

**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: 38

Report For 06:00 AM 24-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	8585	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	7350	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	225 / 4.5	Next BOP Test:	28-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	50.0					Well Cost (\$):	---
Days (actual / plan):	Drilling 4.99 / 0, Flat 0 / 0, Complete 0 / 0, Total 4.99 / 0					DOL:	38
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	6 / 72	Other:	4 / 48
						Total:	27 / 324
Safety Summary: No incidents or events reported. 38 days since LTI. Conducted Crown Check, Safety Meeting.							
Current Operations: Logging well with UBI at report time.							
Planned Operations: Log well, lay out drill collars, pick up BHA #19, trip in the hole to 8,585', drill 9 1/2" hole from 8,585'.							
Toolpusher: Shawn Seddell, Clay							
Wellsite Supervisors: Leroy Swearingen, Brian Gresham						Tel No.:	

Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	10:30	4.50	8,585	DRILS	Rotate/Slide drill 9 1/2" hole from 8,360' to 8,585'. Rotating at 70K wob, 70 rpm, 700 gpm, 120-160 fph. Rotating Sliding at 60K-80K wob, 600-700 gpm, 30-70 fph. Rotation 85%, Sliding 15%. Slide 8,360' to 8,362'. Slide 8,388' to 8,420'. Note: Lost pluses with MWD at 8,460' while drilling.	
10:30	16:00	5.50	8,585	CIRC	Circulate to clean and cool hole for open hole logs.	
16:00	18:00	2.00	8,585	TRPO	Break off top drive, drop gyro survey tool, and pump down. Trip out of hole from 8,585' to 7,027' with insulated drill pipe.	
18:00	20:30	2.50	8,585	TRPO	Trip out of the hole with insulated drill pipe from 7,027' to BHA.	
20:30	21:00	0.50	8,585	BHAOP	Rack back HWDP and Collars.	
21:00	22:00	1.00	8,585	BHAOP	Break bit, rack back BHA #18, retrieve gyro, remove sensor #2232 from bit. Lay out motor. Note: found a small amount of coating from insulated drill pipe in filter sub.	
22:00	6:00	8.00	8,585	LOG	Rig up SLB Wireline to log well with UBI and FMI. 1st run, UltraSonic Borehole Imager @ 23:00 hrs, from 8,508' to 6,700', logged at 800 ft/hr. Switch mode to borehole dip mode and log from 8,508' to 6,700', logged at 800 ft/hr. Stop at 4,810' switch mode to UltraSonic casing Imager, log casing. Max temp on first run 247 deg f. Max temp on second run 272 deg f.	

Management Summary

Drilled 9 1/2" hole from 8,360' to 8,585'. Circulated hole clean for logs, dropped gyro, tripped out of the hole from 8,585' to BHA, racked back BHA #18, Laid out motor and bit. Rigged up SLB Wireline. Log well with UBI.

Comments

Fuel on hand 18,740 gals.
 Fuel used 1,628 gals.
 Fuel delivered 7,500 gals.
 Total NPT to date 92.75 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	



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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	
24-May-23 00:30 at Depth 8,145 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.40	27				0.2	11	0.6		99.4			750									
23-May-23 13:00 Mud Pits, Type: Low Solids Non-Dispersed																					
8.40	27				0.2	10.5	0.4		99.6			700									

Mud Consumables

Item Description			Qty.	Cost	Item Description			Qty.	Cost
Caustic Soda - 50#SK			5	---	DC-310/CI-100 - OTHER			10	---
Engineering - OTHER			2	---	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	
17	1	NOV	TKC 83	9.500	8085	550	10.5	52.4	175.0	70	85	25	8	700	2150	187	262	107	568
Jets: 14 14 14 14 14 14 14 14				Out: 8585		Grade: Cutter: 2 / 3			Dull: BT / WT		Wear: S		Brgs: X		Gge: 1		Pull: LOG		
Comments: ran on Insulated drill pipe																			
BHA - No. 18 - BIT, MMTR, RR, PC, DCM, MWD, 2 PC, 3 OTHER, 9 DC, XO, 30 HWDP = 1323.71																			

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
8,360	8,585	70.0	165.0	70	70	70	70	24	26	700	700	2,350	
Annular Velocity: Drill Collars:				391.4	Drill Pipe:				286.0				

Miscellaneous Drilling Parameters

Hook Loads (lbs):		Off Bottom Rotate:		320	Pick Up:		345	Slack Off:		320	Drag Avg/Max:		10 / 20
Hours on BHA:		Since Inspection:		36	Total:		36	Jars:					
Hours on Casing/Liner:		Rotating:		38.5 / 24.5		Tripping:		22 / 10		<input checked="" type="checkbox"/> Wear Bushing Installed			

Rig Information

Equipment Problems: None to report.													
Location Condition: Good.													
Transport:													

Solids Control Information

Screen Sizes:		Top	Middle 1	Middle 2	Bottom	Equipment Usage (Hrs):		
Shaker No 1:		170	170	170	170	Desander:	0	Desilter: 0
Shaker No 2:		170	170	170	170	Centrifuge 1:	12 (Solids Removal)	Centrifuge 2: 12 (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	81	21.9	S-135	OTHER	5.5	250	24.7	V-150	OTHER

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:		38
<input type="checkbox"/>	BOP Test		<input checked="" type="checkbox"/>	Crownamatic Check							

Weather Information

Sky Condition: Mostly clear				Visibility: 10			
Air Temperature: 72 degF				Bar. Pressure: 1011			
Wind Speed/Dir: 11 / SSW				Wind Gusts: 10			