



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: 57 Report For 06:00 AM 12-Jun-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	10430	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	8162	Next Casing:	7.000 at 10,159	RKB Elevation (ft):	31	---	---
Proposed TD (ft):	10658	Last BOP Test:	27-May-23	Job Reference RKB (ft):	---	---	---
Hole Made (ft) / Hrs:	126 / 0.75	Next BOP Test:	19-Jun-23	Working Interest:	---	Totals:	---
Average ROP (ft/hr):	168.0					Well Cost (\$):	---

Days (actual / plan): Drilling 5.98 / 22, Flat 0 / 0, Complete 0 / 52, Total 5.98 / 74 DOL: 57

Pers/Hrs: Operator: 3 / 36 Contractor: 14 / 168 Service: 4 / 48 Other: 2 / 24 Total: 23 / 276

Safety Summary: No incidents or events reported. 57 days since LTI. Conducted Safety Meeting.

Current Operations: Picking up core barrels.

Planned Operations: Trip in the hole with core assembly #8, BHA #34, 9 blade and core from 10,430' to 10,460'.

Toolpusher: Steve King, 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	10:30	4.50	10,304	TRPO	Trip out of the hole with core assembly, BHA #32 from 8,330' to 76'.	
10:30	12:00	1.50	10,304	BHAOP	Lay down core assembly, break off bit. All three stabilizers measured 8 1/4" diameter. 30' of core cut, 27.91' of core recovered.	
12:00	13:30	1.50	10,304	BHAOP	Pick up BHA #33 consisting of new TKC 63, 8-3/4" bit, 8 1/2" NB spiral stabilizer, motor and FG roller reamer.	
13:30	15:00	1.50	10,304	TRPI	Trip in the hole from 63' to 4,800'.	
15:00	15:30	0.50	10,304	SERV	Service rig and top drive.	
15:30	16:00	0.50	10,304	TRPI	Trip in the hole from 4,800' to 6,026'.	
16:00	16:30	0.50	10,304	CIRC	Circulate to cool motor at 6,026'.	
16:30	20:45	4.25	10,304	TRPI	Trip in hole from 6,026' to 10,304', staging in to cool motor and performing torque and drag values.	
20:45	21:30	0.75	10,430	DRIL	Drill 8-3/4" hole from 10,304' to 10,430'. WOB test at 40K, 45K and 50K with 60 RPM. RPM test at 60 and 70. GPM 650. TORQ 23-27K. ROP 250-400 FT/HR	
21:30	22:30	1.00	10,430	CIRC	Pump high visc sweep and circulate bottoms up.	
22:30	4:00	5.50	10,430	TRPO	Trip out of the hole from 10,430' to 64' performing torque and drag values.	
4:00	5:00	1.00	10,430	BHAOP	Lay down 8-3/4" PDC bit and BHA.	
5:00	6:00	1.00	10,430	BHAOP	PJSM with Canamera and rig personnel. Make up 8-3/4" core bit. Core bit #8 and BHA #34.	

Management Summary

Tripped out of the hole. Laid down core and coring assembly. 30' of core cut, 27.91' of core recovered. Picked up BHA #33 consisting of new TKC 63, 8-3/4" bit and BHA. Trip in the hole from 64' to 6,026'. Staged in the hole from 6,026' to 10,304' to cool mud motor. Drilled 8-3/4" hole from 10,304' to 10,430'. Circulated bottoms up. Tripped out of the hole from 10,430'. Laid down bit and BHA. Made up 8-3/4" 9 blade core bit w/ sensor and BHA #34. Last survey at 10,165 MD, 8,054' TVD, 65.97° AZI, 103.6° AZI.

Comments

Fuel on hand 10843 gals.
Fuel used 1333 gals.
Total NPT to date 120.25 HR.
No H2S today.
Last survey at 10,165 MD, 8,054' TVD, 65.97° AZI, 103.6° AZI.

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	



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: 57

Report For 06:00 AM 12-Jun-23

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-Jun-23 12:30 at Depth 10,296 ft Mud Pits, Type: Low Solids Non-Dispersed																						
8.41	27				0.2	9.5	0.55		99.45			500										
11-Jun-23 14:00 at Depth 10,304 ft Mud Pits, Type: Low Solids Non-Dispersed																						
8.42	27				0.25	9.4	0.6		99.4			500										

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Corrosion rings - OTHER	1	---	Defoam 14 - GALS	3	---
Engineering - OTHER	2	---	HIB 19 - GALS	4	---
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								
28	1	CANAMER	CCI-713	8.750	10274	30	24	0.0	0.0	0	0	0	8	0	0											
Jets: 14 14 14 14 14 14 14				Out: 10304	Grade: Cutter: /	Dull: CT / WT	Wear: A	Brgs:	Gge:	Pull: TD																
Comments: Core bit CCI-713, BHA. Some chip cutters.																										
29	1	NOV	TKC 63	8.750	10304	126	0.5	252.0	400.0	45	200	27	8	650	2700	248	463	176	702							
Jets: 13 13 13 14 14 14				Out: 10430	Grade: Cutter: 1 / 1	Dull: BT / CT	Wear: A	Brgs:	Gge: 0	Pull: TD																
Comments: New bit technology 3 chip cutters and 1 broken cutter.																										
BHA - No. 33 - BIT, BS, NBS, MMTR, RR, OTHER, XO, 30 HWDP = 976.88																										

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	
10,304	10,430	330.0	400.0	45	50	200	210	25	27	650	650	2,700
Annular Velocity: Drill Collars: 617.6				Drill Pipe: 344.0								
Comments: With mud motor.												

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate: 255	Pick Up: 430	Slack Off: 170	Drag Avg/Max: / 175
Hours on BHA:	Since Inspection: 131.5	Total: 131.5	Jars:	
Hours on Casing/Liner:	Rotating: 136 / 1	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:	170	170	200	170	Desander: 0	Desilter: 0	Degasser: 0
Shaker No 2:	170	170	200	170	Centrifuge 1: 12 (Solids Removal)		Centrifuge 2: 12 (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	45	Two Pre-tour safety meetings held daily with crew. PJSM with Canamera and rig personnel.
First Aid Treatments:	0	Medical Treatments: 0
Lost Time Incidents:	0	Days Since LTI: 57
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	



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: 57

Report For 06:00 AM 12-Jun-23

Weather Information

Sky Condition: Mostly cloudy	Visibility: 10	
Air Temperature: 77 degF	Bar. Pressure: 1009	
Wind Speed/Dir: 5 / S	Wind Gusts:	