



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: 16

Report For 06:00 AM 02-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	4816	Last Casing:	16.000 at 1,136	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	4815	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	463 / 8.83	Next BOP Test:	20-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	52.42					Well Cost (\$):	---
Days (actual / plan):	Drilling 1.7 / 0,	Flat 0 / 0,	Complete 0 / 0,	Total 1.7 / 0			DOL: 16
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	5 / 0	Other:	3 / 6
						Total:	25 / 210
Safety Summary: No incidents or events reported. 16 days since LTI. Conducted Safety Meeting.							
Current Operations: Drilling 14-3/4" hole at 4,816'.							
Planned Operations: Drill to casing point. Make wiper trip. Strap out of the hole. Rig up and run 11-3/4" 65# casing.							
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	7:00	1.00	4,353	TRPO	TOOH f/ 2,153' t/ 1,957'. Pulling tight, 50K - 100K over string weight. Kelly up on each stand and washing out of hole.	
7:00	10:30	3.50	4,353	TRPO	TOOH on elevators f/ 1,957' t/ 166'.	
10:30	13:00	2.50	4,353	DIR	Lay down directional tools, mud motor and bit.	
13:00	16:00	3.00	4,353	DIR	Pick up new 7/8 5.7 stage, 0.13 rev/gal mud motor, full gauge roller reamer and MWD tools.	
16:00	20:50	4.83	4,353	TRPI	TIH t/4,339' picking up an additional std of 8" drill collars and 5 additional stds weight pipe.	
20:50	21:00	0.17	4,353	CIRC	Filled drill pipe.	
21:00	21:10	0.17	4,353	TRPI	TIH f/4,339' t/4,350'. Ran survey. TIH t/4,353'.	
21:10	21:30	0.33	4,353	DRIL	Perform RPM step test with 55K WOB. Excessive surface chatter until 100 rpm was reached.	
21:30	23:30	2.00	4,527	DRIL	Drill 14 3/4-inch intermediate section f/4,353' t/4,527', 55K WOB, 100 rpm ROT, 20-33 K ft-lb TORQ, 1,050-1,150 gpm, 3,450 psi SPP, Diff 100-500. 50-150 ROP.	
23:30	0:30	1.00	4,535	DRIL	Attempt to get MWD signal to slide. Drilled f/4,527' t/4,535' while attempting to slide.	X
0:30	3:00	2.50	4,690	DRIL	Perform WOB step test. Drill 14 3/4-inch intermediate section f/4,535' t/4,690', 80K WOB, 100 rpm ROT, 19-23 K ft-lb TORQ, 1,050 gpm, 3,200 psi SPP, Diff 400-650. 50-100 ROP.	
3:00	4:20	1.33	4,750	DRIL	Drill 14 3/4-inch intermediate section f/4,690' t/4,750', 85K WOB, 100 rpm ROT, 19-23 K ft-lb TORQ, 1,060 gpm, 3,280 psi SPP, Diff 400-500. 60-100 ROP.	
4:20	6:00	1.67	4,816	DRIL	Drill 14 3/4-inch intermediate section f/4,750' t/4,816', 80K WOB, 100 rpm ROT, 17-20 K ft-lb TORQ, 1,060 gpm, 3,270 psi SPP, Diff 400-500. 60-100 ROP.	

Management Summary

TOOH f/ 2,153' t/ 1,957'. Pulling tight, 50K - 100K over string weight. Kelly up on each stand and washing out of hole. TOOH on elevators f/ 1,957' t/ 166'. Lay down directional tools, mud motor and bit. TIH t/4.353' with new bit and directional tools picking up an additional stand of 8" drill collars and 5 additional stands weight pipe. Perform RPM step test. Excessive surface chatter until 100 rpm was reached. Continue drilling 14 3/4-inch intermediate section f/4,353' t/4,527', Perform WOB step test f/ 55K-80K. Continue drilling 14 3/4-inch intermediate section f/4,527' t/4,816', 80K-85K WOB, 100 rpm ROT, 19-23 K ft-lb TORQ, 1,060 gpm, 3,280 psi SPP, Diff 400-500. 60-100 ROP.

Comments

Fuel on hand 10,157 gals.
Fuel used 1,689 gals.
Total NPT to date 11.75 HR

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	J-55	



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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				
01-May-23 16:00 at Depth 4,353 ft Mud Pits, Type: Low Solids Non-Dispersed																								
9.10	38	13	7	4.8	1	8	5.7		94.3	0.1		3100	80		3	3	10	127		0				

Mud Consumables

Item Description			Qty.	Cost	Item Description			Qty.	Cost
API Gel - 100#SK			54	---	DMA/SPA - 50#SK			11	---
Micro C - 50#SK			6	---	PAC LV - 50#SK			10	---
PALlets/Wraps - OTHER			2	---	Poly Vis - 50#SK			4	---
Soda Ash - 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	HPH	JIF
3	1	NOV	TKC66-A4	14.750	1181	3170	16	0.0	0.0	0	0	0	0	0	0	258	537	376	1443
Jets: 18 18 18 18 18 18					Out: 4353		Grade: Cutter: /			Dull: /		Wear:		Brgs:		Gge:		Pull:	
4	1	SANJOAQ	TKC83	14.750	4353	433	9	48.1	90.0	80	335	19	9	1050	3200	228	424	260	1129
Jets: 15 15 15 15 16 16 16 16					Out:		Grade: Cutter: /			Dull: /		Wear:		Brgs:		Gge:		Pull:	
BHA - No. 4 - BIT, MMTR, RR, DCM, PC, HSUB, OTHER, PC, XO, 12 DC, XO, 30 HWDP = 1391.45																			

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		
4,353	4,816	60.0	100.0	80	85	100	100	19	22	1,050	1,050	3,200	
Annular Velocity: Drill Collars: 169.8				Drill Pipe: 137.4									

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate: 235,000	Pick Up: 250,000	Slack Off: 220,000	Drag Avg/Max: /
Hours on BHA:	Since Inspection: 32.25	Total: 32.25	Jars:	
Hours on Casing/Liner:	Rotating: 32.25 / 25	Tripping: 16 /	<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:	120	120	120	120	Desander: 0	Desilter: 0	Degasser: 0
Shaker No 2:	120	120	120	120	Centrifuge 1: 18 (Solids Removal)		Centrifuge 2: 18 (Solids Removal)
Shaker No 3:	120	120	120	120			

Drill Pipe Inventory

DP Size	Joints	Weight	Grade	Thread	DP Size	Joints	Weight	Grade	Thread
5.5	365	24.7	S-135	OTHER					

Safety Information

Meetings/Drills	Time	Description
Safety	30	Two Pre-tour safety meetings held daily with crews. Review planned operations. Drilling ahead.
First Aid Treatments:	Medical Treatments:	Lost Time Incidents:
Days Since LTI: 16		
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	

Weather Information

Sky Condition: Partly Cloudy	Visibility: 10
Air Temperature: 76 degF	Bar. Pressure: 998
Wind Speed/Dir: 23 / S	Wind Gusts: