



# Daily Drilling Report

Well ID: Forge 56-32

Field: Other

# Geothermal Resource Group

Well Name: 56-32

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

Report No: 8

Report For 11-Feb-21

Operator:	University of Utah	Rig:	Frontier	Spud Date:		Daily Cost / Mud (\$):	---		
Measured Depth (ft):	3500	Last Casing:	9.625 at 3,494	Wellbore:	Original Wellbore	AFE No.	AFE (\$)	Actual (\$)	
Vertical Depth (ft):	3500	Next Casing:	5.500 at 9,000	RKB Elevation (ft):	30.40	---	---	---	
Proposed TD (ft):	9000	Last BOP Test:		Job Reference RKB (ft):	28.50	---	---	---	
Hole Made (ft) / Hrs:	96 / 5.0	Next BOP Test:		Working Interest:		Totals:	---	---	
Average ROP (ft/hr):	19.2					Well Cost (\$):	---	---	
Drilling Days (act./plan):	4/30	Flat Days (act./plan):	0/8	Total Days (act./plan):	4/38	Days On Location:		8	
Pers/Hrs: Operator:	2 / 24	Contractor:	14 / 168	Service:	8 / 96	Other:	9 / 144	Total:	33 / 432

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

**Current Operations:** Set slips for 9.625" casing in well head. Set in BOPE and tightening connections. Removing flow line to clean out cement.

**Planned Operations:** Test BOPE, Make up tools and clean out cement and shoe. Drill 10' of new hole and perform FIT. Drill 8.75" hole.

**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	1:30	1.50	3,500	3-2-2	Drilled 12.25" hole from 3404' to 3500'.	
1:30	2:30	1.00	3,500	03-051	Circulated well bore clean.	
2:30	4:00	1.50	3,500	WIPE	Wiped hole from 3500' to 2000' and backed to bottom at 3500'.	
4:00	5:00	1.00	3,500	03-051	Circulated well bore clean.	
5:00	6:30	1.50	3,500	WIPE	Wiped hole from 3500' to 2000' and back to bottom at 3500'.	
6:30	7:30	1.00	3,500	03-051	Circulated well bore clean.	
7:30	11:00	3.50	3,500	3-6-2	Pulled out of the hole and laid down BHA.	
11:00	11:30	0.50	3,500	3-97	Cleared rig floor for casing run.	
11:30	12:00	0.50	3,500	SERV	Serviced Rig.	
12:00	14:00	2.00	3,500	WOE	Waited on Power Tongs. (Power tong truck had the rear end go out, waited on new truck).	
14:00	19:00	5.00	3,500	CASE	Rigged up and ran 83 joints of 9.625" 36 ppf, J-55, LT&C casing with shoe set at 3488'.	
19:00	21:30	2.50	3,500	03-051	Rigged down casers and circulated well bore clean.	
21:30	0:00	2.50	3,500	5-12-2	Rigged up Resource Cementing and filled lines with water and pressured tested to 2000 psi. Resource Cementing pumped 10 barrels of water ahead followed by 20 barrels of RC Mjud Clean Spacer followed by 30 barrels of 10.5 ppg Sepiolite Spacer followed by 5 barrels of fresh water spacer, followed by 13 barrels of sodium silicate followed by 5 barrels of fresh water spacer and pumped 300.8 barrels of 13.4 ppg RC ThermalLite HT cement. Dropped plug and displaced with 270 barrels of mud. Bumped plug with 1500 psi (500 psi over). Floats held. Had 35 barrels of cement to surface. CIP at 0000 hours.	

## Management Summary

Drilled 12.25" hole from 3404' to 3500' and circulated well bore clean. Conducted 2 wiper trips to 2000' to wipe out swelling issue. Circulated well bore clean. Pulled out of the hole laying down 8" drill collars and directional tools. Rigged up and ran 83 joints of 9.625" 36 ppf, J-55 LT&C casing equipped with float shoe and insert baffle. Rigged up Resource Cementing and cemented casing in place. Had 35 barrels of cement to surface. CIP at 0000 hours.

## Comments

Cement did not fall. Lifted BOPE and set slips.

## 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	
FULL	9.625	0	0	3,494	3,488	INT1	12.250	36	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
11-Feb-21 07:00 at Depth 3,500 ft Mud Pits																				
8.80	46	19	18	7	1	10.5	8	0	92	2.25		1200	800		6	12	22	53	138	

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**Mud Consumables**

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Barite - OTHER	60	---	Drispac - OTHER	1	---
micro c - OTHER	10	---	SAwdust - OTHER	2	---
walnut Pine - OTHER	3	---	xanthan gum - OTHER	2	---

**Bit/BHA/Workstring Information**

No	Run	Make	Model	Diam	Depth In	This Run Dist	Hrs	R.O.P.		WOB	RPM	Torque	Wt	Mud Flow	Pump Press	J. Vel	P. Drp	HHP	JIF	
								Avg	Max											
4	1	REED	TK63	12.250	3305	192	1.5													
Jets: 22		22	22	22	11	11	Out:	Grade:	Cutter: /	Dull: /	Wear:	Brgs:	Gge:	Pull:						
BHA - No. 4 - = 1.20																				

**Rig Information**

Equipment Problems:

Location Condition:

Transport:

**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	Running casing
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: Cloudy	Visibility: 10
Air Temperature: 30 degF	Bar. Pressure: 29.79
Wind Speed/Dir: 17 / S	Wind Gusts: 20