



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: 32

Report For 06:00 AM 18-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	6754	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	6602	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	206 / 1.0	Next BOP Test:	20-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	206.0					Well Cost (\$):	---
Days (actual / plan):	Drilling 3.24 / 0, Flat 0 / 0, Complete 0 / 0, Total 3.24 / 0						DOL: 32
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	5 / 60	Other:	3 / 36 Total: 25 / 300
Safety Summary: No incidents or events reported. 32 days since LTI. Conducted Crown Check, Safety Meeting.							
Current Operations: Troubleshooting encoder on TDS.							
Planned Operations: Repair encoder. Drill 9 1/2" curve from 6,754'.							
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	8:30	2.50	6,545	SURV	Wireline SDI gyro tool from surface to 6,148', hole angle 26°. Would not pass through x-over sub to drill collars.	
8:30	10:00	1.50	6,545	SURV	Pull gyro tool to surface and change configuration. Was decided to make a second run to attempt to reach TD.	
10:00	13:00	3.00	6,545	SURV	Make 2nd attempt to run wireline. Run gyro to 6,409', top of float sub. Pull tool and rig down SDI.	
13:00	14:00	1.00	6,610	DRIL	Drill 9 1/2" curve from 6,545' to 6,610' with RSS. 60K WOB, Step test rotary from 60 - 100 rpm ROT, 600 gpm. Last survey at 6,545' MD, 6,442' TVD, 45.24° INC, 119.7° AZI, 8.02° DLS.	
14:00	15:00	1.00	6,610	DIR	Pulsar quit on directional tools. Pump fresh water and work pipe attempting to restart.	
15:00	15:30	0.50	6,610	CIRC	Circulate bottoms up.	
15:30	18:00	2.50	6,610	TRPO	Trip out of hole for directional tools from 6,610' to BHA.	
18:00	20:30	2.50	6,610	BHAOP	Rack back Drill collars, laid down NMDC, Black Box, roller reamer and bit, laid out RSS. Pick up new RSS. Made up new 9-1/2" bit with sensor #2232. Pick up BHA. Shallow test RSS. Good test.	
20:30	22:30	2.00	6,610	TRPI	Trip in the hole from 913' to 6,610'. Fill pipe every 3,000'. Corrosion ring on top of HWDP.	
22:30	0:30	2.00	6,610	CIRC	Pump 80 bbl high vis sweep to remove any residual steel shot. Circulate surface to surface strokes.	
0:30	4:00	3.50	6,754	DIR	Drill 9 1/2" curve from 6,610' to 6,754' with RSS. 60K WOB, 600 gpm. Last survey at 6,729' MD, 6,552' TVD, 47.61° INC, 113.68° AZI, 1.76° DLS.	
4:00	6:00	2.00	6,754	CIRC	Pull to 6,725' troubleshoot encoder on TDS.	

Management Summary

Wireline SDI gyro tool from surface to 6,148', hole angle 26°. Tool would not pass-through x-over sub to drill collars. Pulled gyro tool to surface and change tool configuration. Ran gyro to 6,409', top of float sub. Pulled tool and rigged down SDI. Drilled 9 1/2" curve from 6,545' to 6,610' with RSS. Pulsar quit on directional tools. Pumped fresh water and work pipe attempting to restart. Circulated bottoms up. Tripped out of hole for directional tools from 6,610' to BHA. Laid out RSS, picked up new RSS and bit. Tripped in the hole to 6,610'. Pumped 80 bbl high vis sweep to remove any residual steel shot. Circulate surface to surface strokes. Drilled 9 1/2" curve from 6,610' to 6,754' with RSS. Pulled to 6,725' troubleshoot encoder on TDS.

Comments

Fuel on hand 9,464 gals.
Fuel used 5,096 gals.
Total NPT to date 80.75 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	



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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	
18-May-23 02:00 at Depth 6,545 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.30	27					8.5	0.2		99.8			800									
17-May-23 14:00 at Depth 6,559 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.30	28					8.8	0.2		99.8			850									

Mud Consumables

Item Description			Qty.	Cost	Item Description			Qty.	Cost
API Gel - 100#SK			12	---	Engineering - OTHER			2	---
PALlets/Wraps - OTHER			2	---	PrimeSeal/MaxiSea1117 - 50#SK			7	---
Sawdust - 50#SK			3	---	TORKease - GALS			4	---
Xanthan Gum - 50#SK			3	---					

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	
13	1	NOV	TKC 83	9.500	6545	65	1	65.0	65.0	50	60	23	8	600	1150	160	190	67	413	
Jets: 14 14 14 14 14 14 14 14					Out: 6610		Grade: Cutter: 1 / 0		Dull: ER / NO			Wear: N		Brgs: X		Gge: 0		Pull: DTF		
Comments: Bit had a small area in the center that showed signs of washing out around one of the cutter pockets.																				
14	1	NOV	TKC 83	9.500	6610	144	3.5	41.1	85.0	55	50	25	8	600	1205	160	190	67	413	
Jets: 14 14 14 14 14 14 14 14					Out:		Grade: Cutter: /			Dull: /			Wear:		Brgs:		Gge:		Pull:	
BHA - No. 15 - BIT, OTHER, STAB, 2 PC, RR, DCM, 3 OTHER, 9 DC, XO, 30 HWDP = 1306.42																				

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
6,545	6,610	85.0	128.0	60	60	60	100	20,000	24,000	600	600	1,150	
Annular Velocity:		Drill Collars:		335.5		Drill Pipe:		245.1					
6,610	6,754	65.0	125.0	55	62	50	65	25,000	32,000	600	600	1,205	
Annular Velocity:		Drill Collars:		335.5		Drill Pipe:		245.1					

Miscellaneous Drilling Parameters

Hook Loads (lbs):		Off Bottom Rotate: 240,000		Pick Up: 300,000		Slack Off: 210,000		Drag Avg/Max: 5 / 10	
Hours on BHA:		Since Inspection: 50		Total: 50		Jars:			
Hours on Casing/Liner:		Rotating: 50 / 0		Tripping: 75.25 /		<input checked="" 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:		170	170	170	172		
Shaker No 2:		170	170	170	170	Centrifuge 1: 8 (Solids Removal)	
Shaker No 3:		170	170	170	170	Centrifuge 2: 8 (Solids Removal)	

Drill Pipe Inventory

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

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:	32
<input type="checkbox"/>	BOP Test		<input checked="" type="checkbox"/>	Crownamatic Check					



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University of Utah

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

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Weather Information

Sky Condition:	Mostly clear	Visibility:	10	
Air Temperature:	77 degF	Bar. Pressure:	1010	
Wind Speed/Dir:	6 / NNW	Wind Gusts:		