



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: 36

Report For 06:00 AM 22-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	8085	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	7087	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	501 / 11.5	Next BOP Test:	28-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	43.57					Well Cost (\$):	---
Days (actual / plan):	Drilling 4.55 / 0, Flat 0 / 0, Complete 0 / 0, Total 4.55 / 0						DOL: 36
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	6 / 72	Other:	5 / 60
						Total:	28 / 336
Safety Summary: No incidents or events reported. 36 days since LTI. Conducted Crown Check, Safety Meeting.							
Current Operations: Changing out saver sub.							
Planned Operations: Pick up insulated drill pipe and rack back in the derrick, make up BHA #17, trip in the hole to 8,085', drill 9 1/2" hole section.							
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	10:30	4.50	7,584	TRPI	Trip in hole from 2,810 to 7,584'. Fill pipe at 3,000'. Test tools at 4,866'. test good. Stage in from 6,000' to 7,584' in 500' increments. High temperature seen was 210°.	
10:30	22:00	11.50	8,085	DRILR	Drilling 9 1/2" hole from 7,584' to 8,085'. 60-100 rpm step test, 55-65 wob step test. 121-286 fph, 13.3K-26.5K torque, 600 gpm. Turn off cooler 1 for temperature test at 7584'. Beginning temp 185° on MWD tool. Slide f/7,708 t/7,727, Slide f/7,764' t/7,798, Slide f/7,827' t/7,851', Slide f/7,859' t/7,879', Slide f/7,891' t/7,916'. Slide f/7,923' t/7,934'. Slide f/7,954' t/7,964'. Slide f/7,986' Slide f/8,014' t/8,030'. Note: Turn off cooler 2 at 7867'. Reduced weight on bit at 7,990' to 55k to see if assembly would hold or drop in rotation.	
22:00	22:45	0.75	8,085	CIRC	Circulate bottoms up strokes at 600 GPM.	
22:45	23:15	0.50	8,085	OTHER	Drop gyro in drill string, let fall for 15 mins, pump gyro down at 200 GPM to top of float sub at 7,956', kill pump and let sit for 10 mins.	
23:15	4:00	4.75	8,085	TRPO	Trip out of the hole from 8,085' to BHA.	
4:00	4:30	0.50	8,085	BHAOP	Rack back HWDP and Collars.	
4:30	5:30	1.00	8,085	BHAOP	Break bit, rack back BHA #16, retrieve gyro, remove sensor #2232 from bit	
5:30	6:00	0.50	8,085	OTHER	Change out saver sub.	

Management Summary

Tripped in the hole from 2,810 to 6,000', staged in the hole from 6,000' to 7,584' highest temperature observed was 210 deg f. Drilled 9 1/2" hole from 7,584' to 8,085' slide approximately 66%. Circulated bottoms up. Dropped gyro. Tripped out of the hole from 8,085' to BHA. Break bit out and rack BHA #16.

Comments

Fuel on hand 13,685 gals.
Fuel used 1,751 gals.
Total NPT to date 92.75 HR.
No H2S today.

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

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
21-May-23 23:30 at Depth 7,589 ft Mud Pits, Type: Low Solids Non-Dispersed																				
8.40	27					11	0.5		99.5			750								
21-May-23 14:00 at Depth 7,780 ft Mud Pits, Type: Low Solids Non-Dispersed																				
8.40	27					11	0.5		99.5			800								



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Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Caustic Soda - 50#SK	1	---	DC-310/CI-100 - OTHER	10	---
Engineering - OTHER	2	---	Lodging - OTHER	1	---
Walnut - 50#SK	4	---			

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	
16	1	NOV	TCK 83	9.500	7584	501	11.5	43.6	175.0	60	75	22	8	600	1250	160	193	67	418
Jets: 14 14 14 14 14 14 14 14					Out: 7584		Grade: Cutter: /			Dull: /			Wear:		Brgs:		Gge:		Pull:
BHA - No. 17 - BIT, MMTR, RR, PC, DCM, MWD, 2 PC, 3 OTHER, 9 DC, XO, 30 HWDP = 1323.66																			

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
7,584	8,085	50.0	235.0	60	65	70	100	20	25	600	600	1,250	
Annular Velocity: Drill Collars:				335.5	Drill Pipe:				245.1				

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	220	Pick Up:	300	Slack Off:	210	Drag Avg/Max:	5 / 15
Hours on BHA:	Since Inspection:	25.5	Total:	25.5	Jars:	0		
Hours on Casing/Liner:	Rotating:	28 / 14	Tripping:	12 / 0	<input checked="" type="checkbox"/> Wear Bushing Installed			

Rig Information

Equipment Problems:	None.
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
Shaker No 2:	170	170	170	170	Centrifuge 1:	5.5 (Solids Removal)	Centrifuge 2:	5.5 (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:	36
<input type="checkbox"/>	BOP Test		<input checked="" type="checkbox"/>	Crownamatic Check				

Weather Information

Sky Condition:	Partly cloudy	Visibility:	10
Air Temperature:	78 degF	Bar. Pressure:	1012
Wind Speed/Dir:	6 / WSW	Wind Gusts:	5