



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: 63 Report For 06:00 AM 18-Jun-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	10947	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	8357	Next Casing:	7.000 at 10,159	RKB Elevation (ft):	31	---	---
Proposed TD (ft):	10658	Last BOP Test:	27-May-23	Job Reference RKB (ft):	---	---	---
Hole Made (ft) / Hrs:	444 / 3.75	Next BOP Test:	19-Jun-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	118.4					Well Cost (\$):	---

Days (actual / plan): Drilling 6.18 / 22, Flat 0 / 0, Complete 0 / 52, Total 6.18 / 74 DOL: 63

Pers/Hrs: Operator: 3 / 36 Contractor: 14 / 168 Service: 6 / 72 Other: 6 / 72 Total: 29 / 348

Safety Summary: No incidents or events reported. 63 days since LTI. Conducted Crown Check, Safety Meeting.

Current Operations: Logging out of the hole with UBI at 5,800'.

Planned Operations: Continue logging with UBI to 4,836', pull out of the hole to surface, rig down SLB, make up ThruBit and trip in the hole, log well.

Toolpusher: Shawn Seddell, Clay Nielson

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

Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	9:00	3.00	10,503	TRPI	Trip in the hole from 9,000' to 10,503' staging in to cool motor and tools and acquire surveys as needed.	
9:00	11:00	2.00	10,680	DRIL	Rotate/slide from 10,503' to 10,680' performing step tests, 55-80 RPM, 40-65 WOB, 600-650 GPM. Slide 40' - 23%, Rotate 137' - 77%	
11:00	12:15	1.25	10,680	REPR	Pick up to make connection and rig blacked out. All generators went down. Restart generators and get rig back on line. Drill 10' to 10,690' and drawworks and pumps went offline.	X
12:15	14:00	1.75	10,947	DRIL	Rotate from 10,690' to 10,947'. 55K WOB, 80 RPM, 28.5K TORQ, 650 GPM, 200 FPH. Pump mud sweep at 10,787'. ROP decreased from 280 FPH to 180 FPH while sweep was going across the bit, then picked back up. Last survey @ 10,947" MD, 10,862' Survey Depth, 64.9° INC, 102.17° AZI, 8,356.66' TVD.	
14:00	18:30	4.50	10,947	CIRC	Build and pump a high viscosity sweep to clean hole. Circulate out of hole. Continue circulating to cool hole prior to logs.	
18:30	19:30	1.00	10,947	REAM	Backream out of the hole from 10,947' to 10,435' max overpull 525k.	
19:30	23:30	4.00	10,947	TRPO	Trip out of the hole from 10,435' to BHA.	
23:30	0:30	1.00	10,947	BHAOP	Lay out 9 1/2" dir assembly.	
0:30	1:30	1.00	10,947	RIGU	Hold safety meeting, rig up SLB Wireline	
1:30	6:00	4.50	10,947	LOG	Make up tools, run in hole with UBI, took weight at 9,400', unable to work tool past 9,400'. log well with UBI from 9,400' to 5,800', logged at 1,000 ft/hr. Max temp on first run 280 deg f.	

Management Summary

Tripped in the hole from 9,000' to 10,503', staging in to cool tools as needed, drilled 9 1/2" hole section from 10,503' to 10,680', rig blacked out while picking up off bottom, restarted generators to get rig back online, drilled 9 1/2" hole section from 10,680' to 10,947', pumped high viscosity sweeps and circulated to cool wellbore prior to logs, Backreamed out of the hole from 10,947' to 10,435', Tripped out of the hole from 10,435' to BHA, Laid out 9 1/2" dir assembly, Held safety meeting and rigged up SLB Wireline, Made up tools and ran in the hole with UBI, took weight at 9,400', logged well with UBI from 9,400' to 5,800'.

Comments

Fuel on hand 9,796 gals.
Fuel used 1,622 gals.
Total NPT to date 121.50 HR.
No H2S today.
Last survey @ 10,947" MD, 10,862' Survey Depth, 64.9° INC, 102.17° AZI, 8,356.66' TVD.

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
17-Jun-23 10:00 at Depth 10,657 ft Mud Pits, Type: Low Solids Non-Dispersed																				
8.40						9.6						400								
18-Jun-23 05:00 at Depth 10,503 ft Other Location, Type: Low Solids Non-Dispersed																				
8.60	38	15	8	8.8	1	9	2.5		97.5			400			3	5	8	110	125	

Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
API Gel - 100#SK	7	---	Caustic Soda - 50#SK	1	---
DMA/SPA - 50#SK	2	---	Engineering - OTHER	2	---
HIB 19 - GALS	2	---	Lodging - OTHER	1	---
Poly Vis - 50#SK	2	---	TORKease Concentrate - GALS	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	HHP	JIF	
32	1	BAKER	DD506V	9.500	10503	444	3.12	142.3	306.0	55	75	23	8	650	2850	165	205	78	467
Jets: 15 15 15 18 18 18				Out: 10947		Grade: Cutter: 2 / 1		Dull: BT / WT		Wear: S		Brgs: X		Gge: 1		Pull: TD			
BHA - No. 38 - BIT, MMTR, RR, PC, DCM, MWD, DCM, 4 OTHER, XO, 30 HWDP = 1068.15																			

Drilling Parameters

Depth (ft)		ROP (ft/hr)		WOB (lbs)		RPM		Torque (ft lbs)		Flow (gals/min)		Pressure
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	(psi)
10,503	10,947	142.0	306.0	55	65	75	80	27	33	650	700	2,850
Annular Velocity: Drill Collars: 176.5				Drill Pipe: 265.5								

Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate: 278	Pick Up: 500	Slack Off: 190	Drag Avg/Max: 100 / 125
Hours on BHA:	Since Inspection: 183.25	Total: 183.25	Jars: 22.5	
Hours on Casing/Liner:	Rotating: 187.75 / 6.5	Tripping: 244.25 / 16	<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	200	170	Desander: 0	Desilter: 0	Degasser: 0
Shaker No 2:	170	170	200	170	Centrifuge 1: 12 (Solids Removal)		Centrifuge 2: 12 (Solids Removal)
Shaker No 3:	170	170	200	170			

Drill Pipe Inventory

DP Size	Joints	Weight	Grade	Thread	DP Size	Joints	Weight	Grade	Thread
5.5"	365	24.7	S-135	5.5FH	5.5	30	71.0	S-135	5.5FH
5.5	20	54.0	S-135	5.5FH					

Safety Information

Meetings/Drills	Time	Description
Safety	30	Two Pre-tour safety meetings held daily with crew.
First Aid Treatments:	0	Medical Treatments: 0
Lost Time Incidents:	0	Days Since LTI: 63
<input type="checkbox"/> BOP Test	<input checked="" type="checkbox"/> Crownamatic Check	

Weather Information

Sky Condition: Clear	Visibility: 10
Air Temperature: 78 degF	Bar. Pressure: 1009
Wind Speed/Dir: 15 / S	Wind Gusts: 20