



# Daily Drilling Report

Well ID: Forge 56-32

Field: UTAHFORGE

Geothermal Resource Group, Inc.

Well Name: 56-32

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

Report No: 11

Report For 14-Feb-21

Operator:		University of Utah		Rig:		Frontier		Spud Date:		Daily Cost / Mud (\$):			---								
Measured Depth (ft):		4702		Last Casing:		9.625 at 3,494		Wellbore:		Original Wellbore		AFE No.		AFE (\$)		Actual (\$)					
Vertical Depth (ft):		4700		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:		317 / 21.0		Next BOP Test:				Working Interest:				Totals:		---		---					
Average ROP (ft/hr):		15.1						LOT (lbs/gal):		16.00		Well Cost (\$):		---		---					
Drilling Days (act./plan):		7/30		Flat Days (act./plan):		0/8		Total Days (act./plan):		7/38		Days On Location:				11					
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 Crown Check, Safety Meeting.

**Current Operations:** Drilling 8-3/4" hole at 4,832' with tricone bit

**Planned Operations:** Drill 8-3/4" hole with tricone bit. When bit wears off, change to continue drilling with PDC bit.

**Toolpusher:** Justin Bristol, Steve Caldwell

**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	4,405	3-2-2	Rotary drilled 8-3/4" hole from 4,385' to 4,405'.	
1:00	3:00	2.00	4,420	3-2-3	Slide drilled 8-3/4" hole from 4,405' to 4,420'.	
3:00	12:30	9.50	4,595	3-2-2	Rotary drilled 8-3/4" hole from 4,420' to 4,595'.	
12:30	16:30	4.00	4,595	3-6-4	Pulled out of the hole laying down bit and tools.	
16:30	19:00	2.50	4,595	3-34-3	Made up bit, directional tools and ran in the hole.	
19:00	19:30	0.50	4,595	3-5-1	Filled pipe and circulated.	
19:30	20:30	1.00	4,620	3-2-3	Slide drilled 8-3/4" hole from 4,595' to 4,620'.	
20:30	23:30	3.00	4,692	3-2-2	Rotary drilled 8-3/4" hole from 4,620' to 4,692'.	
23:30	0:00	0.50	4,702	3-2-3	Slide drilled 8-3/4" hole from 4,692' to 4,702'.	

## Management Summary

Drilled 8-3/4" hole from 4,385' to 4,598' and tripped for Bit #7 (tricone) and new shock sub. Drilled 8-3/4" hole from 4,598' to 4,702'.

## Comments

Drilling break at 4,774' 80% Granodiorite and 20% altered.

## 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
14-Feb-21 21:00 at Depth 4,630 ft Mud Pits																				
8.70	46	15	24	8.2	1	10.5	6	0	94	1		1200	720		5	9	16	77	138	

## Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Barite - OTHER	20	---	caustic - OTHER	2	---
Defoamer - OTHER	4	---	Desco - OTHER	1	---
Drispac - OTHER	6	---	Gel - OTHER	20	---
micro c - OTHER	10	---	walnut Pine - OTHER		---
xanthan gum - OTHER	1	---			



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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	
6	1	REED	TKC73-H	8.750	3506	1,095	31.5	34.8					9	660	2300	214	360	139	643	
Jets: 13 13 13 14 14 14 14					Out: 4595		Grade: Cutter:		1 / 2		Dull: CT / CT		Wear: S		Brgs: X		Gge: 1		Pull: OTH	
7	1	HTC	EP5475	8.750	4596	107	4.5	23.8					9	660	2300	230	417	160	692	
Jets: 20 20 20					Out:		Grade: Cutter:		/		Dull: /		Wear:		Brgs:		Gge:		Pull:	
BHA - No. 7 - BIT, MMTR, XO, STAB, MONEL, SH/SUB, 12 DC, 24 HWDP = 1178.54																				

## 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	
4,595	4,620	21.0	25.0	45	48	0	0			670		
Comments: SLIDING												
4,620	4,692	21.0	31.0	45	48	57	60			671		
Comments: ROTARY												
4,692	4,715	19.0	53.0	45	48	0	0			670		
Comments: SLIDING												

## Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	160	Pick Up:	170	Slack Off:	150	Drag Avg/Max:	10 / 10
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	4,448.0	1.19	338.6	4,446.7	53.9	39.7	N 39.7	E 36.5	2.261
MWD	4,544.0	3.34	311.0	4,542.7	54.4	42.4	N 42.4	E 34.0	2.449
MWD	4,640.0	2.02	246.1	4,638.6	53.1	43.6	N 43.6	E 30.4	3.211

## Mud Log Information

Depth (ft)		TVD (ft)		Gas (Units)		Gas		Drilling Exp.	Pore Press	Mud Dens.	Shale Dens.	ROP	
From	To	From	To	Avg	Max	at Depth	Connect. Trip					Shale	Sand
4,380	4,700	4,376	4,696										
Formation Name:													
Lithology: 100% Granodiorite													

## 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	Making connections
First Aid Treatments: Medical Treatments: Lost Time Incidents: Days Since LTI:		
<input type="checkbox"/> BOP Test	<input checked="" type="checkbox"/> Crownamatic Check	



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### Weather Information

<b>Sky Condition:</b>	Cloudy	<b>Visibility:</b>	10
<b>Air Temperature:</b>	21 degF	<b>Bar. Pressure:</b>	30.06
<b>Wind Speed/Dir:</b>	6 / ENE	<b>Wind Gusts:</b>	10