

**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: 6

Report For 02-Jul-21

Operator:	University of Utah	Rig:	Frontier Rig 16	Spud Date:	28-Jun-21	Daily Cost / Mud (\$):			---
Measured Depth (ft):	3009	Last Casing:	11.750 at 2,990	Wellbore:	Original Wellbore	AFE No.	AFE (\$)	Actual (\$)	
Vertical Depth (ft):	3009	Next Casing:	7.000 at 8,500	RKB Elevation (ft):	30.40	---	---		---
Proposed TD (ft):	9500	Last BOP Test:	29-Jun-21	Job Reference RKB (ft):		---	---		---
Hole Made (ft) / Hrs:	0 / 0.0	Next BOP Test:	19-Jul-21	Working Interest:		Totals:	---		---
Average ROP (ft/hr):						Well Cost (\$):			---
Drilling Days (act./plan):	6/21	Flat Days (act./plan):	0/9	Total Days (act./plan):	6/30	Days On Location:			6
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	4 / 48	Other:	7 / 84	Total:	28 / 336

Safety Summary: No incidents or events reported. Conducted Crown Check, Safety Meeting.**Current Operations:** Installing 13 5/8" 5M BOPE. (report time)

Planned Operations: Nipple up 13 5/8" 5M BOPE. Test BOPE.
Run in the hole and lay down 5" drill pipe.
Pick up and rack back 5.5" drill pipe.

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	0:30	0.50	3,009	3-97	Cleaned and cleared rig floor of 14 3/4" handling tools.	
0:30	1:00	0.50	3,009	10-98	Hold detailed safety meeting with Wyoming Casing Service/Rig crew along with GRG representative.	
1:00	2:00	1.00	3,009	CASE	Rig up 11 3/4" casing running equipment.	
2:00	8:30	6.50	3,009	CASE	Run 11 3/4", 54 lbs/ft, J-55 BTC casing as follows: Float Shoe, 2-joints, Float collar followed by 71-joints. Landed out with 31' landing joint to set depth of 2,989.99' Total casing ran 2,958.99' Shoe set 2,984.70 KB. Float Collar 2,903.97' KB.	
8:30	9:00	0.50	3,009	CASE	Rig down casing crew	
9:00	9:30	0.50	3,009	SERV	Service rig	
9:30	11:30	2.00	3,009	CMTP	Install valve in wellhead, rig up pumps in cellar, 4 bolt BOP	
11:30	12:30	1.00	3,009	TRPI	Trip in hole with stab-in	
12:30	13:30	1.00	3,009	CIRC	Circulate bottoms up	
13:30	14:30	1.00	3,009	CMTP	Rig up cement crew and held JSA	
14:30	16:30	2.00	3,009	CMTP	Pump 2 bbl water, pressure test lines to 3000 psi, pump 52 bbls fresh water, @ 6bpm, 20 bbl mud clean, @ 6 bpm, 10 bbl fresh water @ 6bpm-HT--HSLD atr 6 bpm, , mix and pump 315 bbl RC-Thermalite (cement to surface at 300 bbl, Displace with 3 bbl water and 47 bbl drilling mud, check floats, CIP @ 16:00	
16:30	18:00	1.50	3,009	CMTP	Un-sting and trip out of the hole with stab-in to surface.	
18:00	21:00	3.00	3,009	BOPO	Nipple down 21-1/4" BOPE and set out.	
21:00	23:45	2.75	3,009	WELLHD	Installed temporary 11 3/4" x 13 5/8 " SOW flange. Test to 1,000 psi. Good test.	
23:45	0:00	0.25	3,009	2-14	Installed 13 5/8" 5M BOPE stack.	

Management Summary

Cleaned and cleared rig floor.
Held safety meeting.
Rigged up and ran 11 3/4" casing with shoe depth of 2,899.99' KB.
Rigged down casing crew.
Ran in the hole with stab-in tool.
Rigged up Resource cementing and cemented casing with 315 bbl RC-Thermalite cement. Had good cement to surface. CIP @ 16:00.
Rigged down Resource cementing.
Pulled out of the hole with stab-in tool.
Nipped down 21-1/4" BOPE.
Installed temporary 11 3/4" x 13 5/8 " SOW flange. Test to 1,000 psi. Good test.
Installed 13 5/8" 5m BOPE stack.

Comments

CIP @ 1600 HRS.
Good cement to surface.



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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	16.000	0		416		SURF	22.000	65	K-55	0.58
FULL	11.750	0		2,990		INT1	14.750	54	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	
02-Jul-21 16:00 at Depth 3,009 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.90	43	43	29	7.8	1	10.5	7	93	0	0.5	2.8	900	120		5	9	16	109	118		

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Engineering - EACH	1	---	perdiem - OTHER	1	---

Rig Information

Equipment Problems: Replaced HYD hose on top drive.

Location Condition: Good.

Transport: Received 2- 10 5/8" nov bit's. Sent 2-14 3/4" used bits back to NOV. sent in 20" double gate along with spacer spools.

Solids Control Information

Screen Sizes:	Top	Middle 1	Middle 2	Bottom	Equipment Usage (Hrs):	
Shaker No 1:	60	60	60	60	Centrifuge 1: 6 (Solids Removal)	Centrifuge 2: 6 (Solids Removal)
Shaker No 2:	60	60	60	60		
Shaker No 3:	60	60	60	60		

Bulk Inventory

Item Type	Units	Beginning	Used	Received	On Hand	Net
Rig Fuel				3,500	3,500	

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	Two 30 min Pre tour safety meetings with both crews. Running casing, Cementing, Handling BOPE.
First Aid Treatments:	0	Medical Treatments: 0
Lost Time Incidents:	0	Days Since LTI:
<input type="checkbox"/> BOP Test	<input checked="" type="checkbox"/> Crownamatic Check	

Weather Information

Sky Condition:	Clear	Visibility:	10
Air Temperature:	70 degF	Bar. Pressure:	29.82
Wind Speed/Dir:	8 / SSE	Wind Gusts:	2