



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: 51

Report For 06:00 AM 06-Jun-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	10256	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	8094	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:	6 / 0.0	Next BOP Test:	19-Jun-23	Working Interest:		Totals:	---
Average ROP (ft/hr):						Well Cost (\$):	---
Days (actual / plan):	Drilling 5.91 / 22, Flat 0 / 0, Complete 0 / 52, Total 5.91 / 74						DOL: 51
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	6 / 72	Other:	4 / 48 Total: 27 / 324
Safety Summary: No incidents or events reported. 51 days since LTI. Conducted Safety Meeting.							
Current Operations: Tripping in the hole with 8-3/4" Tricone bit at 8,527'.							
Planned Operations: Ream 8-3/4" hole from 10,250' to 10,256'. Drill core stub. Drill 7' of new hole to 10,263'. Trip out of the hole. Pick up core bit #6. TIH. Core from 10,263' to 10,293'.							
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	7:00	1.00	10,250	CORE	Circulate hole. Drop ball and pump to bottom.	
7:00	15:30	8.50	10,256	CORE	Coring 8 3/4" from 10,250' to 10,256'. 8K-13K WOB, 35 RPM, 300 GPM, 23K TORQ, 0.7 FPH. P-rate dropped off.	
15:30	20:30	5.00	10,256	TRPO	Trip out of the hole from 10,256' to 76'. Pulled 410K coming off bottom.	
20:30	22:00	1.50	10,256	BHAOP	Lay down core barrels. NOTE: Top swivel connection above core barrel was unscrewed. Break off bit. Lay down coring bit # 5, BHA #28. Cut 6.6'. Re-cover 5.5'.	
22:00	0:00	2.00	10,256	REPR	Change out 2 transmissions and 1 hydraulic ram on ST-80.	X
0:00	0:30	0.50	10,256	BHAOP	Make up 8-3/4" TCI bit #26 and BHA #29.	
0:30	6:00	5.50	10,256	TRPI	Trip in the hole 8,527'. Performing torque and drag readings every 5 stands.	

Management Summary

Circulated hole. Dropped ball and pumped down. Cored 8 3/4" from 10,250' to 10,256'. ROP slowed. Tripped out of the hole. Laid down core barrels. NOTE: Top swivel connection above core barrel was unscrewed. Broke off bit. Laid down core bit # 5, BHA #28. Cut 6.6'. Recovered 5.5'. Made up 8-3/4" TCI bit #26 and BHA #29. Tripped in the hole to 8,527' recording torque and drag values every 5 stands.

Comments

Fuel on hand 18337 gals.
Fuel used 1064 gals.
Total NPT to date 98.25 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	

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	
05-Jun-23 14:00 at Depth 10,255 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.45	27	1	1	100	0.25	9.3	0.55		99.3			500						71	81		

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Caustic Soda - 50#SK	1	---	Corrosion rings - OTHER	1	---
Engineering - OTHER	2	---	Lodging - OTHER	1	---
TORKease - GALS	1	---	TORKease Concentrate - GALS	12	---



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Sect: 32 Town: 26S Rng: 9W County: BEAVER State: UT

Report No: 51

Report For 06:00 AM 06-Jun-23

Bit/BHA/Workstring Information

No	Run	Make	Model	Diam	Depth In	This Run		R.O.P.		WOB	RPM	Torque	Wt	Mud		Pump		J. Vel	P. Drp	HHP	JIF
						Dist	Hrs	Avg	Max					Flow	Press						

25	1	CANAMER	CCI-713	8.750	10250	6	8.5	0.7	2.6	13	30	23	8	300	300	92	63	11	119
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Jets: 14 14 14 14 14 14 14 Out: 10256 Grade: Cutter: / Dull: / Wear: Brgs: Gge: Pull:

Comments: Core from 10,250'

Missing 4 out of the 7 gauge cutters.

26	1	SANJOAQ	EP4900	8.750	10256	0	0	0.0	0.0	0	0	0	8	600	344	145	159	55	379
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Jets: 24 24 24 Out: Grade: Cutter: / Dull: / Wear: Brgs: Gge: Pull:

BHA - No. 28 - BIT, NBS, CORE, STAB, CORE, STAB, CORE, STAB, OTHER, JAR, XO, 30 HWDP = 992.79

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	
10,250	10,280	0.7	2.6	10	12	33	60	19	25	300	338	300

Annular Velocity: Drill Collars: Drill Pipe: 158.8

Miscellaneous Drilling Parameters

Hook Loads (lbs): Off Bottom Rotate: 258 Pick Up: 410 Slack Off: Drag Avg/Max: /

Hours on BHA: Since Inspection: 102 Total: 102 Jars:

Hours on Casing/Liner: Rotating: 106.5 / 0 Tripping: 144.25 / 0 ☐ 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	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
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Safety	30	Two Pre-tour safety meetings held daily with crew
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First Aid Treatments: 0 Medical Treatments: 0 Lost Time Incidents: 0 Days Since LTI: 51

☐ BOP Test ☐ Crownamatic Check

Weather Information

Sky Condition: Partly cloudy	Visibility: 10
Air Temperature: 77 degF	Bar. Pressure: 1011
Wind Speed/Dir: 8 / N	Wind Gusts: