



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: 19

Report For 22-Feb-21

Operator: University of Utah	Rig: Frontier	Spud Date:	Daily Cost / Mud (\$): ---		
Measured Depth (ft): 7620	Last Casing: 9.625 at 3,494	Wellbore: Original Wellbore	AFE No.	AFE (\$)	Actual (\$)
Vertical Depth (ft): 7615	Next Casing: 5.500 at 9,000	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 / 16.5	Next BOP Test:	Working Interest:	Totals: ---		
Average ROP (ft/hr): 0.0		LOT (lbs/gal): 16.00	Job/Well Cost (\$): ---		
Drilling Days (act./plan): 15/30	Flat Days (act./plan): 0/8	Total Days (act./plan): 15/38	Days On Location: 19		
Pers/Hrs: Operator: 2 / 24	Contractor: 14 / 168	Service: 8 / 96	Other: 0 / 0	Total: 24 / 288	

Safety Summary: No incidents or events reported. Conducted Safety Meeting.

Current Operations: Pulling out of the hole for the Mud Hammer.

Planned Operations: Trip for Mud Hammer and continue drilling 8-3/4" hole with mud hammer

Toolpusher: David Seddell, 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	1:00	1.00	7,620	3-6-1	Ran in the well bore with Mud Hammer to 5,790'.	
1:00	5:00	4.00	7,620	3-33	BHA stuck at 5,790' and worked string. Spotted torqueeze and worked pipe free.	
5:00	6:00	1.00	7,620	3-5-1	Circulated well bore clean.	
6:00	9:00	3.00	7,620	3-6-2	Pulled out of the hole laying down reamers.	
9:00	10:00	1.00	7,620	3-6-1	Ran in the hole with mud motor.	
10:00	10:30	0.50	7,620	3-97	Tested MWD.	
10:30	11:00	0.50	7,620	3-6-1	Ran in the hole to 5,790'.	
11:00	12:00	1.00	7,620	3-3	Reamed 8-3/4" hole from 5,790' to 5,850'. (Tagged up at 5,790')	
12:00	12:30	0.50	7,620	3-6-1	Ran in the hole to 6,920'.	
12:30	13:00	0.50	7,620	3-5-1	Circulated well bore clean.	
13:00	13:30	0.50	7,620	3-6-1	Ran in the hole to bottom at 7,620'.	
13:30	15:30	2.00	7,620	3-2-1	Attempted to hammer and rotate drilled 8-3/4" hole from 7,260' to 7,627'.	
15:30	16:00	0.50	7,620	3-5-1	Circulated well bore clean.	
16:00	19:30	3.50	7,620	3-6-2	Pulled out of the hole laying down mud hammer and tools.	
19:30	0:00	4.50	7,620	3-6-1	Made up bit and reaming assembly, RIH to 5,703'.	

Management Summary

Ran in the hole with mud motor to 5,790' and reamed 8-3/4" hole to 7,620'. Ran in the well bore to 7,620'. Attempted to mud hammer drill rotating and drilling 8-3/4" hole from 7,620' to 7,627'. Hammer did not fire. Pulled out of the hole laying down mud hammer and tools. Made up bit and reaming assembly and ran in the hole to 5,703'.

Comments

Reamed tight spots starting at 5,790' to 5,983' reaming several times and then sliding to make sure hole was good. Slid to bottom obstructed. Drilled 8-3/4" hole from 7,626' to 7,662. When pulling out of hole, no drag or tight spot noticed around reamed areas. Hole slick.

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

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
22-Feb-21 20:00 at Depth 7,627 ft Mud Pits																				
8.90	45	13	17	10.4	1	10.5	9	0	91	0.25		1100	1080		5	7	12	93	111	

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Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Barite - OTHER	40	---	Barite 50# bag - OTHER	80	---
caustic - OTHER	2	---	Defoamer - OTHER	3	---
lime - OTHER	1	---	PAllets/Wrap - OTHER	5	---
TorkEase - OTHER	5	---	xanthan gum - OTHER	1	---

Bit/BHA/Workstring Information

No	Run	Make	Model	Diam	Depth In	This Run Dist	Hrs	R.O.P.			WOB	RPM	Torque	Mud Wt	Pump Flow	Press	J. Vel	P. Drp	HHP	JIF
								Avg	Max	Min										
12	1		Hammer I	8.750	7620	0	0	0.0					9	450	2800					

Jets: Out: 7620 Grade: Cutter: 1/4 Dull: WT/RO Wear: S Brgs: X Gge: 1 Pull:

BHA - No. 12 - BIT, 3 OTHER, RR, OTHER, MWD, RR, 12 DC, 24 HWDP, OTHER = 1182.64

Rig Information

Equipment Problems:

Location Condition:

Transport:

Solids Control Information

Screen Sizes:	Top	Bottom
Shaker No 1:	170	
Shaker No 2:	170	
Shaker No 3:	140	

Drill Pipe Inventory

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

Safety Information

Meetings/Drills	Time	Description
Safety	60	Tripping
First Aid Treatments:	Medical Treatments:	Lost Time Incidents:
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	Days Since LTI:

Weather Information

Sky Condition: Clear	Visibility: 10
Air Temperature: 27 degF	Bar. Pressure: 30.27
Wind Speed/Dir: 6 / SSE	Wind Gusts: 6