

**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: 40

Report For 06:00 AM 26-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	9255	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:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	403 / 5.0	Next BOP Test:	28-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	80.6					Well Cost (\$):	---
Days (actual / plan):	Drilling 5.34 / 0, Flat 0 / 0, Complete 0 / 0, Total 5.34 / 0						DOL: 40
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	6 / 72	Other:	3 / 36 Total: 26 / 312
Safety Summary: No incidents or events reported. 40 days since LTI. Conducted Safety Meeting.							
Current Operations: Testing BOPE.							
Planned Operations: Test BOPE, Make up BHA #20, trip in the hole to 9,255', drill 9 1/2" hole section from 9,255'.							
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	11:00	5.00	9,255	DRIL	Drill 9 1/2" hole from 8,817' to 9,255', 18K-25.2K torque, 600-700 gpm. Running 3 mud coolers. Slide from 8,879' to 8,907'. Slide from 9,165' to 9,196'. Survey at 9,255' MD, 9,171' SD, 60.75° INC, 105.87° AZI, 24.36' low and 8.76' right.	
11:00	12:00	1.00	9,255	CIRC	Circulate 2X bottoms up.	
12:00	21:30	9.50	9,255	TRPO	Trip out 10 stands of insulated drill pipe from 9,255' to 8,065'. Pick up 410K, slack off 180K, string wt 245K. Trip out laying down singles from 8,065' to 3,364'. Trip in hole with 24 stands of insulated drill pipe from derrick. Trip out laying down singles to 3,364'.	
21:30	23:30	2.00	9,255	TRPO	Trip out of the hole from 3,364' to BHA.	
23:30	0:00	0.50	9,255	BHAOP	Rack back HWDP.	
0:00	1:00	1.00	9,255	BHAOP	Break bit, rack back BHA #19, lay out motor and bit. Note: Motor drained good with minimal movement in bearing assembly.	
1:00	2:30	1.50	9,255	WELLHD	Attempt to remove wear bushing, pulled 18k over with no movement in wear bushing, slack off and verify all lock screws backed out at intermediate casing head, attempt to work torque down to wear bushing with no success. Contact Stream-flo for max overpull on puller, Pull 22k over and work link tilts on TDS. Pull wear bushing. Note: Observed outer area of wear bushing coated with cuttings.	
2:30	6:00	3.50	9,255	BOPT	PJSM. Rig up testers. Make up TIW valve, install test plug. Close pipe rams. Test pipe rams 250 psi low, 5000 psi high, Test annular 250 psi low, 2,500 psi high. Test pipe rams 250 psi low, 5,000 psi high. Test inner and outer valves on mud cross 250 psi low, 5000 psi high. Test inner and outer valves on kill side 250 psi low, 5,000 psi high. Test witnessed by DSM. Note: All choke valves on manifold were tested to 250 psi low and 5000 psi high while tripping out of the hole. All test good and witnessed by DSM.	

Management Summary

Drilled 9 1/2" hole section from 8,817' to 9,255', circulated two bottoms up, tripped out of the hole from 9,255' to 8,065', laid out insulated drill pipe from 8,065' to 3,364', tripped in remaining stands of insulated drill pipe from derrick and laid out same, pulled out of the hole from 3,364' to BHA, racked back BHA # 19, laid out motor and bit, worked wear bushing from wellhead, tested BOPE.

Comments

Fuel on hand 16,120 gals.
Fuel used 1,441 gals.
Total NPT to date 92.75 HR.
No H2S today.

Survey at 9,255' MD, 9,171' SD, 60.75° INC, 105.87° AZI, 24.36' low and 8.76' 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	



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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	
26-May-23 04:00 at Depth 8,780 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.40	27	1	1		0.2	10.8	0.5		99.5			700									
25-May-23 15:00 at Depth 9,255 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.50	27	1	1		0.25	11.1	1.25		98.75			700									

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Caustic Soda - 50#SK	1	---	Corrosion rings - OTHER	1	---
Defoam 14 - GALS	1	---	Engineering - OTHER	2	---
Lodging - OTHER	1	---	MDC -	41	---

Bit/BHA/Workstring Information

No Run Make Model Diam				Depth In	This Run Dist Hrs	R.O.P. Avg Max	WOB RPM Torque	Mud Wt Flow Press	Pump J. Vel P. Drp HHP JIF
18	1	BAKER	D406V	9.500	8585	705	8.5 82.9 300.0	57 70 22 9 600 2330	185 261 91 489
Jets: 14 14 14 16 16 16				Out: 9255	Grade: Cutter: 1 / 1	Dull: BT / WT	Wear: S	Brgs: X	Gge: 1 Pull: BHA
BHA - No. 19 - BIT, MMTR, RR, PC, DCM, MWD, 2 PC, 3 OTHER, XO, 28 HWDP = 986.19									

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	
8,817	9,255	87.6	185.0	57	57	70	73	22	24	700	700	2,330
Annular Velocity: Drill Collars:				190.1	Drill Pipe: 286.0							

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	230	Pick Up:	360	Slack Off:	210	Drag Avg/Max:	10 / 20
Hours on BHA:	Since Inspection:	44.5	Total:	44.5	Jars:			
Hours on Casing/Liner:	Rotating:	47 / 33	Tripping:	36 / 24	<input checked="" type="checkbox"/> Wear Bushing Installed			

Rig Information

Equipment Problems:	Wear bushing sticking in in intermediate wellhead bowl.						
Location Condition:	Good.						
Transport:	Received core bit.						

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: 40
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	

Weather Information

Sky Condition:	Cloudy	Visibility:	10
Air Temperature:	75 degF	Bar. Pressure:	1004
Wind Speed/Dir:	23 / SW	Wind Gusts:	15