



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: 22 Report For 06:00 AM 08-May-23

| | | | | | | | |
|-----------------------|--------------------|----------------|-----------------|-------------------------|-------------------|------------------------|------------------------|
| Operator: | UNIVERSITY OF UTAH | Rig: | Frontier 16 | Spud Date: | 26-Apr-23 | Daily Cost / Mud (\$): | --- |
| Measured Depth (ft): | 4855 | Last Casing: | 11.750 at 4,837 | Wellbore: | Original Wellbore | AFE No. | AFE (\$) Actual (\$) |
| Vertical Depth (ft): | 4854 | Next Casing: | | RKB Elevation (ft): | 31 | --- | --- |
| Proposed TD (ft): | | Last BOP Test: | 29-Apr-23 | Job Reference RKB (ft): | | --- | --- |
| Hole Made (ft) / Hrs: | 10 / 1.5 | Next BOP Test: | 20-May-23 | Working Interest: | | Totals: | --- |
| Average ROP (ft/hr): | 6.67 | | | | | Well Cost (\$): | --- |
| Days (actual / plan): | Drilling 1.8 / 0, | Flat 0 / 0, | Complete 0 / 0, | Total 1.8 / 0 | | DOL: | 22 |
| Pers/Hrs: | Operator: 3 / 36 | Contractor: | 14 / 168 | Service: | 10 / 120 | Other: | 3 / 36 Total: 30 / 360 |

Safety Summary: No incidents or events reported. 22 days since LTI. Conducted Safety Meeting.

Current Operations: Tripping out of the hole at 1,607'.

Planned Operations: Finish tripping out of the hole. Remove bit, bit sub and Gyro. Run Isolation Scanner. Pick up core tools.

Toolpusher: Shawn Seddell, Jason Postma

Wellsite Supervisors: Leroy Swearingen, Randy Baldwin

Tel No.:

Operations Summary

| From | To | Elapsed | End MD(ft) | Code | Operations Description | Non-Prod |
|-------|-------|---------|------------|-------|--|----------|
| 6:00 | 9:30 | 3.50 | 4,845 | BOPT | Test lower manual valve and pipe rams, 250 psi low, 5,000 psi high for 5 minutes. Test good. Attempt to test blind rams. Test failed. | |
| 9:30 | 17:30 | 8.00 | 4,845 | REPR | Open ram doors and remove blind rams. Remove seals. Wait on new seals. While waiting on repairs, crew changing grabber box dies and change oil in top drive. Unload 90 jts of insulated drill pipe. Install new seals on blind rams. | X |
| 17:30 | 19:30 | 2.00 | 4,845 | BOPT | Test blind rams to 250 psi low and 5,000 psi high for 5 minutes. Good test. Remove test plug. Install wear bushing. | |
| 19:30 | 1:00 | 5.50 | 4,845 | TRPI | Make up 9-1/2" insert bit. Trip in the hole. Tag top of cement at 4,744'. | |
| 1:00 | 2:00 | 1.00 | 4,845 | DRILR | Drill out cement f/4,744' t/4,748', top of float collar. Drill out float collar and good cement to float shoe at 4,839'. Drill out good cement t/4,843' and contaminated cement t/4,845'. | |
| 2:00 | 2:30 | 0.50 | 4,855 | DRILR | Drill 10' new hole f/4,845' t/4,855'. 20 WOB, RPM 50, 60, 65, &70. Brought WOB to 25. Max temp out 120 deg F. | |
| 2:30 | 3:30 | 1.00 | 4,855 | CIRC | Circulate hole clean. 8.5 ppg in and out. | |
| 3:30 | 4:00 | 0.50 | 4,855 | FIT | Perform FIT test to 330 psi. Mud Weight Equivalent 9.8 ppg. | |
| 4:00 | 4:30 | 0.50 | 4,855 | SURV | PJSM. Drop Gyro. Totco Ring at 4,850'. | |
| 4:30 | 6:00 | 1.50 | 4,855 | TRPO | Trip out of the hole f/4,852' t/1,607'. | |

