



Daily Drilling Report

Well ID: Forge 56-32

Field: Other

Geothermal Resource Group, Inc.

Well Name: 56-32

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

Report No: 6

Report For 09-Feb-21

Operator:		University of Utah		Rig:		Frontier		Spud Date:		Daily Cost / Mud (\$):			---								
Measured Depth (ft):		2500		Last Casing:		13.375 at 382		Wellbore:		Original Wellbore		AFE No.		AFE (\$)		Actual (\$)					
Vertical Depth (ft):		2500		Next Casing:		9.625 at 3,500		RKB Elevation (ft):		30.40		---		---		---					
Proposed TD (ft):		9000		Last BOP Test:				Job Reference RKB (ft):		28.50		---		---		---					
Hole Made (ft) / Hrs:		2,119 / 9.0		Next BOP Test:				Working Interest:				Totals:		---		---					
Average ROP (ft/hr):		235.44										Well Cost (\$):		---		---					
Drilling Days (act./plan):		2/30		Flat Days (act./plan):		0/8		Total Days (act./plan):		2/38		Days On Location:				6					
Pers/Hrs:		Operator:		2 / 24		Contractor:		14 / 168		Service:		2 / 24		Other:		2 / 24		Total:		20 / 240	

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

Current Operations: Circulating the well bore clean at 3,270' preparing for a wiper trip to the shoe.

Planned Operations: Continue to drill 12-1/4" hole to casing point at 3,500'+/-. Run 9-5/8" casing.

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	381	1-14	Installed valves on well head and tightened.	
1:00	5:30	4.50	381	1-14	Insstalled spool, mud cross, double gates, annular, flow spool, choke line, choke hose and torqued all flanges.	
5:30	10:30	5.00	381	1-15	Tested BOPE system, emailed results to DWR (Jim Goddard).	
10:30	11:00	0.50	381	3-6-1	Ran in the hole with 12-1/4" Bit.	
11:00	12:00	1.00	390	03-021	Drilled out float, shoe and drilled 12-1/4" hole from 380' to 390'.	
12:00	12:30	0.50	390	03-051	Circulated hole clean.	
12:30	13:00	0.50	390	3-46	Performed FiT	
13:00	13:30	0.50	390	3-6-2	Pulled out of the well bore.	
13:30	15:30	2.00	390	4-34-3	Made up Bit #3 with mud motor and tools.	
15:30	16:30	1.00	390	4-6-1	Ran in hole and installed rotating well head.	
16:30	22:30	6.00	2,226	3-2-2	Drilled 12-1/4" hole rotating and sliding from 390' to 2,226'	
22:30	23:00	0.50	2,226	03-051	Circulated well bore clean.	
23:00	0:00	1.00	2,500	3-2-2	Drilled 12-1/4" hole rotating and sliding from 2,226' to 2,500'.	

Management Summary

Installed BOPE, tested BOPE, Made up bit on slick assembly and cleaned out float collar, cement and shoe. Drilled 10' of new hole from 3,80' to 3,90'. Performed FIT. Tripped for PDC bit on mud motor and drilled 12-1/4" hole from 390' to 2,500'.

Comments

Slid from 1,487' to 1,514'
Slid from 1,860' to 1,890'

Clay has cleaned up and hit the top of the granite at around 3,240'.

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	

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	
09-Feb-21 21:45 at Depth 2,034 ft Mud Pits																					
8.80	44	15	16	7.2	1	10.5	8	0	92	2		1200			6	11	20	47	127		



Daily Drilling Report

Well ID: Forge 56-32

Field: Other

Geothermal Resource Group, Inc.

Well Name: 56-32

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

Report No: 6

Report For 09-Feb-21

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Bicarb - OTHER	12	---	caustic - OTHER	2	---
Desco - OTHER	5	---	DMA/SPA - 100#SK	13	---
Drispac - OTHER	7	---	Gel - OTHER	80	---
PAllets/Wrap - OTHER	6	---	SAwdust - OTHER	2	---
walnut Pine - OTHER	40	---	xanthan gum - OTHER	2	---

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	HP	JIF	
2	1	REED	M-22	12.250	380	9	1	9.0					9	800	2900	327	841	392	1191	
Jets: 16 16 16 16					Out: 390		Grade: Cutter:		1 / 1		Dull: NO / NO		Wear: A		Brgs: 0		Gge: 1		Pull: TD	
3	1	REED	TKC66	12.250	390	2,110	7	301.4					9	800	2900	285	638	298	1037	
Jets: 14 14 14 14 14 14					Out:		Grade: Cutter:		/		Dull: /		Wear:		Brgs:		Gge:		Pull:	
BHA - No. 3 - BIT, MMTR, XO, STAB, MONEL, SHOCK, 9 DC, XO, 24 HWDP = 1091.56																				

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		
390	2,500	450.0	950.0	25	40	60	80	2	8	800	800	3,150	
Annular Velocity:		Drill Collars:		203.0	Drill Pipe:		222.0						

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	Pick Up:	140	Slack Off:	125	Drag Avg/Max:	10 / 12
-------------------	--------------------	----------	-----	------------	-----	---------------	---------

**Daily Drilling Report**

Well ID: Forge 56-32

Field: Other

Geothermal Resource Group, Inc.

Well Name: 56-32

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

Report No: 6

Report For 09-Feb-21

Survey Information

Survey Type	Meas. Depth	Inc.	Azimuth	TVD	Closure	Vertical Section	Coordinates		D.L.S.
							N-S	E-W	
MWD	401.0	0.70	31.4	401.0	1.9	1.3	N 1.3	E 1.4	0.275
MWD	493.0	0.70	352.1	493.0	2.9	2.4	N 2.4	E 1.6	0.511
MWD	585.0	1.14	358.3	585.0	4.1	3.9	N 3.9	E 1.5	0.489
MWD	767.0	1.36	355.0	767.0	5.5	5.5	N 5.5	W 0.3	1.992
MWD	858.0	1.54	7.2	857.9	7.8	7.8	N 7.8	W 0.2	0.392
MWD	949.0	1.41	6.3	948.9	10.1	10.1	N 10.1	E 0.1	0.145
MWD	1,040.0	1.54	10.5	1,039.9	12.4	12.4	N 12.4	E 0.4	0.184
MWD	1,135.0	1.71	5.6	1,134.8	15.1	15.1	N 15.1	E 0.8	0.230
MWD	1,230.0	1.85	13.5	1,229.8	18.0	18.0	N 18.0	E 1.3	0.295
MWD	1,325.0	1.85	16.9	1,324.7	21.1	21.0	N 21.0	E 2.1	0.117
MWD	1,419.0	2.02	16.7	1,418.7	24.2	24.0	N 24.0	E 3.0	0.181
MWD	1,514.0	1.36	30.5	1,513.6	26.9	26.6	N 26.6	E 4.1	0.811
MWD	1,608.0	1.54	37.5	1,607.6	29.0	28.5	N 28.5	E 5.4	0.269
MWD	1,703.0	1.71	43.6	1,702.6	31.4	30.6	N 30.6	E 7.1	0.254
MWD	1,798.0	1.98	49.1	1,797.5	34.0	32.7	N 32.7	E 9.4	0.340
MWD	1,892.0	1.36	55.8	1,891.5	36.2	34.4	N 34.4	E 11.5	0.690
MWD	1,986.0	1.27	71.7	1,985.5	37.8	35.3	N 35.3	E 13.4	0.398
MWD	2,081.0	1.45	63.0	2,080.4	39.4	36.2	N 36.2	E 15.5	0.288
MWD	2,175.0	1.23	72.4	2,174.4	41.0	37.0	N 37.0	E 17.5	0.330
MWD	2,270.0	1.49	60.7	2,269.4	42.7	37.9	N 37.9	E 19.6	0.399
MWD	2,365.0	1.36	74.3	2,364.3	44.5	38.9	N 38.9	E 21.7	0.379
MWD	2,458.0	1.32	71.2	2,457.3	46.1	39.5	N 39.5	E 23.8	0.088
MWD	2,551.0	1.67	73.7	2,550.3	48.0	40.2	N 40.2	E 26.1	0.383
MWD	2,648.0	2.02	78.9	2,647.2	50.3	40.9	N 40.9	E 29.2	0.401
MWD	2,743.0	2.02	85.3	2,742.2	52.6	41.4	N 41.4	E 32.5	0.235
MWD	2,839.0	1.54	70.3	2,838.1	54.9	42.0	N 42.0	E 35.4	0.691
MWD	2,934.0	1.27	61.7	2,933.1	57.0	42.9	N 42.9	E 37.5	0.360
MWD	3,029.0	1.80	66.0	3,028.1	59.3	44.0	N 44.0	E 39.8	0.571
MWD	3,124.0	0.97	100.4	3,123.0	61.1	44.5	N 44.5	E 41.9	1.199
MWD	3,219.0	0.70	92.6	3,218.0	62.0	44.3	N 44.3	E 43.3	0.308

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	112	19.5	S-135	4.5IF					

Safety Information

Meetings/Drills Time Description

Safety 60 Drilling

First Aid Treatments:

Medical Treatments:

Lost Time Incidents:

Days Since LTI:

☐ BOP Test☐ Crownamatic Check



Daily Drilling Report

Well ID: Forge 56-32

Field: Other

Geothermal Resource Group, Inc.

Well Name: 56-32

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

Report No: 6

Report For 09-Feb-21

Weather Information

Sky Condition:	Cloudy	Visibility:	10
Air Temperature:	34 degF	Bar. Pressure:	29.99
Wind Speed/Dir:	12 / S	Wind Gusts:	15