

**Daily Drilling Report**

Well ID: Forge 56-32

Field: UTAHFORGE

Job ID: Original

Geothermal Resource Group, Inc.

Well Name: 56-32

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

Report No: 20

Report For 23-Feb-21

Operator:		University of Utah		Rig:		Frontier		Spud Date:		Daily Cost / Mud (\$):			---								
Measured Depth (ft):		7666		Last Casing:		9.625 at 3,494		Wellbore:		Original Wellbore		AFE No.		AFE (\$)		Actual (\$)					
Vertical Depth (ft):		7657		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:		46 / 14.0		Next BOP Test:				Working Interest:				Totals:		---		---					
Average ROP (ft/hr):		3.29						LOT (lbs/gal):		16.00		Job/Well Cost (\$):		---		---					
Drilling Days (act./plan):		16/30		Flat Days (act./plan):		0/8		Total Days (act./plan):		16/38		Days On Location:				20					
Pers/Hrs:		Operator:		2 / 24		Contractor:		14 / 168		Service:		12 / 144		Other:		0 / 0		Total:		28 / 336	

Safety Summary: No incidents or events reported. Conducted Safety Meeting.**Current Operations:** Slipped and cut drilling line. Running in the hole to drill 8-3/4" hole with PDC.**Planned Operations:** Continue drilling 8-3/4" hole with PDC. Trouble shoot 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	3:00	3.00	7,627	3-3	Reamed 8-3/4" hole from 5,703' to 5,983'.	
3:00	4:00	1.00	7,627	3-6-1	Ran in the hole un-obstructed from 5,983' to 7,600'.	
4:00	4:30	0.50	7,627	3-3	Washed and reamed 8-3/4" hole from 7,600' to 7,627'.	
4:30	5:30	1.00	7,662	3-2-2	Rotary drilled 8-3/4" hole from 7,627' to 7,662'.	
5:30	6:00	0.50	7,662	3-5-1	Circulated hole clean.	
6:00	9:00	3.00	7,662	3-6-2	Pulled out of the well bore laying down BHA.	
9:00	13:00	4.00	7,662	3-34-3	Made up mud hammer and ran in the hole to 5500'.	
13:00	17:00	4.00	7,666	3-2-2	Attempt to initiate mud hammer to work. Rotary drilled with hammer from 7,662' to 7,666'.	
17:00	22:00	5.00	7,666	3-6-2	Pulled out of the hole laying down mud hammer and tools.	
22:00	0:00	2.00	7,666	OTHER	Ran mud hammer in mouse hole and tested hammer. Hammer would not fire.	

Management Summary

Reamed 8-3/4" hole from 5,703' to 5,983' with 2 full gauge roller reamers. Ran to bottom and drilled 8-3/4" hole from 7,627' to 7,662'. Pulled out of the hole laying down bit and tools. Made up mud hammer and ran in the hole and attempted to initiate mud hammer firing while rotating from 7,262' to 7,666'. Pulled out of the well bore laying down tools. Ran mud hammer in mouse hole and tested hammer which did not fire.

Comments

Tested Mud Hammer in mouse hole, set weight on mud hammer and started pumps, hammer did not fire

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
23-Feb-21 19:00 at Depth 7,666 ft Mud Pits																				
9.00	42	13	15	11	1	10	8	0	92	0.1		900	1360		4	6	10	103	111	

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Barite - OTHER	32	---	Barite 50# bag - OTHER	80	---
lime - OTHER	1	---	PAlets/Wrap - OTHER	3	---
xanthan gum - OTHER	10	---			

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Bit/BHA/Workstring Information

					Depth	This Run		R.O.P.				Mud		Pump					
No	Run	Make	Model	Diam	In	Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt	Flow	Press	J. Vel	P. Drp	HHP	JIF
11	2	REED	TKC63	8.750	7627	35	1	35.0	61.0	35	55	12	9	550	3100	210	348	112	526
Jets: 13 13 13 14 14 14					Out: 7662		Grade: Cutter: 1 / 1			Dull: CT / NO		Wear: A		Brgs: X		Gge: 1		Pull: TD	
BHA - No. 13 - BIT, STAB, DC, RR, DC, RR, 10 DC, JAR, 24 HWDP = 1150.72																			

Mud Log Information

Depth (ft)		TVD (ft)		Gas (Units)		Gas		Drilling	Pore	Mud	Shale	ROP	
From	To	From	To	Avg	Max	at Depth	Connect.					Shale	Sand
7,620	7,660	7,615	7,655							8.80			

Formation Name:

Lithology: 40-50% altered zone (Abundnt biotite, weak foliation, increase in large euhed epidote, no calcite) 50-60% Granodiorite (overall increase in secondary mineralization)

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:		Days Since LTI:
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	

Weather Information

Sky Condition:	Clear	Visibility:	10
Air Temperature:	21 degF	Bar. Pressure:	30.14
Wind Speed/Dir:	7 / S	Wind Gusts:	7