



Daily Drilling Report

Well ID: Forge 78B-32

Field: UTAHFORGE

Geothermal Resource Group, Inc.

Well Name: 78B-32

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

Report No: 1

Report For 27-Jun-21

Operator:	University of Utah	Rig:	Frontier Rig 16	Spud Date:	28-Jun-21	Daily Cost / Mud (\$): ---		
Measured Depth (ft):	128	Last Casing:		Wellbore:	Original Wellbore	AFE No.	AFE (\$)	Actual (\$)
Vertical Depth (ft):		Next Casing:	24.000 at 129	RKB Elevation (ft):	30.40	---	---	---
Proposed TD (ft):	9500	Last BOP Test:		Job Reference RKB (ft):		---	---	---
Hole Made (ft) / Hrs:	0 / 0.0	Next BOP Test:		Working Interest:		Totals:	---	---
Average ROP (ft/hr):						Well Cost (\$):	---	---
Drilling Days (act./plan):	1/21	Flat Days (act./plan):	0/9	Total Days (act./plan):	1/30	Days On Location:		1
Pers/Hrs:	Operator: 3 / 36	Contractor:	12 / 144	Service:	8 / 96	Other:	1 / 12	Total: 24 / 288

Safety Summary: No incidents or events reported. 0 days since LTI. Conducted Safety Meeting.

Current Operations: Finished drilling 22 in hole to 421 ft
Circulating hole clean at 421 ft.

Planned Operations: POH and run 16 in casing and cement in place.
Nipple up and test 20 in BOP.

Toolpusher: Steve Caldwell , Justin Bristol

Wellsite Supervisors: Virgil Welch , Brian Gresham

Tel No.: 7132807438

Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
0:00	6:00	6.00	128	WOD	Wait on daylight.	
6:00	9:00	3.00	128	RIGU	Pre-Spud Inspection.	
9:00	16:00	7.00	128	1-01	Cut and removed conductor pipe at 4" above ground level. Rigged up cellar pump. Set pipe racks in place. Strapped 105 joints of 5" drill pipe 9 joints of 5" HWDP and readied for pick up. Mixed spud mud.	
16:00	17:00	1.00	128	10-341	Pick up and make up 5 stands of 5" HWDP.	
17:00	22:30	5.50	128	10-341	Pick up 114 joints of 5" drill pipe and rack back in derrick.	
22:30	0:00	1.50	128	3-34-3	Make up 22" surface hole assembly.	

Management Summary

Waited on Day Light and conducted Pre-Spud Rig Inspection.
Strapped, OD, ID and Fishing Neck of HWDP.
Picked up 5 stands of HWDP and stood back in Derrick.
Picked up 114 joints (38 Stands) of 5" DP and stood back in derrick.
Cleaned and strapped 16 in Casing.
Made up Directional tools.

Comments

Rig on "Day Rate" at 0900 hours of June 27,2021.

Note: Spoke to Jim Goddard with Department of Water Resources. Jim had received our start casing, cementing, and BOP testing schedule and waived witnessing of the 20 in BOP test provided testing to be done by a 3rd party. Results to be documented and sent to DWR.
Fuel on hand 7,637.

Activities prior to Rig Move/ Spud

June 8, 2021

- Drill 36" hole from surface to 100'. All material was alluvium (decomposed granite). Experienced no hole cave or sluff.
- weld lifting eyes on 24", move all dirt out of the way and prep to run conductor and cement same in the morning

June 9, 2021

- Check hole for fill / clean out to 100' / welding 3 joints of 24", 1/2" wall. 125.5#/ft conductor casing / set on bottom / pull rig forward / center and level conductor (102' total)
- From surface pour 14 cu. Yds (2 trucks) in annulus. Cement came to within 33' of surface. Cement is 4000 psi mix with 3/4" rock
- Prep 14" casing for mouse hole. Will top off conductor cement @ 8:00 tomorrow morning prior to drilling service hole. Crew released for the day. No accidents, incidents or injuries

