



# 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: 48 Report For 06:00 AM 03-Jun-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---	
Measured Depth (ft):	9853	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)	
Vertical Depth (ft):	7670	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:	8 / 0.0	Next BOP Test:	19-Jun-23	Working Interest:		Totals:	---	
Average ROP (ft/hr):						Well Cost (\$):	---	
Days (actual / plan):	Drilling 5.68 / 22, Flat 0 / 0, Complete 0 / 52, Total 5.68 / 74						DOL:	48
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	4 / 48	Other:	3 / 36 Total: 24 / 288	

Safety Summary: No incidents or events reported. 48 days since LTI. Conducted Safety Meeting.

Current Operations: Reaming 8-3/4" hole to 9-1/2" hole at 9,828'.

Planned Operations: Finish reaming to 9,853' plus 10 ft of new hole. Pull out of the hole. Trip in hole with 9-1/2" PDC bit and assembly. Drill 9-1/2" hole ahead.

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	8:45	2.75	9,853	CORE	Cut 8-3/4" core from 9,845" to 9,853'. ROP 5-7 fph, WOB 12K, RPM 30-40, TORQ 22K, GPM 300, PSI 300. Performed WOB and Rot step test from 9,848' to 9,853'.	
8:45	9:00	0.25	9,853	CIRC	Circulate partial bottoms up. Break off core. Verify core had broken off.	
9:00	10:00	1.00	9,853	CIRC	Set back on bottom and circulate full bottoms up.	
10:00	16:30	6.50	9,853	TRPO	Trip out of hole from 9,853' to 79'. Lay down a single that was picked up at start of coring.	
16:30	17:00	0.50	9,853	SERV	Repair hydraulic hose on ST-80	
17:00	19:00	2.00	9,853	CORE	Broke out and laid down coring assembly. Cut 30'. Recovered 28.4'.	
19:00	20:00	1.00	9,853	OTHER	Pull wear bushing, grease and re-install.	
20:00	21:00	1.00	9,853	BHAOP	Made up 9-1/2" insert bit, bit #23 and BHA #26.	
21:00	21:30	0.50	9,853	OTHER	Install turnbuckles on BOP stack.	
21:30	5:00	7.50	9,853	TRPI	Trip in hole from 62' to 9,733'. Performing torque and drag readings every 5 stands.	
5:00	6:00	1.00	9,853	REAM	Safety ream from 9,733' to 9,800'. Ream 8-3/4" hole to 9-1/2" hole from 9,800' to 9,828'.	

### Management Summary

Cut 8-3/4" core from 9,845" to 9,853'. Circulated. Broke off core. Verified core had broken off. Circulated bottoms up. Broke out and laid down coring assembly. Cut 30'. Recovered 28.4'. Made up 9-1/2" insert bit, bit #23 and BHA #26. Tripped in hole to 9,733'. Safety reamed from 9,733' to 9,800'. Ream 8-3/4" hole to 9-1/2" hole from 9,800' to 9,828'.

### Comments

Fuel on hand 14349 gals.  
Fuel used 1119 gals.  
Total NPT to date 96.25 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
03-Jun-23 00:30 at Depth 9,830 ft Mud Pits, Type: Low Solids Non-Dispersed																				
8.40	27	1	1	100	0.2	8.8	0.6	0.6	98.8			500								
02-Jun-23 14:00 at Depth 9,853 ft Mud Pits, Type: Low Solids Non-Dispersed																				
8.40	27	1	1	100	0.2	9.1	0.6	0.6	98.8			500								



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### Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Engineering - OTHER	2	---	HIB 19 - GALS	2	---
Lime - 50#SK	3	---	Lodging - OTHER	1	---
TORKease - GALS	28	---			

### Bit/BHA/Workstring Information

No Run		Make	Model	Diam	Depth In	This Run Dist	R.O.P. Hrs	Avg	Max	WOB	RPM	Torque	Wt	Mud Flow	Pump Press	J. Vel	P. Drp	HHP	JIF
22	1	CANAMER	CCI-713	8.750	9823	30	11.25	2.7	7.4	8	35	21	8	300	300	92	63	11	119
Jets: 14 14 14 14 14 14 14 0					Out: 9853	Grade: Cutter: /	Dull: /	Wear:	Brgs:	Gge:	Pull:								
Comments: Few chip cutters.																			
23	1	SANJOAQ	XLS30DX	9.500	9853	25	1	25.0	25.0	10	178	19	8	600	1523	145	159	55	379
Jets: 24 24 24					Out:	Grade: Cutter: /	Dull: /	Wear:	Brgs:	Gge:	Pull:								
BHA - No. 26 - BIT, BS, RR, MMTR, RR, OTHER, XO, 30 HWDP = 975.53																			

### 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		
9,845	9,853	5.0	7.4	8	12	30	50	21	23	300	300	300	
Annular Velocity: Drill Collars: 158.8				Drill Pipe: 158.8									
9,800	9,828	25.0	25.0	10	10	40	178	19	21	600	600	1,510	
Annular Velocity: Drill Collars: 245.1				Drill Pipe: 245.1									
Comments: With mud motor.													

### Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	Pick Up:	Slack Off:	Drag Avg/Max:	/
Hours on BHA:	Since Inspection: 85.5	Total: 85.5	Jars: 25		
Hours on Casing/Liner: Rotating: 90 / 0	Tripping: 114.25 / 0	<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	30	Two Pre-tour safety meetings held daily with crews.
First Aid Treatments:	Medical Treatments:	Lost Time Incidents:
Days Since LTI: 48		
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	

### Weather Information

Sky Condition: Overcast	Visibility: 10
Air Temperature: 71 degF	Bar. Pressure: 1008
Wind Speed/Dir: 6 / SSW	Wind Gusts: