



Daily Drilling Report

Geothermal Resource Group, Inc.

Well ID: Forge 56-32

Well Name: 56-32

Field: Other

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

Report No: 5

Report For 08-Feb-21

Operator: University of Utah	Rig: Frontier	Spud Date:	Daily Cost / Mud (\$): ---
Measured Depth (ft): 381	Last Casing: 13.375 at 382	Wellbore: Original Wellbore	AFE No. AFE (\$) Actual (\$)
Vertical Depth (ft): 381	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: 253 / 2.0	Next BOP Test:	Working Interest:	Totals: --- ---
Average ROP (ft/hr): 126.5			Well Cost (\$): ---
Drilling Days (act./plan): 1/30	Flat Days (act./plan): 0/8	Total Days (act./plan): 1/38	Days On Location: 5
Pers/Hrs: Operator: 2 / 24	Contractor: 14 / 168	Service: 11 / 124	Other: 0 / 0 Total: 27 / 316

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

Current Operations: Testing BOPE

Planned Operations: Test Bope, make up DA and clean out float, cement and shoe, make 10' of new hole and perform FIT. Drill 12 1/4" hole vertically to 3,500' +/-.

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	128	10-6-1	Picked up directional tools.	
1:00	1:30	0.50	128	OTHER	Installed rotating head rubber.	
1:30	2:00	0.50	128	03-051	Filled pipe and hole.	
2:00	4:00	2.00	128	REPR	Trouble shot and replaced swivel packing.	X
4:00	4:30	0.50	128	OTHER	Changed rotating head rubber	
4:30	6:00	1.50	381	03-021	Drilled 17-1/2" hole from 128' to 380.5'.	
6:00	6:30	0.50	381	03-051	Circulated well bore clean.	
6:30	7:00	0.50	381	WIPE	Wiper Trip.	
7:00	7:30	0.50	381	03-051	Circulated well bore clean.	
7:30	8:00	0.50	381	3-6-2	Pulled out of the hole.	
8:00	9:00	1.00	381	11-344	Laid down BHA.	
9:00	12:00	3.00	381	4-12-1	Rigged up and ran 13-3/8", 54.5 ppg, J-55 buttress casing with shoe set at 381'.	
12:00	13:30	1.50	381	5-12-2	Rigged up cementers and circulated hole clean.	
13:30	14:30	1.00	381	5-12-2	Pumped 10 bbls of water ahead followed by 30 bbls of 10.5 sepiolite preflush plus 13 barrels of sodium silicate, 5 bbls of fresh water spacer followed by 79 bbls of 14 ppg RC Thermalite-a cement, dropped wiper plug and displaced with 52.25 bbls of water and bumped plug with 500 psi over. CIP at 1430 hours.	
14:30	21:00	6.50	381	5-13	Waited on cement. Cut off 20" conductor and 13.375" casing.	
21:00	0:00	3.00	381	6-35	Attempted to install well head, had wrong energizer ring, removed and installed new dies and energizer ring. Tested seals, packed off and pulled tested to 10k. Installed casing valves.	

Management Summary

Drilled 17-1/2" hole from 228' to 380'. Circulated hole clean and wiped hole. Circulated well bore clean and pulled out laying down tools. Rigged up and ran 9 joints of 54.5 ppg, J-55 Buttress casing setting shoe at 380. Rigged up Resource cementing and cemented casing in place. Cut off conductor and sized 13-3/8" casing. Attempted to install well head. Replaced dies and energizer seal and installed well head.

Comments

Good cement to surface.

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
08-Feb-21 08:00 at Depth 380 ft																				
8.70	52	15	24	9	1	10	4	0	96	1.5		1000	1480		5	12	22	65	85	

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Rig Information

Equipment Problems:

Location Condition:

Transport:

Bulk Inventory

Item Type	Units	Beginning	Used	Received	On Hand	Net
Rig Fuel	GALS	9,282	886		8,396	

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	Nippling and testing BOPE

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:	37 degF	Bar. Pressure:	29.94
Wind Speed/Dir:	17 / S	Wind Gusts:	20