

**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: 14

Report For 06:00 AM 30-Apr-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	2650	Last Casing:	16.000 at 1,136	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	2579	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	1,504 / 8.0	Next BOP Test:	20-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	188.0					Well Cost (\$):	---
Days (actual / plan):	Drilling 0.73 / 0, Flat 0 / 0, Complete 0 / 0, Total 0.73 / 0						DOL: 14
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	4 / 48	Other:	3 / 36
						Total:	24 / 288
Safety Summary: No incidents or events reported. 14 days since LTI. Conducted Crown Check, Safety Meeting.							
Current Operations: Drilling Intermediate section @ 2,650' MD							
Planned Operations: Drill Intermediate section f/ 2,650'							
Toolpusher: Shawn Seddell							
Wellsite Supervisors: Leroy Swearingen, Brian Gresham						Tel No.:	

**Operations Summary**

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	7:15	1.25	1,136	CMTD	Drill out shoe track f/1,096' t/1,136'.	
7:15	8:00	0.75	1,156	DRIL	Clean out rathole t/1,146'. Drill 10' new formation t/1,156'.	
8:00	9:00	1.00	1,156	CIRC	Circulate hole clean for trip for directional tools.	
9:00	11:30	2.50	1,156	REPR	Replace dies in clamp on IBOP/Saver sub.	X
11:30	12:00	0.50	1,181	DRIL	Drill ahead f/ 1,156' t/ 1,181', 20K WOB, 60 rpm ROT, 2.5K ft-lb TORQ, 1,012 gpm, 1,550 psi SPP	
12:00	15:30	3.50	1,181	REPR	Work on clamps on top drive. Replace hydraulic hose on ST-80.	X
15:30	17:30	2.00	1,181	TRPO	Trip out of hole f/ 981' t/surface. Break off bit and bit sub.	
17:30	18:00	0.50	1,181	BHAOP	Pick up SDI 7/8 5.7, 1/5° bent motor. Make up 14 3/4-inch Intermediate BHA.	
18:00	21:00	3.00	1,181	TRPI	Trip in the hole t/1,036' hole giving proper displacement.	
21:00	21:30	0.50	1,181	OTHER	Install rotating rubber.	X
21:30	22:30	1.00	1,410	DRIL	Drill 14 3/4-inch intermediate section f/1,181' t/1,410', 10-60K WOB, 60-120 rpm ROT, 15-35 K ft-lb TORQ, 1,200 gpm, 2,450 psi SPP, Diff 650-800. ROP Limiter, making up stands in the mouse hole.	
22:30	23:30	1.00	1,410	OTHER	Remove clamp on TDS, raise grabber assembly and break out of connection w/tongs. Note: circulate at reduced pump rate while rigging down grabber box.	
23:30	0:30	1.00	1,597	DRIL	Drill 14 3/4-inch intermediate section f/1,410' t/1,597', 10-60K WOB, 100 rpm ROT, 15-25 K ft-lb TORQ, 1,200 gpm, 2,450 psi SPP, Diff 650-800. ROP Limiter, making up stands in the mouse hole.	
0:30	1:15	0.75	1,597	OTHER	Retighten clamps on TDS.	X
1:15	6:00	4.75	2,500	DRIL	Drill 14 3/4-inch intermediate section f/1,597' t/2,650', 20-60K WOB, 100 rpm ROT, 18-27 K ft-lb TORQ, 1,200 gpm, 2,450 psi SPP, Diff 650-800. ROP Limiter, making up stands in the mouse hole.	

**Management Summary**

Drilled out shoe track t/1,136'. Cleaned out rathole t/1,146'. Drilled 10' of new formation t/1,156'. Circulated hole clean. Replaced dies on Saver Sub clamp. Drilled f/1,156' t/1,181'. Retighten clamps on TDS. Tripped out of the hole with clean out assembly. Picked up 14 3/4-inch Dir assembly. Tripped in the hole t/1,036'. Installed rotating rubber. Drilled intermediate section f/1,181' t/1,410'. Removed Saver Sub clamp and break out of connection with tongs. Drilled intermediate section f/1,410' t/1,597'. Retighten clamp on TDS. Drilled intermediate section f/1,597' t/2,650'.

**Comments**

Fuel on hand 16,394 gals.  
Fuel used 447 gals.  
Total NPT to date 7.75 HR

**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	J-55	



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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	
29-Apr-23 16:00 at Depth 1,181 ft Mud Pits																					
8.80	40	12	9	5	1	9	3.5	0	100	0.1		3100	20		2	14	22			0	

## Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Engineering - OTHER	2	---	SAPP - 50#SK	6	---

## 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	HPH	JIF			
3	1	NOV	TKC66-A4	9.688	1181																	
Jets: 18 18 18 18 18 18					Out:		Grade: Cutter:		/		Dull:		/		Wear:		Brgs:		Gge:		Pull:	
BHA - No. 3 - BIT, MMTR, STAB, DCM, PC, HSUB, OTHER, PC, XO, DC, XO, HWDP = 841.42																						

## 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		
1,146	2,650	300.0	1,800.0	20	60	100	120	18	35	1,150	1,200		

## Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	140	Pick Up:	150	Slack Off:	135	Drag Avg/Max:	5 / 10
Hours on BHA:	Since Inspection:	7.25	Total:	7.25	Jars:	0		
Hours on Casing/Liner:	Rotating:	7.25 / 0	Tripping:	2 /			<input checked="" type="checkbox"/> Wear Bushing Installed	

## Rig Information

Equipment Problems:													
Location Condition: Good.													
Transport:													

## Solids Control Information

Screen Sizes:	Top	Middle 1	Middle 2	Bottom	Equipment Usage (Hrs):			
Shaker No 1:	120	120	120	120	Desander: 0	Desilter: 0	Degasser: 0	
Shaker No 2:	120	120	120	120	Centrifuge 1: 6 (Solids Removal)		Centrifuge 2: 6 (Solids Removal)	
Shaker No 3:	120	120	120	120				

## Drill Pipe Inventory

DP Size	Joints	Weight	Grade	Thread	DP Size	Joints	Weight	Grade	Thread
5.5	365	24.7	S-135	OTHER					

## Safety Information

Meetings/Drills		Time	Description								
Safety		30	Two Pre-tour safety meetings held daily with crews. Review planned operations. Making up BHA.								
First Aid Treatments:		0	Medical Treatments:		0	Lost Time Incidents:		0	Days Since LTI:		14
<input type="checkbox"/>	BOP Test		<input checked="" type="checkbox"/>	Crownamatic Check							

## Weather Information

Sky Condition: Sunny				Visibility: 10			
Air Temperature: 44 degF				Bar. Pressure: 1021			
Wind Speed/Dir: 8 / SSW				Wind Gusts: 3			