

**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: 31

Report For 06:00 AM 17-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	6548	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	6430	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	125 / 3.0	Next BOP Test:	20-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	41.67					Well Cost (\$):	---
Days (actual / plan):	Drilling 3.2 / 0, Flat 0 / 0, Complete 0 / 0, Total 3.2 / 0						DOL: 31
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	5 / 60	Other:	3 / 36 Total: 25 / 300
Safety Summary: No incidents or events reported. 31 days since LTI. Conducted Safety Meeting.							
Current Operations: Running Gyro on wireline.							
Planned Operations: Continue drilling ahead building curve to 65°.							
Toolpusher: Shawn Seddell, Clay							
Wellsite Supervisors: Leroy Swearingen, Randy Baldwin						Tel No.:	

**Operations Summary**

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	9:00	3.00	6,545	DRIL	Drill 9 1/2" curve from 6,423' to 6,545' with RSS. 60K WOB, 60 rpm ROT, 600 gpm. ROP dropped to 36 fph and MSE was steadily climbing. Last survey at 6462' MD, 6379' TVD, 40.3° INC, 117.09° AZI, 4.03° DLS.	
9:00	12:30	3.50	6,545	CIRC	Circulate hole to clean out steel shavings and particle drilling beads. Pump a cedar fiber sweep to clean hole. Discuss options for hole cleaning procedures.	
12:30	13:30	1.00	6,545	TRPO	Trip out of the hole from 6,545' to 4,850' for slowed ROP and rising MSE.	
13:30	16:00	2.50	6,545	CIRC	Pump 2X 20 bbl sweeps, 6 minutes apart at the bottom of the intermediate rathole. Circulate to clear bit. Pull up to 4,845' and pump 2X 20 bbl sweeps 6 minutes apart. Circulate sweeps out of hole. Shavings from sweep 1 were light, sweep 2 medium, sweep 3 heaviest, and sweep 4 lighter.	
16:00	18:30	2.50	6,545	TRPO	Trip out of hole from 4,845' to 92'.	
18:30	21:30	3.00	6,545	BHAOP	Laid down NMDC, Black Box, roller reamer and bit. Down load RSS. Made up new 9-1/2" bit with sensor #2232, 2 ea non-mag pony collars, rebuilt roller reamer, NMDC, Black new Box, filter sub and float sub. Test RSS. .	
21:30	23:00	1.50	6,545	WOE	Waited on non-mag stabilizer. Mix mud sweep in pill pit. Put 2 each Scientific ditch magnets in troughs between shakers.	X
23:00	23:30	0.50	6,545	BHAOP	Install non-mag stabilizer.	
23:30	1:30	2.00	6,545	TRPI	Trip in the hole from 111' to 2247'. Fill pipe. Corrosion ring on top of HWDP. Trip in hole to 4,850'. Tool Temp=143*	
1:30	3:00	1.50	6,545	CIRC	Pump 2X40 bbl high-visc cedar fiber sweeps to clean intermediate rathole. Work pipe from 4,850' to 4,840' while pumping and displacing. Less than a cup full of magnetic fines on first circ with 3 to 4 beads on each magnet. Tablespoon full on each magnet on 2nd sweep. No beads.	
3:00	4:00	1.00	6,545	TRPI	Trip in the hole from 4,850' to 5,697'. Tool Temp= 165*. Circulate and cool hole. Trip in to 6,536'. Tool Temp= 205*.	
4:00	4:45	0.75	6,545	CIRC	Circulate and cool hole for Gyro. PJSM.	
4:45	6:00	1.25	6,545	LOG	Rigged up and ran Gyro down drill pipe to 4,600'.	

**Management Summary**

Drilled 9 1/2" curve from 6,423' to 6,545' with RSS. ROP dropped to 36 fph and MSE was steadily climbing. Circulated hole clean. Some steel shavings and particle drilling beads back. Tripped out of the hole from 6,545' to 4,850'. Pumped four 20 bbl sweeps at the bottom of the intermediate rathole. Tripped out of hole. Changed out bit, roller reamer, Black Box, non-mag spiral stabilizer. Picked up two non-mag pony collars to shorten distance between stabilizer and roller reamer. Test RSS. Tripped in the hole to 4,850'. Pumped two 40 bbl sweeps to clean intermediate rathole. Staged in hole to 6,536'. Tool temp - 205\*. Circulated and cooled hole for gyro survey. Rigged up and ran Gyro to 4,600'.

**Comments**

Fuel on hand 14,560 gals.  
 Fuel used 1,187 gals.  
 Total NPT to date 80.75 HR  
 No H2S today.

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**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	
17-May-23 01:00 at Depth 6,200 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.30	28					8.3	0.1		99.9			800									
16-May-23 13:00 at Depth 6,545 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.30	28					8.5	0.1		99.9			850									

**Mud Consumables**

Item Description			Qty.	Cost	Item Description			Qty.	Cost
API Gel - 100#SK			21	---	Caustic Soda - 50#SK			2	---
DC-310/CI-100 - SACK			20	---	Defoam 14 - GALS			1	---
PrimeSeal/MaxiSea1117 - 50#SK			10	---	Sawdust - 50#SK			14	---
Soda Ash - 50#SK			1	---	Walnut - 50#SK			10	---
Xanthan Gum - 50#SK			2	---					

**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	
12	1	NOV	TKC73 A1	9.500	5957	591	14	42.2	65.0	60000	60	18000	8	600	1200	159	190	66	413
Jets: 15 15 15 15 15 15 15				Out: 6545		Grade: Cutter: /		Dull: /		Wear:		Brgs:		Gge:		Pull:			
13	1	NOV	TKC 83	9.500	6545	0	0	0.0	0.0	0	0	0	8	600	0	160	191	67	415
Jets: 14 14 14 14 14 14 14 14				Out:		Grade: Cutter: /		Dull: /		Wear:		Brgs:		Gge:		Pull:			
BHA - No. 14 - BIT, OTHER, STAB, 2 PC, RR, DCM, 3 OTHER, 9 DC, XO, 30 HWDP = 1306.42																			

**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	Avg	Max
6,423	6,545	45.0	71.0	60	60	60	60	22,000	16,000	600	600	1,200	
Annular Velocity: Drill Collars:				335.5	Drill Pipe:				245.1				

**Miscellaneous Drilling Parameters**

Hook Loads (lbs):		Off Bottom Rotate: 240,000		Pick Up: 300,000		Slack Off: 210,000		Drag Avg/Max: /	
Hours on BHA:		Since Inspection: 45.5		Total: 45.5		Jars:			
Hours on Casing/Liner:		Rotating: 45.5 / 0		Tripping: 67.25 /		<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	170	172		
Shaker No 2:	170	170	170	170	Centrifuge 1: 24	Centrifuge 2: 24
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	5.5FH					



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## Safety Information

Meetings/Drills	Time	Description
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Safety	45	Two Pre-tour safety meetings held daily with crews. PJSM for Gyro.
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First Aid Treatments:	0	Medical Treatments:	0	Lost Time Incidents:	0	Days Since LTI:	31
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<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check
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## Weather Information

Sky Condition:	Mostly sunny	Visibility:	10
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Air Temperature:	80 degF	Bar. Pressure:	1011
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Wind Speed/Dir:	6 / S	Wind Gusts:	
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