

**Daily Drilling Report**

Well ID: FORGE 16B(78)-32

Field: FORGE

University of Utah

Well Name: FORGE 16B(78)-32

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

Report No: 52

Report For 06:00 AM 07-Jun-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	10268	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	8098	Next Casing:	7.000 at 10,159	RKB Elevation (ft):	31	---	---
Proposed TD (ft):	10658	Last BOP Test:	27-May-23	Job Reference RKB (ft):	---	---	---
Hole Made (ft) / Hrs:	12 / 0.5	Next BOP Test:	19-Jun-23	Working Interest:	Totals:	---	---
Average ROP (ft/hr):	24.0				Well Cost (\$):	---	---
Days (actual / plan):	Drilling 5.93 / 22,	Flat 0 / 0,	Complete 0 / 52,	Total 5.93 / 74		DOL:	52
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	6 / 72	Other:	6 / 72
						Total:	29 / 348
Safety Summary: No incidents or events reported. 52 days since LTI. Conducted Safety Meeting.							
Current Operations: Coring at 10,268'.							
Planned Operations: Continue coring 8-3/4" hole.							
Toolpusher: Steve King, Jason Postma							
Wellsite Supervisors: Leroy Swearingen , Randy Baldwin						Tel No.:	

**Operations Summary**

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	7:00	1.00	10,256	TRPI	Trip in hole from 8,527' to 10,250', recording torque and drag every 5 stands.	
7:00	7:30	0.50	10,256	REAM	Ream 8 3/4" core hole from 10,250' to 10,256'.	
7:30	8:00	0.50	10,264	DRIL	Drill 8' of new 8 3/4" hole from 10,256' to 10,264' to clean bottom and create a pilot hole for next core run.	
8:00	9:00	1.00	10,264	CIRC	Circulate, build and pump sweep to clean bottom of hole. Circulate bottoms up.	
9:00	14:30	5.50	10,264	TRPO	Trip out of hole from 10,264' to BHA. Lay down bit, bit sub and crossover.	
14:30	16:00	1.50	10,264	CORE	Make up 9 blade core bit CCI 3409-05, bit #27 and 4 stabilizer core assembly, BHA #30.	
16:00	0:00	8.00	10,264	TRPI	Trip in the hole to 10,234' with core assembly. Fill pipe at 3,091'. Cool tools every 5 stands after 5,000'. Wash down from 9.074' to 10,234'. Safety ream from 10,234' to 10,264'. Tag bottom.	
0:00	1:45	1.75	10,264	CIRC	Circulate bottoms up. Drop ball and pump down.	
1:45	3:00	1.25	10,264	OTHER	Performed RPM step test of bottom. RPM: 40,45,50,55,60 and back to 30.	
3:00	6:00	3.00	10,268	CORE	Coring 8 3/4" from 10,264' to 10,268'. 8K-13K WOB, 50 RPM, 400 GPM, 22K TORQ, 1.3 ROP. 500 SPP.	

**Management Summary**

Tripped in hole from 8,527' to 10,250', Reamed 8 3/4" core hole from 10,250' to 10,256'. Drilled 8' of new 8 3/4" hole from 10,256' to 10,264' for coring assembly. Pumped high viscosity sweep to clean hole. Tripped out of the hole. Made up 9 blade core bit. Bit #27 and BHA #30. Trip in the hole to 10,234' with core assembly cooling tools. Safety reamed from 10,234' to 10,264'. Tagged bottom. Circulated bottoms up. Dropped ball and pumped down. Performed RPM step test. Cored 8 3/4" hole from 10,264' to 10,268'.

**Comments**

Fuel on hand 17158 gals.  
Fuel used 1179 gals.  
Total NPT to date 98.25 HR.  
No H2S today.

**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	4		1,136	1,135	SURF	22.000	84	OTHER	
FULL	11.750	-3	3	4,837	4,837	INT1	14.750	65	OTHER	

**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	
06-Jun-23 14:00 at Depth 10,264 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.40	27				0.2	9	0.7		99.2			500						88	112		



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## Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Engineering - OTHER	2	---	HIB 19 - GALS	4	---
Lodging - OTHER	1	---	Poly Vis - 50#SK	2	---
Xanthan Gum - 50#SK	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	HHP	JIF			
26	1	SANJOAQ	EP4900	8.750	10256	8	1	8.0	25.0	30	85	18	8	508	1050	123	114	34	272		
Jets: 24 24 24				Out: 10256		Grade: Cutter:		0 / 0		Dull: NO / NO		Wear: A		Brgs: 0		Gge: 0		Pull: TD			
27	1	CANAMER	CCI 913	8.750	10264	4	3	1.3	4.0	10	35	20	8	400	550	129	125	29	225		
Jets: 12 12 12 12 12 12 12 12 12				Out:		Grade: Cutter:		/		Dull:		/		Wear:		Brgs:		Gge:		Pull:	

Comments: Core bit

BHA - No. 30 - BIT, NBS, CORE, STAB, CORE, STAB, CORE, STAB, OTHER, JAR, XO, 30 HWDP = 992.79

## Drilling Parameters

Depth (ft)		ROP (ft/hr)		WOB (lbs)		RPM		Torque (ft lbs)		Flow (gals/min)		Pressure
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	(psi)
10,256	10,264	20.0	26.0	30	32	86	90	16	18	615	615	1,050
Annular Velocity:		Drill Collars:		325.5	Drill Pipe:		325.5					
Comments:		8' of new hole fore core pilot hole.										
10,264	10,268	1.0	4.0	10	12	35	50	20	21	400	400	550
Annular Velocity:		Drill Collars:		211.7	Drill Pipe:		211.7					
Comments:		Core										

## Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	250	Pick Up:	410	Slack Off:	200	Drag Avg/Max:	75 / 160
Hours on BHA:	Since Inspection:	103	Total:	103	Jars:			
Hours on Casing/Liner:	Rotating:	107.5 / 1	Tripping:	156.25 / 12	<input checked="" type="checkbox"/> Wear Bushing Installed			

## Rig Information

Equipment Problems:

Location Condition:

Transport:

## Solids Control Information

Screen Sizes:		Top	Middle 1	Middle 2	Bottom	Equipment Usage (Hrs):		
Shaker No 1:	170	170	200	170	Desander: 0	Desilter: 0	Degasser: 0	
Shaker No 2:	170	170	200	170	Centrifuge 1: 12 (Solids Removal)		Centrifuge 2: 12 (Solids Removal)	
Shaker No 3:	170	170	200	170				

## Drill Pipe Inventory

DP Size	Joints	Weight	Grade	Thread	DP Size	Joints	Weight	Grade	Thread
5.5"	365	24.7	S-135	5.5FH	5.5	30	71.0	S-135	5.5FH
5.5	20	54.0	S-135	5.5FH					

## Safety Information

Meetings/Drills		Time	Description								
Safety		30	Two Pre-tour safety meetings held daily with crew								
First Aid Treatments:		0	Medical Treatments:		0	Lost Time Incidents:		0	Days Since LTI:		52
<input type="checkbox"/>	BOP Test		<input type="checkbox"/>	Crownamatic Check							

## Weather Information

Sky Condition:	Overcast	Visibility:	10
Air Temperature:	83 degF	Bar. Pressure:	1001
Wind Speed/Dir:	22 / SSW	Wind Gusts:	25