



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: 44 Report For 06:00 AM 30-May-23

Operator: UNIVERSITY OF UTAH	Rig: Frontier 16	Spud Date: 26-Apr-23	Daily Cost / Mud (\$): ---
Measured Depth (ft): 9817	Last Casing: 11.750 at 4,837	Wellbore: Original Wellbore	AFE No. AFE (\$) Actual (\$)
Vertical Depth (ft): 7640	Next Casing:	RKB Elevation (ft): 31	---
Proposed TD (ft):	Last BOP Test: 27-May-23	Job Reference RKB (ft):	---
Hole Made (ft) / Hrs: 17 / 0.0	Next BOP Test: 19-Jun-23	Working Interest:	Totals: ---
Average ROP (ft/hr):			Well Cost (\$): ---

Days (actual / plan): Drilling 5.68 / 0, Flat 0 / 0, Complete 0 / 0, Total 5.68 / 0 DOL: 44

Pers/Hrs: Operator: 3 / 36 Contractor: 14 / 168 Service: 6 / 72 Other: 4 / 48 Total: 27 / 324

Safety Summary: No incidents or events reported. 44 days since LTI. Conducted Safety Meeting.

Current Operations: Picking up Core BHA #4.

Planned Operations: Run in hole with BHA #23. Core BHA #4. Core from 9,817' to 9,847'.

Toolpusher: Shawn Seddell, Clay Nielson

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	9,800	TRPI	Stage in hole from 8,039' to 9,800' keeping tools cool. Tag bottom at 9,800'. get rotating weight 250K, up weight 380K, down 200K.	
8:00	9:30	1.50	9,800	CIRC	Circulate bottoms up at 9,710'. Drop ball and circulate down.	
9:30	22:15	12.75	9,817	CORE	Cut 8 3/4" core from 9,800' to 9,817'. Pason weight on bit reading 8-9K high. Using Totco with 12-13K wob, 40-50 rpm, 15-23K torque, 300 gpm..	
22:15	23:15	1.00	9,817	CORE	ROP slowing. Perform Pull Test to 425K. Holding. Slack off to neutral point. Zero weight and restart. Pason weight on bit reading right. ROP still slow. Pull up to 430K and broke core.	
23:15	3:00	3.75	9,817	TRPO	Trip out of the hole to 913'. 415K max up weight.	
3:00	4:15	1.25	9,817	BHAOP	Broke out and laid down jars, core barrels and core. Broke out bit.	
4:15	6:00	1.75	9,817	OTHER	Cut 17.5' of core and recovered 15.5'. Cut up core. Discussed coring BHA #4, BHA #23.	

Management Summary

Staged in hole cooling tools from 8,039' to 9,800'. Circulated bottoms up at 9,710'. Dropped ball and circulated down. Cut 8 3/4" core from 9,800' to 9,817'. ROP slowed. Performed Pull test to 425K. OK. Slack off to neutral point. Zero weight and restarted. ROP still slow. Pulled up to 430K and broke core. Tripped out of the hole. Broke out and laid down jars, core barrels and bit. Cut 17.5' of core and recovered 15.5'. Cut up core.

Comments

Fuel on hand 18713 gals.
Fuel used 1,369 gals.
Total NPT to date 94.25 HR.
No H2S today.
Pason WOB not working correctly during coring.

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
30-May-23 00:30 at Depth 9,800 ft Mud Pits, Type: Low Solids Non-Dispersed																				
8.41	27					8.5			99			500								
29-May-23 14:00 at Depth 9,806 ft Mud Pits, Type: Low Solids Non-Dispersed																				
8.41	27					8.3			99			500								



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Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Defoam 14 - GALS	1	---	Engineering - OTHER	2	---
HIB 19 - GALS	4	---	Lodging - OTHER	1	---
ProOne - GALS	245	---	TORKease - GALS	16	---
TORKease Concentrate - GALS	1	---			

Bit/BHA/Workstring Information

No	Run	Make	Model	Diam	Depth		This Run			R.O.P.		Mud Pump							
					In	Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt	Flow	Press	J. Vel	P. Drp	HHP	JIF
20	1	CANAMER	CCI	8.750	9800	17	13.75	1.2	4.3	10	40	20	8	300	285	97	71	12	126

Jets: 12 12 12 12 12 12 12 12 12 12 Out: 9817 Grade: Cutter: / Dull: / Wear: Brgs: Gge: Pull: PR

Comments: All bottom cutters missing 9 completely gone

BHA - No. 22 - BIT, NBS, CORE, STAB, CORE, STAB, CORE, STAB, OTHER, JAR, XO, 30 HWDP = 992.84

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	
9,800	9,817	1.3	2.5	10	13	39	50	15	23	320	326	300

Annular Velocity: Drill Collars: 102.4 Drill Pipe: 315.0

Comments: Core Run from 9,800'

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	250	Pick Up:	380	Slack Off:	200	Drag Avg/Max:	200 / 200
Hours on BHA:	Since Inspection:	66.25	Total:	66.25	Jars:	13.75		
Hours on Casing/Liner:	Rotating:	68.75 / 0	Tripping:	69.75 / 0	<input checked="" type="checkbox"/> Wear Bushing Installed			

Rig Information

Equipment Problems: Pason WOB reading 8-9K high. Attempt to callibrate 3 times. Calling out Pason tech.

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	Degasser:	0
Shaker No 2:	170	170	200	170	Centrifuge 1:	8.5 (Solids Removal)		Centrifuge 2:	8.5 (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 crews. PJSM for making up core BHA.
First Aid Treatments:	0	Medical Treatments: 0 Lost Time Incidents: 0 Days Since LTI: 44
<input type="checkbox"/> BOP Test		<input type="checkbox"/> Crownamatic Check

Weather Information

Sky Condition:	Mostly sunny	Visibility:	10
Air Temperature:	76 degF	Bar. Pressure:	1008
Wind Speed/Dir:	12 / SSW	Wind Gusts:	