEPARTS LOCATION |

Pump Diagrams



JobMaster Program Version 5.01C1
Job Number: 87497
Customer: Terra
Well Name: Leverich SR 21-24



Job Start: Thursday, July 06, 2023