



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: 42 Report For 06:00 AM 28-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	9800	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	7623	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	27-May-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	276 / 3.0	Next BOP Test:	19-Jun-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	92.0					Well Cost (\$):	---

Days (actual / plan): Drilling 5.68 / 0, Flat 0 / 0, Complete 0 / 0, Total 5.68 / 0 DOL: 42

Pers/Hrs: Operator: 3 / 36 Contractor: 14 / 168 Service: 6 / 72 Other: 6 / 72 Total: 29 / 348

Safety Summary: No incidents or events reported. 42 days since LTI. Conducted Crown Check, Safety Meeting.

Current Operations: Running Gyro on wireline.

Planned Operations: Run gyro, rig down wireline unit, trip out of the hole from 9,773' to surface, make up BHA #22 core assembly, trip in the hole to 9,800', change hole over, cut core from 9,800'.

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	9:00	3.00	9,800	DRIL	Rotate/Slide from 9,524' to 9,800'. Rotating 57K wob, 53 rpm, 600 gpm, 380-540 psi diff, 120-240 fpm. Sliding 71K wob, 700 gpm, 130-240 fpm. Slide 9,629' to 9,670'. 276' drilled, 235' rotating (85.2%), 41' sliding (14.8%). Last survey depth 9,709 MD, 7,857' TVD, 64.81° INC, 107.35° AZI. We are 31.75' low and 22.39' right of the plan.	
9:00	9:30	0.50	9,800	CIRC	Circulate bottoms up. Prepare to trip out of the hole for gyro survey and core.	
9:30	16:00	6.50	9,800	TRPO	Trip out of the hole on elevators from 9,800' to 130'. 500K up, 180K down coming off bottom.	
16:00	17:30	1.50	9,800	BHAOP	Trip out with BHA #20. Lay down same.	
17:30	18:00	0.50	9,800	OTHER	Clean and clear rig floor.	
18:00	18:30	0.50	9,800	BHAOP	Make up BHA #21 with TCI bit.	
18:30	23:00	4.50	9,800	TRPI	Trip in the hole with BHA #21 to 9,773', fill pipe every 30 stands, break circulation at 8,000'.	
23:00	0:00	1.00	9,800	CIRC	Circulate bottoms up at 800 gpm. PJSM with SDI.	
0:00	6:00	6.00	9,800	DIR	Wireline SDI gyro tool from surface to 9,723', pump gyro down from 6,800' to 9,723'.	

Management Summary

Drilled 9 1/2" hole section from 9,524' to 9,800', circulated bottoms up, tripped out of the hole from 9,800' to surface, laid out BHA #20, Make up BHA #21 with TCI, tripped in the hole to 9,773', circulated bottoms up at 9,773', rigged up SDI wireline unit, ran gyro from surface to 9,723'.

Comments

Fuel on hand 13,628 gals.
Fuel used 1,369 gals.
Total NPT to date 94.25 HR.
No H2S today.
Survey at 9,800' MD, 9,709' SD, 64.81° INC, 107.35° AZI, 31.75' low and 22.39' right.

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
27-May-23 14:00 at Depth 9,801 ft Mud Pits, Type: Low Solids Non-Dispersed																				
8.53	27	1	1		0.5	10.5	1.5	0	98.5	0		600	60					90	101	



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: 42

Report For 06:00 AM 28-May-23

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Caustic Soda - 50#SK	2	---	DC-310/CI-100 - OTHER	40	---
Defoam 14 - GALS	4	---	Engineering - OTHER	2	---
Lodging - OTHER	1	---	MDC -	33	---

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
5	3	SANJOAQ	MX-S50R	9.500	9800														
Jets: 24 24 24					Out: 9800	Grade:	Cutter: /	Dull: /	Wear:	Brgs:	Gge:	Pull:							
19	1	NOV	TKC83	9.500	9255	545	8	68.1	300.0	70	60	24	8	650	2300	173	226	86	490
Jets: 14 14 14 14 14 14 14 14					Out: 9800	Grade:	Cutter: /	Dull: /	Wear:	Brgs:	Gge:	Pull:							

BHA - No. 21 - BIT, BS, XO, 30 HWDP = 924.64

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	
9,524	9,800	180.0	240.0	70	70	56	64	23	26	600	700	2,250
Annular Velocity: Drill Collars: 162.9				Drill Pipe: 245.1								

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	280	Pick Up:	420	Slack Off:	230	Drag Avg/Max:	30 / 45
Hours on BHA:	Since Inspection:	52.5	Total:	52.5	Jars:			
Hours on Casing/Liner:	Rotating:	55 / 41	Tripping:	52 / 40	<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	Degasser: 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"	365	24.7	S-135						

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: 42
Accident Description: None to report.		
<input type="checkbox"/> BOP Test	<input checked="" type="checkbox"/> Crownamatic Check	

Weather Information

Sky Condition: Mostly clear	Visibility: 10
Air Temperature: 71 degF	Bar. Pressure: 1008
Wind Speed/Dir: 12 / SSW	Wind Gusts: 5