

**Daily Drilling Report****Geothermal Resource Group, Inc.**

Well ID: Forge 56-32

Job ID: Original

Well Name: 56-32

Field: UTAHFORGE

Sect: 32 Town: 26S Rng: 9W County: Beaver State: UT

Report No: 27

Report For 02-Mar-21

|                            |                    |                        |                |                         |                   |                        |          |             |          |
|----------------------------|--------------------|------------------------|----------------|-------------------------|-------------------|------------------------|----------|-------------|----------|
| Operator:                  | University of Utah | Rig:                   | Frontier       | Spud Date:              | 08-Feb-21         | Daily Cost / Mud (\$): | ---      |             |          |
| Measured Depth (ft):       | 9145               | Last Casing:           | 5.500 at 9,105 | Wellbore:               | Original Wellbore | AFE No.                | AFE (\$) | Actual (\$) |          |
| Vertical Depth (ft):       | 9138               | Next Casing:           |                | RKB Elevation (ft):     | 30.40             | ---                    | ---      | ---         |          |
| Proposed TD (ft):          | 9000               | Last BOP Test:         | 12-Feb-21      | Job Reference RKB (ft): | 28.50             | ---                    | ---      | ---         |          |
| Hole Made (ft) / Hrs:      | 0 / 0.0            | Next BOP Test:         |                | Working Interest:       |                   | Totals:                | ---      | ---         |          |
| Average ROP (ft/hr):       |                    |                        |                |                         |                   | Job/Well Cost (\$):    | ---      |             |          |
| Drilling Days (act./plan): | 23/30              | Flat Days (act./plan): | 0/8            | Total Days (act./plan): | 23/38             | Days On Location:      | 27       |             |          |
| Pers/Hrs: Operator:        | 2 / 24             | Contractor:            | 14 / 168       | Service:                | 17 / 204          | Other:                 | 0 / 0    | Total:      | 33 / 396 |

**Safety Summary:** No incidents or events reported. Conducted Safety Meeting.**Current Operations:** Waiting on cement and tools.**Planned Operations:** Secure cement and tools. Execute top down cement job.**Toolpusher:** Steve Caldwell, Vince Shaffer**Wellsite Supervisors:** Virgil Welch, Paul Stroud

Tel No.: 7132807438

**Operations Summary**

| From  | To    | Elapsed | End MD(ft) | Code   | Operations Description  | Non-Prod |
|-------|-------|---------|------------|--------|---|----------|
| 0:00  | 7:00  | 7.00    | 9,145      | 4-12-1 | Ran 5-1/2" 17 ppf, L-88, Buttress casing equipped with fiber optic cable to 7,280'.   |          |
| 7:00  | 8:00  | 1.00    | 9,145      | 03-051 | Circulated to cool and clean well bore.   |          |
| 8:00  | 9:30  | 1.50    | 9,145      | 4-12-1 | Ran 5-1/2" 17 ppf, L-80, Buttress casing equipped with fiber optic cable to 8,192'.   |          |
| 9:30  | 10:00 | 0.50    | 9,145      | 03-051 | Circulated to cool well bore.   |          |
| 10:00 | 11:30 | 1.50    | 9,145      | 4-12-1 | Ran 5-1/2" 17 ppf, L-80, Buttress casing equipped with fiber optic cable to 9,130'.   |          |
| 11:30 | 13:00 | 1.50    | 9,145      | 03-051 | Circulated to cool well bore.   |          |
| 13:00 | 16:30 | 3.50    | 9,145      | 5-99   | Rigged up cementer, pumped cement with pressure increasing to 6000 psi. Worked pipe to 9,105' attempting to free pack off. Attempted to pump wiper plug with instant pressure build up. |          |
| 16:30 | 17:00 | 0.50    | 9,145      | 11-47  | Closed Annular Preventer and pumped 330 barrels down back side to clear annulus of cement.  |          |
| 17:00 | 0:00  | 7.00    | 9,145      | 3-32   | Waited on cement and tools.   |          |

**Management Summary**

Ran 5-1/2" 17 ppf L-80 Liner equipped with fiber optic cable to 9,133'. Mixed and pumped cement, pressure increased to 6,000 psi. Casing packed off, attempted to free casing and worked pipe to 9,105'. Attempted to displace liner wiper plug and fluid would not move. Closed annular preventer and displaced 330 barrels of fluid to clear 9-5/8" X 5-1/2" annular for "Top Down" cement job. Waited on cement and tools to top job.

**Casing/Tubular Information**

| Type  | Size (ins) | Top MD (ft) | Top TVD (ft) | Bottom MD (ft) | Bottom TVD (ft) | Hole Section | OH Diam. (ins) | Nom. Wgt. (lbs) | Nominal Grade | LOT (lbs/gal) |
|-------|------------|-------------|--------------|----------------|-----------------|--------------|----------------|-----------------|---------------|---------------|
| FULL  | 20.000     | 30          | 30           | 129            | 129             | COND         |                |                 |               |               |
| FULL  | 13.375     | 0           | 0            | 382            | 382             | SURF         | 17.500         | 55              | J-55          | 16.30         |
| FULL  | 9.625      | 0           | 0            | 3,494          | 3,488           | INT1         | 12.250         | 36              | J-55          | 16.00         |
| LINER | 5.500      | 0           |              | 9,105          |                 |              |                |                 |               |               |

**Mud Information**

| %  |     |    |    |       |      |       |        |     |       |      |     |    |    | Gels |     |     | Temp |    | Mud |      |
|--|-----|----|----|-------|------|-------|--------|-----|-------|------|-----|----|----|------|-----|-----|------|----|-----|------|
| Dens.                                      | Vis | PV | YP | Filt. | Cake | pH/ES | Solids | Oil | Water | Sand | LGS | Cl | Ca | CaCl | 10s | 10m | 30m  | In | Out | Loss |
| 02-Mar-21 13:00 at Depth 9,145 ft Mud Pits |     |    |    |       |      |       |        |     |       |      |     |    |    |      |     |     |      |    |     |      |
| 9.00                                       | 34  | 14 | 4  |       | 1    | 9     | 3      | 0   | 97    | 0.1  |     |    |    |      |     |     |      |    |     |      |

**Mud Consumables**

| Item Description | Qty. | Cost | Item Description | Qty. | Cost |
|------------------|------|------|------------------|------|------|
| micro c - OTHER  | 5    | ---  |                  |      |      |

**Rig Information****Equipment Problems:****Location Condition:****Transport:****Drill Pipe Inventory**

| DP Size | Joints | Weight | Grade | Thread | DP Size | Joints | Weight | Grade | Thread |
|---------|--------|--------|-------|--------|---------|--------|--------|-------|--------|
| 5       | 277    | 19.5   | S-135 | 4.5IF  |         |        |        |       |        |



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## Safety Information

| Meetings/Drills | Time | Description  |
|-----------------|------|--------------|
| Safety          | 60   | Flashing mud |

First Aid Treatments:      Medical Treatments:      Lost Time Incidents:      Days Since LTI:

BOP Test       Crownamatic Check

## Weather Information

|                  |          |                |    |
|------------------|----------|----------------|----|
| Sky Condition:   | Clear    | Visibility:    | 10 |
| Air Temperature: | 23 degF  | Bar. Pressure: | 30 |
| Wind Speed/Dir:  | 12 / SSE | Wind Gusts:    | 15 |