

**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: 50

Report For 06:00 AM 05-Jun-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	10250	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	8089	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:	243 / 2.0	Next BOP Test:	19-Jun-23	Working Interest:	Totals:	---	---
Average ROP (ft/hr):	121.5				Well Cost (\$):	---	---
Days (actual / plan):	Drilling 5.91 / 22,	Flat 0 / 0,	Complete 0 / 52,	Total 5.91 / 74		DOL:	50
Pers/Hrs:	Operator: 3 / 12	Contractor:	14 / 168	Service:	4 / 48	Other:	6 / 72
						Total:	27 / 300
Safety Summary: No incidents or events reported. 50 days since LTI. Conducted Safety Meeting.							
Current Operations: Circulating bottoms up.							
Planned Operations: Drop ball and pump down. Core to 10,280'. Break off core and TOO. Pick up new core barrels and bit and TIH.							
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	8:00	2.00	10,250	DRIL	Rotate/Slide from 10,007' to 10,250' performing step tests in rotation for ROT 30-90 rpm, WOB 45K-62K, GPM 550-700. Slide f/ 9,863' t/ 9,885' Slide f/ 9,912' t/ 9,922' Slide f/ 9,975' t/ 10,000' 57' of 387' or 14.7%.	
8:00	9:00	1.00	10,250	CIRC	Circulate bottoms up before trip out of hole @10,250' for core run.	
9:00	15:00	6.00	10,250	TRPO	Trip out of the hole from 10,250' to 142'. Racking drill pipe to swap top half with bottom for wear. P/U 460K S/O 175K ROT 255K.	
15:00	16:00	1.00	10,250	BHAOP	Lay down directional BHA and bit.	
16:00	16:30	0.50	10,250	SERV	Service rig and top drive. Held PJSM with Canamera.	
16:30	18:00	1.50	10,250	BHAOP	Make up 8-3/4" core bit #5, bit #25 and BHA # 28.	
18:00	20:30	2.50	10,250	TRPI	Trip in hole from 77' to 4,804'. Fill pipe at 3,000'.	
20:30	23:00	2.50	10,250	CUTDL	Slip and cut 100' of drill line. Adjusted brakes.	
23:00	4:30	5.50	10,250	TRPI	Trip in hole from 4,804 to 9,554'. Cool tools every 5 stands. Wash down from 9,554' to 10,230'.	
4:30	5:30	1.00	10,250	REAM	Safety ream from 10,230' to 10,250'. Tag bottom.	
5:30	6:00	0.50	10,250	CIRC	Start circulating bottoms up.	

**Management Summary**

Drilled 9 1/2" hole from 10,007 to 10,250'. Circulated bottoms up and TOO from 10,250' to 142'. Laid down directional BHA and bit. Made up 8-3/4" core bit #5, bit #25 and BHA # 28. Tripped in hole to 4,804'. Slipped and cut line. Tripped in hole to 9,554' circulating every 5 stands to cool tools. Washed down from 9,554' to 10,230'. Safety reamed from 10,230' to 10,250'. Tagged bottom at 10,250'. Circulated.

**Comments**

Fuel on hand 11766 gals.  
Fuel used 1357 gals.  
Total NPT to date 96.25 HR.  
No H2S today.  
Last survey: 10,165' MD, 8,054 TVD, 65.97° INC, 103.6° AZI, 37' low and 72' left of the plan.

**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	



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## 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	
05-Jun-23 05:00 at Depth 9,880 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.40	27	1	1	100	0.2	8.8	0.5	0.25	99.25			500	120					80	121	0	
04-Jun-23 11:00 at Depth 10,250 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.41	27	1	1	100	0.2	9.2	0.55	0.2	99.25			550	100							0	

## Mud Consumables

Item Description		Qty.	Cost	Item Description		Qty.	Cost
Caustic Soda - 50#SK		2	---	Engineering - OTHER		2	---
HIB 19 - GALS		5	---	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
24	1	BAKER	D406VX	9.500	9863	387	4	96.8	320.0	60	35	22	8	600	1880	157	185	65	409
Jets: 14 14 14 13 13 13 13 13 13					Out: 10250		Grade: Cutter: /			Dull: /		Wear:		Brgs:		Gge:		Pull:	
25	1	CANAMER	CCI-713	8.750	10250	0	0	0.0	0.0	0	30	22	8	330	290	101	76	15	144
Jets: 14 14 14 14 14 14 14					Out:		Grade: Cutter: /			Dull: /		Wear:		Brgs:		Gge:		Pull:	
Comments: Core from 10,250'																			
BHA - No. 28 - 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 (psi)	
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
10,007	10,250	175.0	250.0	60	62	85	90	25	28	600	700	2,880	
Annular Velocity: Drill Collars:				245.1	Drill Pipe:				245.1				

## Miscellaneous Drilling Parameters

Hook Loads (lbs):		Off Bottom Rotate:		255	Pick Up:		460	Slack Off:		175	Drag Avg/Max:		/
Hours on BHA:		Since Inspection:		93.5	Total:		93.5	Jars:					
Hours on Casing/Liner:		Rotating:		98 / 0	Tripping:		138.25 / 0				<input 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
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:	50
<input type="checkbox"/> BOP Test		<input type="checkbox"/> Crownamatic Check		

## Weather Information

Sky Condition:		Mostly clear	Visibility:		10
Air Temperature:		75 degF	Bar. Pressure:		1013
Wind Speed/Dir:		0 / WNW	Wind Gusts:		5