

**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: 22

Report For 06:00 AM 08-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	4855	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	4854	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	10 / 1.5	Next BOP Test:	20-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	6.67					Well Cost (\$):	---
Days (actual / plan):	Drilling 1.8 / 0,	Flat 0 / 0,	Complete 0 / 0,	Total 1.8 / 0			DOL: 22
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	10 / 120	Other:	3 / 36 Total: 30 / 360
Safety Summary: No incidents or events reported. 22 days since LTI. Conducted Safety Meeting.							
Current Operations: Tripping out of the hole at 1,607'.							
Planned Operations: Finish tripping out of the hole. Remove bit, bit sub and Gyro. Run Isolation Scanner. Pick up core tools.							
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	9:30	3.50	4,845	BOPT	Test lower manual valve and pipe rams, 250 psi low, 5,000 psi high for 5 minutes. Test good. Attempt to test blind rams. Test failed.	
9:30	17:30	8.00	4,845	REPR	Open ram doors and remove blind rams. Remove seals. Wait on new seals. While waiting on repairs, crew changing grabber box dies and change oil in top drive. Unload 90 jts of insulated drill pipe. Install new seals on blind rams.	X
17:30	19:30	2.00	4,845	BOPT	Test blind rams to 250 psi low and 5,000 psi high for 5 minutes. Good test. Remove test plug. Install wear bushing.	
19:30	1:00	5.50	4,845	TRPI	Make up 9-1/2" insert bit. Trip in the hole. Tag top of cement at 4,744'.	
1:00	2:00	1.00	4,845	DRILR	Drill out cement f/4,744' t/4,748', top of float collar. Drill out float collar and good cement to float shoe at 4,839'. Drill out good cement t/4,843' and contaminated cement t/4,845'.	
2:00	2:30	0.50	4,855	DRILR	Drill 10' new hole f/4,845' t/4,855'. 20 WOB, RPM 50, 60, 65, & 70. Brought WOB to 25. Max temp out 120 deg F.	
2:30	3:30	1.00	4,855	CIRC	Circulate hole clean. 8.5 ppg in and out.	
3:30	4:00	0.50	4,855	FIT	Perform FIT test to 330 psi. Mud Weight Equivalent 9.8 ppg.	
4:00	4:30	0.50	4,855	SURV	PJSM. Drop Gyro. Totco Ring at 4,850'.	
4:30	6:00	1.50	4,855	TRPO	Trip out of the hole f/4,852' t/1,607'.	

**Management Summary**

Tested lower manual valve and pipe rams, 250 psi low, 5,000 psi high for 5 minutes. Test good. Attempted to test blind rams. Test failed. Changed out blind ram seals. Tested blind rams to 250 psi low and 5,000 psi high for 5 minutes. Test good. Removed test plug. Installed wear bushing. Made up 9-1/2" insert bit and tripped in the hole. Tagged top of cement at 4,744'. Drilled out cement f/4,744' t/4,748', top of float collar. Drilled out float collar and good cement to shoe at 4,839'. Drilled out good cement t/4,843' and contaminated cement t/4,845'. Drilled 10' new hole f/4,845' t/4,855'. Circulated hole clean. 8.5 ppg in and out. Performed FIT test to 330 psi. Mud Weight Equivalent 9.8 ppg. Dropped Gyro with Totco Ring at 4,850'. Trip out of the hole f/4,852' t/1,607'.

**Comments**

Fuel on hand 17,978 gals.  
Fuel used 824 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**

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	
07-May-23 15:00 at Depth 4,845 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.35		2	1			7.8			100			300									



# 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: 22

Report For 06:00 AM 08-May-23

## 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	111	1.5	74.0	120.0	25	70	4700	8	680	1080	165	204	81	487
Jets: 24 24 24				Out:		Grade: Cutter:		/		Dull:		/		Wear:		Brgs:		Gge:	
																		Pull:	

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

BHA - No. 5 - BIT, BS, 5 DC, XO, 30 HWDP = 1385.26

## 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	Avg	Max
4,744	4,855	11.0	15.0	25	25	70	70	4,500	5,300	680	690	1,080	
Annular Velocity: Drill Collars:				373.0	Drill Pipe:				277.8				

Comments: 10 ft of new hole.

## Miscellaneous Drilling Parameters

Hook Loads (lbs):		Off Bottom Rotate:		Pick Up:		Slack Off:		Drag Avg/Max:		/	
Hours on BHA:		Since Inspection:		1.5	Total:		1.5	Jars:			

## 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. BOPE testing procedures. Making up BHA
First Aid Treatments:	0	Medical Treatments:
		0
Lost Time Incidents:	0	Days Since LTI:
		22
<input type="checkbox"/> BOP Test		<input type="checkbox"/> Crownamatic Check

## Weather Information

Sky Condition:	Mostly clear	Visibility:	10
Air Temperature:	62 degF	Bar. Pressure:	1013
Wind Speed/Dir:	11 / ENE	Wind Gusts:	