

**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: 26

Report For 06:00 AM 12-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	4978	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	4977	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	68 / 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: 26
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	12 / 144	Other:	5 / 60
						Total:	34 / 408
Safety Summary: No incidents or events reported. 26 days since LTI. Conducted Safety Meeting.							
Current Operations: Picking up wash tool to clean Particle Drilling shot from BOPE.							
Planned Operations: Rig down Particle Drilling equipment. Clean mud pits. Trip in hole with 9-1/2" HALO assembly and drill ahead.							
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	7:00	1.00	4,910	CIRC	Circulate to remove Particle Drilling shot from hole.	
7:00	9:30	2.50	4,910	TRPO	Trip out of hole from 4,910' to BHA.	
9:30	11:00	1.50	4,910	TRPO	Lay down top reamer and pull up to bit. Break off NOV Black Box and bit.	
11:00	15:00	4.00	4,910	TRPI	Pick up new NOV Black Box and bit. Trip in hole to 4,808'. Fill pipe.	
15:00	16:30	1.50	4,910	CUTDL	Slip and cut 100' of drill line.	
16:30	17:00	0.50	4,910	SERV	Service rig.	
17:00	17:30	0.50	4,910	TRPI	Trip in hole from, 4,808' to 4,900'.	
17:30	18:15	0.75	4,910	CIRC	Pump sweep and clean hole.	
18:15	18:30	0.25	4,910	REAM	Safety ream from 4,900' to 4,910'.	
18:30	22:00	3.50	4,978	DRILPA	Particle drill 9-1/2" hole from 4,910' to 4,978'. ROP slowing down. Loss of pump pressure.	
22:00	1:30	3.50	4,978	CIRC	Pump 4 each, 80 bbl high viscosity sweeps and clean hole.	
1:30	4:30	3.00	4,978	TRPO	Trip out of the hole from 4,978' to BHA.	
4:30	6:00	1.50	4,978	BHAOP	Lay down roller reamers, NOV Black Box, bit sub and bit.	

**Management Summary**

Circulated and removed Particle Drilling shot from hole. Tripped out of the hole. Changed out bit and NOV Black Box. Tripped in hole to 4,900'. Safety reamed from 4,900' to 4,910'. Particle drilled 9-1/2" hole from 4,910' to 4,978'. ROP slowed and loss of pump pressure. Pumped high viscosity sweeps and cleaned shot from hole. Tripped out of the hole from 4,978' to BHA. Layed down roller reamers, Nov Black Box, bit sub and bit.

**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	
11-May-23 09:00 at Depth 4,910 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.60	48	13	17	11	1	10.6	1.2		98.8			1600			5	23		110	120	0	

**Mud Consumables**

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Defoam 14 - GALS	1	---	Engineering - OTHER	1	---
Trucking -	1	---	Xanthan Gum - 50#SK	2	---

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**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
8	1	NOV	Partical Drilli	9.500	4878	0	0	0.0	0.0	0	0	0	9	0	0	513	2025	768	1484
Jets: 11 11 12 12					Out: 4910		Grade: Cutter: /			Dull: /		Wear:		Brgs:		Gge:		Pull:	
Comments: Nose of bit gone. 1 nozzle gone. Bottom cutters gone.																			
9	1	NOV	Particle	9.500	4910	68	3	22.7	44.0	20	80	6000	9	600	2500	474	1705	597	1250
Jets: 11 11 12 12					Out: 4978		Grade: Cutter: /			Dull: /		Wear:		Brgs:		Gge:		Pull:	
Comments: Nose was gone. Cutters OK.																			
BHA - No. 9 - BIT, BS, RR, OTHER, RR, DC, RR, 12 DC, XO, 30 HWDP = 1348.68																			

**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	
4,910	4,978	22.0	44.0	20,000	25,000	80	100	4,500	12,000	600	650	2,500
Annular Velocity:		Drill Collars:		329.1	Drill Pipe:		245.1					
Comments:		Particle Drilling										

**Miscellaneous Drilling Parameters**

Hook Loads (lbs):		Off Bottom Rotate:		Pick Up:		Slack Off:		Drag Avg/Max: /				
Hours on BHA:		Since Inspection:		12		Total:		12		Jars:		
Hours on Casing/Liner:		Rotating:		12 / 0		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	Equipment Usage (Hrs):						
Shaker No 1:		120	120	120	120							
Shaker No 2:		120	120	120	120	Centrifuge 1: 1 (Solids Removal)						
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		45	Two Pre-tour safety meetings held daily with crews. Particle drilling. New rig crews.					
First Aid Treatments:			Medical Treatments:		Lost Time Incidents:		Days Since LTI:	26
<input type="checkbox"/>	BOP Test		<input type="checkbox"/>	Crownamatic Check				

**Weather Information**

Sky Condition: Partly sunny.					Visibility: 10		
Air Temperature: 67 degF					Bar. Pressure:		
Wind Speed/Dir: 8 / NW					Wind Gusts:		