

**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: 60

Report For 06:00 AM 15-Jun-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	10470	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	8180	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:	10 / 0.25	Next BOP Test:	19-Jun-23	Working Interest:	Totals:	---	---
Average ROP (ft/hr):	40.0				Well Cost (\$):	---	---
Days (actual / plan):	Drilling 5.99 / 22,	Flat 0 / 0,	Complete 0 / 52,	Total 5.99 / 74		DOL:	60
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	5 / 60	Other:	2 / 24
						Total:	24 / 288
Safety Summary: No incidents or events reported. 60 days since LTI. Conducted Crown Check, Safety Meeting.							
Current Operations: Coring 8-3/4" hole at 10,470'.							
Planned Operations: Core 8-3/4" hole, trip out of the hole.							
Toolpusher: Steve King, Clay Nielson							
Wellsite Supervisors: Leroy Swearingen , Brian Gresham						Tel No.:	

**Operations Summary**

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	6:45	0.75	10,460	TRPI	Trip in the hole from 10,343' to 10,460'.	
6:45	7:00	0.25	10,462	DRIL	Drill 2' of new hole from 10,460' to 10,462'.	
7:00	8:30	1.50	10,462	CIRC	Pump 70 bbl high viscosity sweep and circulate out of hole.	
8:30	13:30	5.00	10,462	TRPO	Trip out of the hole from 10,430' to 64' performing torque and drag values.	
13:30	14:30	1.00	10,462	BHAOP	Lay down 8-3/4" TCI bit and BHA, BHA #35.	
14:30	16:00	1.50	10,462	BHAOP	PJSM with Canamera and rig personnel. Make up 8-3/4" core assembly. Core bit #9 and BHA #36.	
16:00	17:30	1.50	10,462	TRPI	Trip in the hole from 76' to 4,800'.	
17:30	18:00	0.50	10,462	SERV	Service rig and top drive while circulating hole.	
18:00	22:45	4.75	10,462	TRPI	Trip in the hole from 4,800' to 10,462', circulating and washing down as per staging in procedure to cool core barrels. Pick up 460K, Slack off 170K.	
22:45	23:30	0.75	10,462	CIRC	Circulate bottoms up at 10,462'.	
23:30	0:30	1.00	10,462	CIRC	Drop ball and circulate down to seat at 250 gpm.	
0:30	6:00	5.50	10,470	CORE	Coring 8 3/4" hole from 10,462' to 10,470'. 3K-9K WOB, 45 RPM, 25K-26K TORQ, 430 GPM, 2 FPH.	

**Management Summary**

Tripped in the hole from 10,343' to 10,460'. Drilled 2' of new hole from 10,460' to 10,462'. Pumped 70 bbl high viscosity sweep and circulated out of the hole. Tripped out of the hole from 10,430' to 64' performing torque and drag values. Laid down 8-3/4" TCI bit and BHA, BHA #35. Held safety meeting with Canamera and rig personnel. Made up 8-3/4" core assembly, BHA #36. Tripped in the hole from 76' to 4,800'. Serviced rig and top drive while circulating hole. Tripped in the hole from 4,800' to 10,462', circulating and washing down as per staging in procedure to cool core barrels. Circulated bottoms up at 10,462'. Dropped ball and circulated down to seat at 250 gpm. Core 8 3/4" hole from 10,462' to 10,470'.

**Comments**

Fuel on hand 14,584 gals.  
 Fuel used 1,432 gals.  
 Total NPT to date 120.25 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**

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
15-Jun-23 03:00 at Depth 10,460 ft Mud Pits, Type: Low Solids Non-Dispersed																				
8.40	27				0.25	9	0.65					450								
14-Jun-23 12:00 at Depth 10,462 ft Mud Pits, Type: Low Solids Non-Dispersed																				
8.40	27				0.25	8.9	0.65					450								



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## Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Engineering - OTHER	2	---	HIB 19 - GALS	2	---
Lodging - OTHER	1	---			

## 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	3	SANJOAQ	EP4900	8.750	10460	2	0.25	8.0	10.0	10	80	23	8	400	550	97	71	16	168
Jets: 24 24 24				Out: 10462		Grade: Cutter:		1 / 1		Dull: NO / NO		Wear:		Brgs: 1		Gge: 0		Pull: TD	
31	1	CANAMER	CCI	8.750	10462	8	5.5	1.5	2.5	3	45	26	8	430	585	131	129	32	245
Jets: 14 14 14 14 14 14 14				Out:		Grade: Cutter:		/		Dull: /		Wear:		Brgs:		Gge:		Pull:	
BHA - No. 36 - BIT, NBS, 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 (psi)	
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
10,460	10,462	15.0		27		78		19		400		450	
Annular Velocity: Drill Collars: 128.1				Drill Pipe:									
10,462	10,470	1.0	2.4	4	6	45	45	25	26	430	430	584	
Annular Velocity: Drill Collars: 137.7				Drill Pipe: 423.3									

## Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	265	Pick Up:	460	Slack Off:	170	Drag Avg/Max:	/
Hours on BHA:	Since Inspection:	159.75	Total:	159.75	Jars:	5.5		
Hours on Casing/Liner:	Rotating:	164.25 / 5.5	Tripping:	221.25 / 8	<input checked="" type="checkbox"/> Wear Bushing Installed			

## Rig Information

Equipment Problems:	None to report.
Location Condition:	Good.
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
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:	60	
<input type="checkbox"/> BOP Test		<input checked="" type="checkbox"/> Crownamatic Check						

## Weather Information

Sky Condition:	Mostly cloudy	Visibility:	10
Air Temperature:	76 degF	Bar. Pressure:	1007
Wind Speed/Dir:	11 / SW	Wind Gusts:	15