



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: 24

Report For 27-Feb-21

Operator:	University of Utah	Rig:	Frontier	Spud Date:		Daily Cost / Mud (\$):	---		
Measured Depth (ft):	9145	Last Casing:	9.625 at 3,494	Wellbore:	Original Wellbore	AFE No.	AFE (\$)	Actual (\$)	
Vertical Depth (ft):	9138	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:	245 / 9.5	Next BOP Test:		Working Interest:		Totals:	---	---	
Average ROP (ft/hr):	25.79			LOT (lbs/gal):	16.00	Job/Well Cost (\$):	---	---	
Drilling Days (act./plan):	20/30	Flat Days (act./plan):	0/8	Total Days (act./plan):	20/38	Days On Location:		24	
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: Circulating to cool well bore for core log.

Planned Operations: Cool well bore and run coring tool on E-Line.

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	0:30	0.50	8,900	3-3	Reamed 8-3/4" hole to 8900'.	
0:30	1:00	0.50	8,900	3-2-2	Rotary drilled 8-3/4" hole from 8900' to 8923'.	
1:00	2:00	1.00	8,948	3-2-3	Slide drilled 8-3/4" hole from 8923' to 8948'.	
2:00	2:30	0.50	9,000	3-2-2	Rotary drilled 8-3/4" hole from 8948' to 9000'.	
2:30	3:30	1.00	9,025	3-2-3	Slide drilled 8-3/4" hole from 9000' to 9025'.	
3:30	5:00	1.50	9,145	3-2-2	Rotary drilled 8-3/4" hole from 9025' to TD of 9145'.	
5:00	5:30	0.50	9,145	3-5-1	Circulated well bore clean.	
5:30	10:30	5.00	9,145	3-6-2	Pulled out of the hole laying down bit, tools and drill collars.	
10:30	14:00	3.50	9,145	10-343	Made up logging bit, float and tools on HWDP and ran in the hole to 9145'.	
14:00	15:00	1.00	9,145	10-5-1	Circulated and cooled well bore.	
15:00	18:00	3.00	9,145	10-11	Rigged up loggers and picked up tools. Ran in to bottom through drill pipe with wire line.	
18:00	18:30	0.50	9,145	10-11	Rigged down wire line unit and pump in sub.	
18:30	0:00	5.50	9,145	10-11	Pulled out of the hole with Triple Combo and Gyro 30/minute.	

Management Summary

Slide and rotary drilled 8-3/4" hole from 8,923' to 9,145' TD. Circulated well bore clean and pulled out of the hole. Laid down bit, tools and drill collars. Made up logging bit and tools. Ran in the hole to 9,145' and circulated to cool well bore. Pulled out of the hole at 30'/min with Gryro and Triple Combo.

Comments

Bottom hole temperature coming off bottom was 305 degrees F. Caliper Density Pad failed.

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
27-Feb-21 15:00 at Depth 9,145 ft Mud Pits																				
9.00	40	13	17	12	1	10	8	0	92	0.1		1200	1100		3	6	9	113	128	

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Barite - OTHER	168	---	Defoamer - OTHER	2	---
soda ash - OTHER	2	---			

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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				
14	1	REED	TKC813	8.750	8900	245	3.2	76.6	160.0	45	40	15	9	650	3500	214	370	140	649
Jets: 14 14 14 14 11 11 11 11					Out: 9145	Grade: Cutter: 1/1		Dull: NO/NO		Wear: A	Brgs: X	Gge: 1	Pull: TD						
BHA - No. 15 - BIT, MMTR, OTHER, STAB, MONEL, 12 DC, JAR, 24 HWDP = 1202.18																			

Drilling Parameters

Depth (ft)		ROP (ft/hr)		WOB (lbs)		RPM		Torque (ft lbs)		Flow (gals/min)		Pressure (psi)
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	
8,900	945	140.0	80.0	45	45	190	190	9	9	670	670	
Annular Velocity:		Drill Collars:		478.6		Drill Pipe:		318.5				

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	Pick Up:	Slack Off:	Drag Avg/Max:	/
Slow Circulation Data:					
Pump 1:	20 spm	170 psi	40 spm	290 psi	60 spm, 490 psi
Pump 2:	20 spm	160 psi	40 spm	300 psi	60 spm, 520 psi

Survey Information

Survey Type	Meas. Depth	Inc.	Azimuth	TVD	Closure	Vertical Section	Coordinates		
							N-S	E-W	D.L.S.
MWD	8,927.0	2.44	260.7	8,920.5	99.6	-15.1	S 15.1	W 98.4	4.249
MWD	9,021.0	1.84	230.1	9,014.5	102.9	-16.4	S 16.4	W 101.6	1.348
MWD	9,093.0	2.99	239.9	9,086.4	105.6	-18.1	S 18.1	W 104.1	1.690
MWD	9,145.0	2.99	239.9	9,138.3	108.2	-19.5	S 19.5	W 106.4	0.000

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	Logging and tripping
First Aid Treatments:	Medical Treatments:	Lost Time Incidents:
Days Since LTI:		
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownmatic Check	

Weather Information

Sky Condition:	Cloudy	Visibility:	10
Air Temperature:	16 degF	Bar. Pressure:	30.19
Wind Speed/Dir:	5 / N	Wind Gusts:	5