



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: 30 Report For 06:00 AM 16-May-23

| | | | | | | | |
|-----------------------|--------------------|----------------|-----------------|-------------------------|-------------------|------------------------|----------------------|
| Operator: | UNIVERSITY OF UTAH | Rig: | Frontier 16 | Spud Date: | 26-Apr-23 | Daily Cost / Mud (\$): | --- |
| Measured Depth (ft): | 6423 | Last Casing: | 11.750 at 4,837 | Wellbore: | Original Wellbore | AFE No. | AFE (\$) Actual (\$) |
| Vertical Depth (ft): | 6361 | Next Casing: | | RKB Elevation (ft): | 31 | --- | --- |
| Proposed TD (ft): | | Last BOP Test: | 29-Apr-23 | Job Reference RKB (ft): | | --- | --- |
| Hole Made (ft) / Hrs: | 466 / 11.0 | Next BOP Test: | 20-May-23 | Working Interest: | | Totals: | --- |
| Average ROP (ft/hr): | 42.36 | | | | | Well Cost (\$): | --- |

Days (actual / plan): Drilling 3.07 / 0, Flat 0 / 0, Complete 0 / 0, Total 3.07 / 0 DOL: 30

Pers/Hrs: Operator: 3 / 36 Contractor: 14 / 168 Service: 6 / 72 Other: 3 / 36 Total: 26 / 312

Safety Summary: No incidents or events reported. 30 days since LTI. Conducted BOP Drill, Safety Meeting.

Current Operations: Drilling 9-1/2" hole at 6,424'.

Planned Operations: Continue drilling ahead building curve to 65°.

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 | 8:30 | 2.50 | 5,957 | TRPO | Trip out of hole from 5,957' to 106'. | |
| 8:30 | 11:00 | 2.50 | 5,957 | BHAOP | Lay down Black box, roller reamer and RSS tool. Break off bit. | |
| 11:00 | 12:00 | 1.00 | 5,957 | SERV | Service rig and top drive. | |
| 12:00 | 14:00 | 2.00 | 5,957 | BHAOP | Lay down 9.22'x6 3/4" non-mag pony collar. Pick up RSS tool, make up bit and new Black box and trip in hole making up BHA. Pick up rebuilt roller reamer. Trip in hole with drill collars. | |
| 14:00 | 15:30 | 1.50 | 5,957 | TRPI | Trip in hole with drill pipe on elevators to 3,756'. | |
| 15:30 | 17:30 | 2.00 | 5,957 | REPR | Work on Pason Depth tracking. | X |
| 17:30 | 19:00 | 1.50 | 5,957 | TRPI | Trip in hole from 3,756' to 5,957'. | |
| 19:00 | 6:00 | 11.00 | 6,423 | DRIL | Drill 9-1/2" hole from 5,957' to 6,423' with Halo directional assembly with no mud motor or Ripstick. Step test: WOB from 50K to 60K. RPM from 60 to 80. Maintain drilling at WOB 60K and RPM 60. Last suvey @ 6,462'MD, 6,379' TVD, 40.3 Inc, 117.09 Azi, 4.03 DLS. | |

Management Summary

Tripped out of hole from 5,957' to 106'. Laid down Black box, roller reamer, non mag- pony collar and RSS tool. Broke off bit. Picked up new RSS tool, bit, Black box and re-built roller reamer. Left pony collar out. Tripped in the hole to 5957'. Drilled 9-1/2" hole from 5,957' to 6,423' with Halo directional assembly.

Comments

Surveys getting magnetic interference.

Fuel on hand 16,332 gals.
Fuel used 1,383 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 | |

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 |
| 15-May-23 13:30 at Depth 5,957 ft Mud Pits, Type: Low Solids Non-Dispersed | | | | | | | | | | | | | | | | | | | | |
| 8.35 | 27 | | | | 0.1 | 8.9 | 0.1 | | 99.9 | | | 900 | | | | | | | | |
| 16-May-23 01:00 at Depth 5,832 ft Mud Pits, Type: Low Solids Non-Dispersed | | | | | | | | | | | | | | | | | | | | |
| 8.35 | 27 | 2 | | | 0.1 | 9.4 | 0.1 | | 99.9 | | | 800 | | | | | | | | |



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Report No: 30

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Mud Consumables

| Item Description | Qty. | Cost | Item Description | Qty. | Cost |
|----------------------|------|------|---------------------|------|------|
| Caustic Soda - 50#SK | 1 | --- | Engineering - OTHER | 2 | --- |
| TORKease - GALS | 2 | --- | | | |

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 |
|--|---|------|----------|-------|-----------|------------------|------------|---------|-------|-------|-------|--------|-------|----------|------------|--------|--------|-----|-----|
| 11 | 1 | NOV | TKC73 A1 | 9.500 | 5269 | 688 | 14.5 | 47.4 | 47.4 | 0 | 0 | 0 | 8 | 0 | 0 | | | | |
| Jets: 15 15 15 15 15 15 15 | | | | | Out: 5957 | Grade: Cutter: / | | Dull: / | | Wear: | Brgs: | Gge: | Pull: | | | | | | |
| Comments: New PDC bit. | | | | | | | | | | | | | | | | | | | |
| 12 | 1 | NOV | TKC73 A1 | 9.500 | 5957 | 466 | 11 | 42.4 | 200.0 | 60000 | 60 | 15100 | 8 | 600 | 1200 | 159 | 190 | 66 | 413 |
| Jets: 15 15 15 15 15 15 15 | | | | | Out: | Grade: Cutter: / | | Dull: / | | Wear: | Brgs: | Gge: | Pull: | | | | | | |
| BHA - No. 13 - BIT, OTHER, STAB, DCM, RR, 3 OTHER, 9 DC, XO, 30 HWDP = 1286.80 | | | | | | | | | | | | | | | | | | | |

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 | | |
| 5,957 | 6,423 | 55.0 | 200.0 | 60,000 | 60,000 | 60 | 85 | 14,800 | 17,300 | 600 | 600 | 1,200 | |
| Annular Velocity: Drill Collars: 335.5 | | | | Drill Pipe: 245.1 | | | | | | | | | |

Miscellaneous Drilling Parameters

| | | | | |
|---|----------------------------|------------------|---|-----------------|
| Hook Loads (lbs): | Off Bottom Rotate: 230,000 | Pick Up: 280,000 | Slack Off: 210,000 | Drag Avg/Max: / |
| Hours on BHA: | Since Inspection: 42.5 | Total: 42.5 | Jars: | |
| Hours on Casing/Liner: Rotating: 42.5 / 0 | Tripping: 60.25 / | | <input 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: 24 (Solids Removal) Centrifuge 2: 24 (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. |
| BOP | 3 | Function tested blind and pipe rams. |
| First Aid Treatments: | 0 | Medical Treatments: 0 |
| Lost Time Incidents: | 0 | Days Since LTI: 30 |
| <input type="checkbox"/> BOP Test <input type="checkbox"/> Crownamatic Check | | |

Weather Information

| | |
|------------------------------|---------------------|
| Sky Condition: Partly Cloudy | Visibility: 10 |
| Air Temperature: 76 degF | Bar. Pressure: 1021 |
| Wind Speed/Dir: 7 / S | Wind Gusts: |