

**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: 23

Report For 06:00 AM 09-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	4871	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	4870	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	16 / 0.0	Next BOP Test:	20-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):						Well Cost (\$):	---
Days (actual / plan):	Drilling 1.8 / 0, Flat 0 / 0, Complete 0 / 0, Total 1.8 / 0						DOL: 23
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	10 / 120	Other:	3 / 36 Total: 30 / 360
Safety Summary: No incidents or events reported. 23 days since LTI. Conducted Safety Meeting.							
Current Operations: Laying down Core BHA 1							
Planned Operations: Pick up Core BHA 2 and trip in hole for 2nd core run							
Toolpusher: Shawn Seddell, 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	8:00	2.00	4,855	TRPO	Trip out of hole with Gyro tool f/1,700' t/surface.	
8:00	8:30	0.50	4,855	TRPO	Lay down Gyro tool. Break off bit and bit sub.	
8:30	10:30	2.00	4,855	LOG	Clean floor, PJSM with SLB and Frontier personnel, rig up logging truck and tools.	
10:30	14:00	3.50	4,855	LOG	Log open hole and casing f/4,845' t/ surface with continuous Borehole Temperature, Gamma, PFlex Cement Evaluation, Isolation Scanner, Array Sonic	
14:00	14:30	0.50	4,855	LOG	Rig down SLB and SureFire wireline.	
14:30	15:30	1.00	4,855	SERV	Clean rig floor. Rig Service, grease crown, top drive, drawworks and ST-80. Test tattoo and crown save. Grease swivel packing.	
15:30	18:00	2.50	4,855	CORE	Load catwalk with coring assembly.	
18:00	19:00	1.00	4,855	BHAOP	Make up 8-3/4" core bit and core barrels. Make up jars.	
19:00	22:00	3.00	4,855	TRPI	Trip in hole f/76' to 4,855'. Wash down last 2 stands.	
22:00	23:45	1.75	4,855	CIRC	Circulate bottoms up. Drop ball and pump down.	
23:45	2:15	2.50	4,871	CORE	Core f/4,855' t/4,871'. ROP slowed and pressure increased by 220 psi.	
2:15	3:00	0.75	4,871	CIRC	Pick up and circulate hole clean.	
3:00	6:00	3.00	4,871	TRPO	Trip out of the hole f/4,871' t/BHA.	

**Management Summary**

Tripped out of hole with Gyro survey tool. Break off bit and bit sub. Held pre job safety meeting with SLB Wireline personnel, Frontier Drilling personnel and DSM. Rig up and log well with Borehole Temperature, Gamma, PFlex Cement Evaluation, Isolation Scanner, and Sonic Array from 4,845' to surface. Rig down logging tools. Load catwalk, make up core bit 1 and pick up core BHA 1 and jars. Trip in hole, washing last 2 stands to bottom at 4,855'. Circulate bottoms up, dropped ball, pumped down and begin coring f/ 4,855' t/4,871'. ROP slowed and pressure increased to 220 psi. Picked up, circulated hole clean and tripped out of hole f/4,871' t/BHA.

**Comments**

Fuel on hand 17,093 gals.  
Fuel used 885 gals.  
Total NPT to date 48.5 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		
08-May-23 15:00 at Depth 4,855 ft Mud Pits, Type: Low Solids Non-Dispersed																						
8.40		2	1	100		9.7			100			600										

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**Mud Consumables**

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Engineering - 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	
5	1	SANJOAQ	MX-S50R	9.500	4845	0	0	0.0	0.0	0	0	0	0	0	0					
Jets: 24 24 24					Out: 4855		Grade: Cutter: /			Dull: /			Wear:		Brgs:		Gge:		Pull:	

Comments: Drill out shoe track and 10 ft of new hole.

6	1	CANAMER	CCI-913	8.750	4855	16	2.5	6.4	11.0	8	35	4500	8	400	335	116	102	24	202
Jets: 12 12 12 12 12 12 12 12 12 12		Out: 4871		Grade: Cutter: /		Dull: /		Wear:		Brgs:		Gge:		Pull:					

BHA - No. 6 - BIT, NBS, PC, STAB, CORE, STAB, CORE, STAB, OTHER, JAR, DC, XO, 30 HWDP = 1085.84

**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		
4,855	4,871	6.7	10.0	8,000	9,000								

**Miscellaneous Drilling Parameters**

Hook Loads (lbs):		Off Bottom Rotate:		Pick Up: 200,000		Slack Off:		Drag Avg/Max:		/			
Hours on BHA:		Since Inspection:		4		Total: 4		Jars:					
Hours on Casing/Liner:		Rotating:		4 / 2.5		Tripping:		/		<input type="checkbox"/> Wear Bushing Installed			

**Rig Information**

Equipment Problems:

Location Condition:

Transport:

**Solids Control Information**

Screen Sizes:	Top	Middle 1	Middle 2	Bottom
Shaker No 1:	120	120	120	120
Shaker No 2:	120	120	120	120
Shaker No 3:	170	170	170	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					

**Safety Information**

Meetings/Drills	Time	Description
Safety	30	Two Pre-tour safety meetings held daily with crews.
First Aid Treatments:	0	Medical Treatments: 0
Lost Time Incidents:	0	Days Since LTI: 23
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	

**Weather Information**

Sky Condition:	Clear	Visibility:	9
Air Temperature:	56 degF	Bar. Pressure:	1012
Wind Speed/Dir:	7 / ENE	Wind Gusts:	