Management Summary

Tested lower manual valve and pipe rams, 250 psi low, 5,000 psi high for 5 minutes. Test good. Attempted to test blind rams. Test failed. Changed out blind ram seals. Tested blind rams to 250 psi low and 5,000 psi high for 5 minutes. Test good. Removed test plug. Installed wear bushing. Made up 9-1/2" insert bit and tripped in the hole. Tagged top of cement at 4,744'. Drilled out cement f/4,744' t/4,748', top of float collar. Drilled out float collar and good cement to shoe at 4,839'. Drilled out good cement t/4,843' and contaminated cement t/4,845'. Drilled 10' new hole f/4,845' t/4,855'. Circulated hole clean. 8.5 ppg in and out. Performed FIT test to 330 psi. Mud Weight Equivalent 9.8 ppg. Dropped Gyro with Totco Ring at 4,850'. Trip out of the hole f/4,852' t/1,607'.

Comments

Fuel on hand 17,978 gals.
Fuel used 824 gals.
Total NPT to date 48.5 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

| % | | | | | | | | | | | | | | 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 |
| 07-May-23 15:00 at Depth 4,845 ft Mud Pits, Type: Low Solids Non-Dispersed | | | | | | | | | | | | | | | | | | | | |
| 8.35 | | 2 | 1 | | | 7.8 | | | 100 | | | 300 | | | | | | | | |



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: 22

Report For 06:00 AM 08-May-23

Mud Consumables

| Item Description | Qty. | Cost | Item Description | Qty. | Cost |
|---------------------|------|------|------------------|------|------|
| Engineering - OTHER | 1 | --- | | | |

Bit/BHA/Workstring Information

| No | Run | Make | Model | Diam | Depth | | This Run | | | R.O.P. | | Mud Pump | | | | | | | |
|----------------|-----|---------|---------|-------|-------|--------|----------|------|-------|--------|-------|----------|------|-------|-------|--------|--------|-----|-----|
| | | | | | In | Dist | Hrs | Avg | Max | WOB | RPM | Torque | Wt | Flow | Press | J. Vel | P. Drp | HHP | JIF |
| 5 | 1 | SANJOAQ | MX-S50R | 9.500 | 4845 | 111 | 1.5 | 74.0 | 120.0 | 25 | 70 | 4700 | 8 | 680 | 1080 | 165 | 204 | 81 | 487 |
| Jets: 24 24 24 | | | | | Out: | Grade: | Cutter: | / | Dull: | / | Wear: | Brgs: | Gge: | Pull: | | | | | |

Comments: Drill out shoe track and 10 ft of new hole.

BHA - No. 5 - BIT, BS, 5 DC, XO, 30 HWDP = 1385.26

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 |
| 4,744 | 4,855 | 11.0 | 15.0 | 25 | 25 | 70 | 70 | 4,500 | 5,300 | 680 | 690 | 1,080 | |

Annular Velocity: Drill Collars: 373.0 Drill Pipe: 277.8

Comments: 10 ft of new hole.

Miscellaneous Drilling Parameters

| | | | | | |
|-------------------|--------------------|----------|------------|---------------|-------|
| Hook Loads (lbs): | Off Bottom Rotate: | Pick Up: | Slack Off: | Drag Avg/Max: | / |
| Hours on BHA: | Since Inspection: | 1.5 | Total: | 1.5 | Jars: |

Rig Information

Equipment Problems:

Location Condition:

Transport:

Solids Control Information

| Screen Sizes: | Top | Middle 1 | Middle 2 | Bottom |
|---------------|-----|----------|----------|--------|
| Shaker No 1: | 120 | 120 | 120 | 120 |
| Shaker No 2: | 120 | 120 | 120 | 120 |
| 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. BOPE testing procedures. Making up BHA |
| First Aid Treatments: | 0 | Medical Treatments: 0 |
| Lost Time Incidents: | 0 | Days Since LTI: 22 |
| <input type="checkbox"/> BOP Test | | <input type="checkbox"/> Crownamatic Check |

Weather Information

| | |
|-----------------------------|---------------------|
| Sky Condition: Mostly clear | Visibility: 10 |
| Air Temperature: 62 degF | Bar. Pressure: 1013 |
| Wind Speed/Dir: 11 / ENE | Wind Gusts: |