



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: 14 Report For 06:00 AM 30-Apr-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	2650	Last Casing:	16.000 at 1,136	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	2579	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	1,504 / 8.0	Next BOP Test:	20-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	188.0					Well Cost (\$):	---

Days (actual / plan): Drilling 0.73 / 0, Flat 0 / 0, Complete 0 / 0, Total 0.73 / 0 DOL: 14

Pers/Hrs: Operator: 3 / 36 Contractor: 14 / 168 Service: 4 / 48 Other: 3 / 36 Total: 24 / 288

Safety Summary: No incidents or events reported. 14 days since LTI. Conducted Crown Check, Safety Meeting.

Current Operations: Drilling Intermediate section @ 2,650' MD

Planned Operations: Drill Intermediate section f/ 2,650'

Toolpusher: Shawn Seddell

Wellsite Supervisors: Leroy Swearingen, Brian Gresham Tel No.:

Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	7:15	1.25	1,136	CMTD	Drill out shoe track f/1,096' t/1,136'.	
7:15	8:00	0.75	1,156	DRIL	Clean out rathole t/1,146'. Drill 10' new formation t/1,156'.	
8:00	9:00	1.00	1,156	CIRC	Circulate hole clean for trip for directional tools.	
9:00	11:30	2.50	1,156	REPR	Replace dies in clamp on IBOP/Saver sub.	X
11:30	12:00	0.50	1,181	DRIL	Drill ahead f/ 1,156' t/ 1,181', 20K WOB, 60 rpm ROT, 2.5K ft-lb TORQ, 1,012 gpm, 1,550 psi SPP	
12:00	15:30	3.50	1,181	REPR	Work on clamps on top drive. Replace hydraulic hose on ST-80.	X
15:30	17:30	2.00	1,181	TRPO	Trip out of hole f/ 981' t/surface. Break off bit and bit sub.	
17:30	18:00	0.50	1,181	BHAOP	Pick up SDI 7/8 5.7, 1/5° bent motor. Make up 14 3/4-inch Intermediate BHA.	
18:00	21:00	3.00	1,181	TRPI	Trip in the hole t/1,036' hole giving proper displacement.	
21:00	21:30	0.50	1,181	OTHER	Install rotating rubber.	X
21:30	22:30	1.00	1,410	DRIL	Drill 14 3/4-inch intermediate section f/1,181' t/1,410', 10-60K WOB, 60-120 rpm ROT, 15-35 K ft-lb TORQ, 1,200 gpm, 2,450 psi SPP, Diff 650-800. ROP Limiter, making up stands in the mouse hole.	
22:30	23:30	1.00	1,410	OTHER	Remove clamp on TDS, raise grabber assembly and break out of connection w/tongs. Note: circulate at reduced pump rate while rigging down grabber box.	
23:30	0:30	1.00	1,597	DRIL	Drill 14 3/4-inch intermediate section f/1,410' t/1,597', 10-60K WOB, 100 rpm ROT, 15-25 K ft-lb TORQ, 1,200 gpm, 2,450 psi SPP, Diff 650-800. ROP Limiter, making up stands in the mouse hole.	
0:30	1:15	0.75	1,597	OTHER	Retighten clamps on TDS.	X
1:15	6:00	4.75	2,500	DRIL	Drill 14 3/4-inch intermediate section f/1,597' t/2,650', 20-60K WOB, 100 rpm ROT, 18-27 K ft-lb TORQ, 1,200 gpm, 2,450 psi SPP, Diff 650-800. ROP Limiter, making up stands in the mouse hole.	

Management Summary

Drilled out shoe track t/1,136'. Cleaned out rathole t/1,146'. Drilled 10' of new formation t/1,156'. Circulated hole clean. Replaced dies on Saver Sub clamp. Drilled f/1,156' t/1,181'. Retighten clamps on TDS. Tripped out of the hole with clean out assembly. Picked up 14 3/4-inch Dir assembly. Tripped in the hole t/1,036'. Installed rotating rubber. Drilled intermediate section f/1,181' t/1,410'. Removed Saver Sub clamp and break out of connection with tongs. Drilled intermediate section f/1,410' t/1,597'. Retighten clamp on TDS. Drilled intermediate section f/1,597' t/2,650'.

Comments

Fuel on hand 16,394 gals.
Fuel used 447 gals.
Total NPT to date 7.75 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	



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: 14

Report For 06:00 AM 30-Apr-23

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
29-Apr-23 16:00 at Depth 1,181 ft Mud Pits																				
8.80	40	12	9	5	1	9	3.5	0	100	0.1		3100	20		2	14	22			0

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
Engineering - OTHER	2	---	SAPP - 50#SK	6	---

Bit/BHA/Workstring Information

No Run		Make	Model	Diam	Depth In	This Run Dist	R.O.P. Hrs	Avg	Max	WOB	RPM	Torque	Wt	Mud Flow	Pump Press	J. Vel	P. Drp	HHP	JIF	
3	1	NOV	TKC66-A4	9.688	1181															
Jets: 18 18 18 18 18 18					Out:	Grade:	Cutter: /	Dull: /	Wear:	Brgs:	Gge:	Pull:								
BHA - No. 3 - BIT, MMTR, STAB, DCM, PC, HSUB, OTHER, PC, XO, DC, XO, HWDP = 841.42																				

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	
1,146	2,650	300.0	1,800.0	20	60	100	120	18	35	1,150	1,200	

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	140	Pick Up:	150	Slack Off:	135	Drag Avg/Max:	5 / 10
Hours on BHA:	Since Inspection:	7.25	Total:	7.25	Jars:	0		
Hours on Casing/Liner:	Rotating:	7.25 / 0	Tripping:	2 /	<input checked="" type="checkbox"/> Wear Bushing Installed			

Rig Information

Equipment Problems:	
Location Condition:	Good.
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:	6 (Solids Removal)		Centrifuge 2:	6 (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. Making up BHA.					
First Aid Treatments:	0	Medical Treatments:	0	Lost Time Incidents:	0	Days Since LTI:	14
<input type="checkbox"/> BOP Test	<input checked="" type="checkbox"/> Crownamatic Check						

Weather Information

Sky Condition:	Sunny	Visibility:	10
Air Temperature:	44 degF	Bar. Pressure:	1021
Wind Speed/Dir:	8 / SSW	Wind Gusts:	3