



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: 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	---	PAallets/Wrap - OTHER	3	---
xanthan gum - OTHER	10	---			



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Bit/BHA/Workstring Information

No	Run	Make	Model	Diam	Depth		This Run		R.O.P.		Mud		Pump		J. Vel	P. Drp	HHP	JIF	
					In	Out	Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt					Flow
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.	Trip	Exp.	Press	Dens.	Dens. 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