June 10, 2021

- Dump 6 cu. Yds of 4000 psi w/ 3/4 rock ready mix around conductor bringing the level from 33'bgl to 5'bgl. Used another 2 cu yds to cement tower foundation on 78-32
- Let cement around conductor thicken
- Drill 26" mouse hole to 75' bgl
- Weld 3 each 25' long 14" line pipe pieces for the mouse hole and lower in the ground
- Cement the mouse shuck with 7 cu. Yds of 4000 psi mix w/ 3/4" rock. Level 5' bgl
- Using excavator dig hole for cellar and install 10'OD x 5' deep cellar ring
- Pour 1 foot of 4000 psi, w/ 3/4" rock in bottom of cellar



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- Clean up site and release Wyoming Casing

June 21, 2021

- With H&B move company man quarters, tool pusher quarters, septic system, fresh water system, power distribution panel and generator from 56-32 to 78B-32 and rig up same. Move Command center from 16A to 78B-32 and rig up same

June 22, 2021

- MSE training with all 4 Frontier crews, and 3 pushers, 3 GRG supervisors, 2 GRG office staff, 1 mud man, 2 mud loggers, 2 solids control

June 23, 2021

- MSE training with all contractors

June 24, 2021

- Tear down and move everything off 56-32 location except for subbase. On 78B-32 set and rig up pump package and mud pits, solids equipment, SCR and motor package, derrick, tool house. Removed monkey board from derrick and welder cut all racking fingers out of board and re-install to accept 5.5" drill pipe

June 25, 2021

- Hold JSA with all crews involved with rig move, On 56-32 rig down subbase and load out same, clean location and call for dumpster pick up, 56-32 completed. On 78B-32 set matting boards and build subbase, install drawworks, hang derrick and string blocks, welder completed modifying racking board to accommodate 5.5" drill pie, install modified racking board and raise A-Legs, set mud loggers trailer, set solids equipment, unload 16", set 2 mud coolers, received 1st load of diesel, finish setting top dog houses and hanging wind walls, rig up Pason NOTE: Spoke to Jim Goddard with Department of Water Resources Jim had received messages of our start casing, cementing and BOP testing schedule and waived witnessing of the 20" BOP test provided testing be done by a 3rd party and results be documented and sent to DWR

June 26, 2021

- Raise derrick and unbridal

- Rig up Top drive, mud coolers, fill tanks w/ water prepare to PUDP

Bit/BHA/Workstring Information

No	Run	Make	Model	Diam	Depth In	This Run		R.O.P.			Mud		Pump		JIF				
						Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt	Flow		Press	J. Vel	P. Drp	HHP
1	1	Smith	XR-C	22.000	128														
Jets: 28 28 28			Out: 421			Grade: Cutter: /			Dull: /			Wear:		Brgs:		Gge:		Pull:	
BHA - No. 1 - BIT, BS, XO, MWD, XO, MONEL, FLOAT, OTHER, XO, HWDP = 314.30																			

Rig Information

Equipment Problems:

Location Condition:

Transport:

Solids Control Information

Screen Sizes:	Top	Middle 1	Middle 2	Bottom	Equipment Usage (Hrs):	
Shaker No 1:	60	60	60	60		
Shaker No 2:	60	60	60	60	Centrifuge 1: 4	Centrifuge 2: 4
Shaker No 3:	60	60	60	60		

Bulk Inventory

Item Type	Units	Beginning	Used	Received	On Hand	Net
Diesel (OBM)		1,000	735	7,372	7,637	6,637

Drill Pipe Inventory

DP Size	Joints	Weight	Grade	Thread	DP Size	Joints	Weight	Grade	Thread
5"	114	19.5	S-135	4.5IF					

Safety Information

Meetings/Drills	Time	Description					
Safety	60	Mixing chemicals, pinch points, running casing / BHA					
First Aid Treatments:	0	Medical Treatments:	0	Lost Time Incidents:	0	Days Since LTI:	0
<input type="checkbox"/> BOP Test		<input type="checkbox"/> Crownamatic Check					



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Weather Information

Sky Condition: Clear	Visibility: 10
Air Temperature: 56 degF	Bar. Pressure: 29.87
Wind Speed/Dir: 10 / SE	Wind Gusts: 12