

**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: 17

Report For 06:00 AM 03-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	4845	Last Casing:	16.000 at 1,136	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	4844	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	29 / 1.0	Next BOP Test:	20-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	29.0					Well Cost (\$):	---
Days (actual / plan):	Drilling 1.74 / 0, Flat 0 / 0, Complete 0 / 0, Total 1.74 / 0					DOL:	17
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	5 / 60	Other:	3 / 0
						Total:	25 / 264
Safety Summary: No incidents or events reported. 17 days since LTI. Conducted Safety Meeting.							
Current Operations: Running 11-3/4" 65# BTC casing.							
Planned Operations: Finish running 11-3/4" 65# casing to 4,837'. Cement same.							
Toolpusher: Shawn Seddell, Jason							
Wellsite Supervisors: Leroy Swearingen, Randy Baldwin						Tel No.:	

Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	8:00	2.00	4,816	CIRC	Circulate hole clean for running 11 3/4" intermediate casing. Fill pill tank with fresh water.	
8:00	8:30	0.50	4,816	REPR	Change swab in No. 3 mud pump.	X
8:30	9:30	1.00	4,845	DRIL	Drill 14 3/4" hole to casing point f/4,818' t/4,845' to obtain proper stick up. 80K WOB, 100 rpm ROT, 17-20 K ft-lb TORQ, 1,060 gpm, 3,270 psi SPP, Diff 400-500. 50-100 ROP.	
9:30	10:00	0.50	4,845	CIRC	Circulate bottoms up.	
10:00	16:00	6.00	4,845	WIPE	Wiper trip to 16" casing shoe and back in. No tight spots.	
16:00	16:45	0.75	4,845	CIRC	Circulate bottoms up.	
16:45	2:30	9.75	4,845	TRPO	Trip out of hole f/4,845' t/485'. Strap out was 3 tenths of a foot difference. Lay down 8" DC's, directional tools, mud motor and bit. Some of the drill pipe and HWDP and all of the 8" drill collars were torqued up. Use rig tongs instead of ST 80 to break out.	
2:30	3:00	0.50	4,845	OTHER	Pulled wear bushing.	
3:00	3:30	0.50	4,845	OTHER	Cleared and cleaned rig floor.	
3:30	4:30	1.00	4,845	CASE	Hold detailed safety meeting with B&L Casing Service along with rig crew and DSM. Rig up to run 11-3/4" 65# casing.	
4:30	6:00	1.50	4,845	CASE	Make up shoe track. Run 11-3/4" 65 ppf, JFE110T BTC casing t/150 ft. Rig up CRT.	

Management Summary

Circulated and cleaned hole @ 4,816' to running casing. Drill 14 3/4" hole f/4,816' t/4,845' to obtain proper stick up. 80K WOB, 100 rpm ROT, 17-20 K ft-lb TORQ, 1,060 gpm, 3,270 psi SPP, Diff 400-500. 50-100 ROP. Circulate bottoms up. Wiper trip to 16" casing shoe and back in. No tight spots. Trip out of hole f/4,845' t/485'. Strap out was 3 tenths of a foot difference. Lay down 8" DC's, directional tools, mud motor and bit. Pulled wear bushing. Held Safety meeting for running casing. Made up shoe track. Run 11-3/4" 65 ppf, JFE110T BTC casing t/150 ft. Rig up CRT.

Comments

Fuel on hand 16,413 gals.
Fuel used 1,244 gals.
Total NPT to date 12.25 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	

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							
02-May-23 15:00 at Depth 4,845 ft Mud Pits, Type: Low Solids Non-Dispersed																											
9.10	40	14	6	5.2	1	8	5.7		94.3	0.25		30000	80		3	4	11	127	148	0							



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Sect: 32 Town: 26S Rng: 9W County: BEAVER State: UT

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Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
API Gel - 100#SK	80	---	DMA/SPA - 50#SK	10	---
Engineering - OTHER	1	---	Micro C - 50#SK	3	---
PAC LV - 50#SK	8	---	PALlets/Wraps - OTHER	2	---
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	HP	JIF	
4	1	SANJOAQ	TKC83	14.750	4353	462	10	46.2	100.0	80	335	20	9	1050	3200	228	424	260	1129	
Jets: 15 15 15 15 16 16 16 16					Out: 4845		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	Avg	Max
4,818	4,845	60.0	100.0	80	80	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:	Pick Up:	Slack Off:	Drag Avg/Max:	/
Hours on BHA:	Since Inspection: 33.25	Total: 33.25	Jars:		
Hours on Casing/Liner:	Rotating: 33.25 / 26	Tripping: /		<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	
Shaker No 2:	120	120	120	120	Centrifuge 1: 14
Shaker No 3:	120	120	120	120	Centrifuge 2: 14

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	45	Two Pre-tour safety meetings held daily with crews. PJSM for running casing.
First Aid Treatments:	Medical Treatments:	Lost Time Incidents:
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	Days Since LTI: 17

Weather Information

Sky Condition: Partly Cloudy	Visibility: 8
Air Temperature: 68 degF	Bar. Pressure:
Wind Speed/Dir: 13 / SSW	Wind Gusts: 20