



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: 33

Report For 06:00 AM 19-May-23

Operator:	UNIVERSITY OF UTAH	Rig:	Frontier 16	Spud Date:	26-Apr-23	Daily Cost / Mud (\$):	---
Measured Depth (ft):	6950	Last Casing:	11.750 at 4,837	Wellbore:	Original Wellbore	AFE No.	AFE (\$) Actual (\$)
Vertical Depth (ft):	6680	Next Casing:		RKB Elevation (ft):	31	---	---
Proposed TD (ft):		Last BOP Test:	29-Apr-23	Job Reference RKB (ft):		---	---
Hole Made (ft) / Hrs:	196 / 6.0	Next BOP Test:	28-May-23	Working Interest:		Totals:	---
Average ROP (ft/hr):	32.67					Well Cost (\$):	---
Days (actual / plan):	Drilling 3.49 / 0, Flat 0 / 0, Complete 0 / 0, Total 3.49 / 0						DOL: 33
Pers/Hrs:	Operator: 3 / 36	Contractor:	14 / 168	Service:	6 / 72	Other:	2 / 24
						Total:	25 / 300
Safety Summary: No incidents or events reported. 33 days since LTI. Conducted Crown Check, Safety Meeting.							
Current Operations: Handling BHA.							
Planned Operations: lay out BHA, rig up SLB Wireline unit, log as per prog.							
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	6:15	0.25	6,754	REPR	Troubleshoot TDS electrical problems. Bad encoder. Clean and reinstall.	X
6:15	6:30	0.25	6,773	DRIL	Drill from 6,754' to 6,773' to test top drive. 60 rpm, 60K wob, 600 gpm. System was fine until picking up for a survey. Attempted several times to get encoder to work.	
6:30	13:15	6.75	6,773	REPR	Wait for new encoder to arrive from Vernal, UT. Install same.	X
13:15	13:30	0.25	6,777	DRIL	Drill from 6,773' to 6,777'. 60 rpm, 60K wob, 600 gpm testing new encoder. TDS still not communicating.	
13:30	18:00	4.50	6,777	REPR	Wait for electrician and additional parts to repair TDS.	X
18:00	18:30	0.50	6,777	REPR	Replace pigtail to encoder. Function test TDS.	X
18:30	0:00	5.50	6,950	DRIL	Drill 9 1/2" curve from 6,777' to 6,950' with RSS. 60-63K WOB, 600 gpm. EOB at 6,943' MD, 6,680' TVD, 65.9 INC, 103.47 AZI, 25' low, 1.65' right of plan.	
0:00	2:15	2.25	6,950	CIRC	Pump 70 bbl high vis sweep. Circulate sweep to surface, dump overboard, Circulate additional strokes while setting up gyro.	
2:15	2:45	0.50	6,950	OTHER	Drop gyro in drill string. Pump gyro down to top of float sub at 6,839'.	
2:45	5:30	2.75	6,950	TRPO	Trip out of the hole for logs from 6,950' to BHA.	
5:30	6:00	0.50	6,950	BHAOP	Rack back HWDP and Collars.	

Management Summary

Troubleshooted encoder issues on TDS. Drilled from 6,754' to 6,773' to test top drive. System still not functioning properly. Attempted several times to get encoder working with no success. Waited for new encoder to arrive from Vernal, UT. Install same. Drilled from 6,773' to 6,777' testing new encoder. TDS still not functioning properly. Replaced pigtail to encoder. Function tested TDS, system working properly. Drilled 9 1/2" curve from 6,777' to 6,950' with RSS. EOB at 6,943' MD, 6,680' TVD, 65.9 INC, 103.47 AZI, 25' low, 1.65' right of plan. Pumped 70 bbl high vis sweep. Circulated surface to surface strokes and condition hole for logs. Installed gyro in drill string, Pumped gyro down to top of float sub at 6,839'. Tripped out of the hole for logs from 6,950' to BHA.

Comments

Fuel on hand 18,672 gals.
Fuel used 1,409 gals.
Fuel delivered 7,352 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	



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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	
19-May-23 01:00 at Depth 6,685 ft Mud Pits, Type: Low Solids Non-Dispersed																					
8.40	28					10	1		99			800						80	93		
18-May-23 14:00 Mud Pits, Type: Low Solids Non-Dispersed																					
8.40	28					9.5	1		99			800						80	93		

Mud Consumables

Item Description			Qty.	Cost	Item Description			Qty.	Cost
DC-310/CI-100 - OTHER			10	---	Engineering - OTHER			2	---
Poly Vis - 50#SK			5	---	TORKease - GALS			3	---
TORKease L - GALS			3	---	Walnut - 50#SK			13	---
Xanthan Gum - 50#SK			5	---					

Bit/BHA/Workstring Information

C																			
				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	HP	JIF
14	1	NOV	TKC 83	9.500	6610	144	9.5	15.2	75.0	60	60	21	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		
6,754	6,950	55.0	75.0	60	60	60	60	15,000	27,000	600	600	1,220	
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: 56		Total: 56		Jars:			
Hours on Casing/Liner:		Rotating: 56 / 0		Tripping: 80.25 /				<input checked="" type="checkbox"/> Wear Bushing Installed	

Rig Information

Equipment Problems:		Encoder on TDS, not functioning properly. Encoder was changed out along with pigtail. issues resolved.																	
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: 6 (Solids Removal)		Centrifuge 2: 6 (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	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:		33
<input type="checkbox"/>	BOP Test		<input checked="" type="checkbox"/>	Crownamatic Check							

Weather Information

Sky Condition:		Mostly clear		Visibility:		10	
Air Temperature:		77 degF		Bar. Pressure:		1009	
Wind Speed/Dir:		10 / NNW		Wind Gusts:		3	