



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: 39 Report For 06:00 AM 25-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	8852	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	---
Vertical Depth (ft):	8715	Next Casing:		RKB Elevation (ft):	31	AFE (\$)	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		Actual (\$)	---
Hole Made (ft) / Hrs:	267 / 3.5	Next BOP Test:	28-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	76.29					Well Cost (\$):	---

Days (actual / plan): Drilling 5.14 / 0, Flat 0 / 0, Complete 0 / 0, Total 5.14 / 0 DOL: 39

Pers/Hrs: Operator: 3 / 36 Contractor: 14 / 168 Service: 6 / 72 Other: 8 / 96 Total: 31 / 372

Safety Summary: No incidents or events reported. 39 days since LTI. Conducted Crown Check, Safety Meeting.

Current Operations: Drilling 9 1/2" hole section at 8,852'.

Planned Operations: Drill 9 1/2" hole section to 9,085', circulate bottoms up, trip out of the hole from 9,085', lay out insulated drill pipe, make up BHA #20.

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	15:30	9.50	8,585	LOG	Logging with Ultrasonic Borehole ImagerUBI. Rig down UBI. Rig up FMI. Logging with Formation Micro Imager. Maximum temperature on tools was 292° F. Rig down SLB Wireline tools.	
15:30	16:30	1.00	8,585	BHAOP	Stage Baker Hughes 406 bit with puck sensor and directional tools.	
16:30	18:30	2.00	8,585	BHAOP	Make up BHA #19 with 1° fixed motor, Baker 406 bit, trip in the hole to 930'.	
18:30	19:30	1.00	8,585	BHAOP	Run in with 3 stands of 6.75:" drill collars from derrick. Lay down same.	
19:30	2:30	7.00	8,585	TRPI	Trip in the hole from 930' to 8,585'. Stage in from 6,000' to 8,585' in 500' increments. Highest temperature observed was 284° at 8,371'. Note: Ran 25 stands 2,378' of non-insulated S-135 drill pipe on top of BHA, crossed over to insulated drill pipe at 3,369'. Visually inspected inner coating on insulated drill pipe on trip in the hole. laid out 3 joints due to inner coating peeling.	
2:30	6:00	3.50	8,852	DRIL	Drilling 9 1/2" hole from 8,585' to 8,852'. 60-95 rpm step test 60-100 rpm's, 50-57 wob step test. 225-345 fph, 18K-25.2K torque, 600-700 gpm. Running 3 mud coolers. Beginning temp 196° on MWD tool. Slide from 8,782' to 8,817'.	

Management Summary

Logged well with FMI and UBI, rigged down SLB wireline unit, staged out BHA, made up BHA #19 with 1° fixed motor, ran in the hole with 3 stands of 6 3/4" drill collars from the derrick. Laid out same, tripped in the hole from 930' to 6,000', staged in the hole from 6,000' to 8,585', max temperature observed was 284° at 8,371'. Drilled 9 1/2" hole from 8,585' to 8,852'.

Comments

Fuel on hand 17,561 gals.
Fuel used 1,179 gals.
Total NPT to date 92.75 HR.
No H2S today.
Visually inspected inner coating on insulated drill pipe on trip in the hole. laid out 3 joints due to inner coating peeling.

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
24-May-23 14:30 at Depth 8,585 ft Mud Pits, Type: Low Solids Non-Dispersed																				
8.40	27	1	1	100	0.2	11.1	0.5	0	100			700								



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Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
DC-310/CI-100 - OTHER	20	---	Engineering - OTHER	2	---
Lodging - OTHER	1	---	Trucking - OTHER	5	---

Bit/BHA/Workstring Information

No Run		Make	Model	Diam	Depth In	This Run Dist	R.O.P. Hrs	R.O.P. Avg	R.O.P. Max	WOB	RPM	Torque	Wt	Mud Flow	Pump Press	J. Vel	P. Drp	HHP	JIF
18	1	BAKER	D406V	9.500	8585	267	3.5	76.3	375.0	57	75	25	8	700	1650	216	346	141	649
Jets: 14 14 14 16 16 16					Out:	Grade: Cutter: /		Dull: /		Wear:	Brgs:	Gge:	Pull:						
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	
8,585	8,852	65.0	355.0	57	57	75	100	25	28	650	700	1,650
Annular Velocity: Drill Collars: 176.5				Drill Pipe: 265.5								

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	225	Pick Up:	342	Slack Off:	216	Drag Avg/Max:	5 / 10
Hours on BHA:	Since Inspection:	39.5	Total:	39.5	Jars:			
Hours on Casing/Liner:	Rotating:	42 / 28	Tripping:	30 / 18	<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	81	21.9	S-135	OTHER	5.5	250	24.7	V-150	OTHER

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: 39
<input type="checkbox"/> BOP Test <input checked="" type="checkbox"/> Crownamatic Check		

Weather Information

Sky Condition:	Partly Cloudy	Visibility:	10
Air Temperature:	74 degF	Bar. Pressure:	1009
Wind Speed/Dir:	5 / WSW	Wind Gusts:	15