



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: 91 Report For 06:00 AM 16-Jul-23

| | | | | | | | |
|-----------------------|--------------------|----------------|-----------------|-------------------------|-------------------|------------------------|----------------------|
| Operator: | UNIVERSITY OF UTAH | Rig: | Frontier 16 | Spud Date: | 26-Apr-23 | Daily Cost / Mud (\$): | --- |
| Measured Depth (ft): | 10947 | Last Casing: | 7.000 at 10,208 | Wellbore: | Original Wellbore | AFE No. | AFE (\$) Actual (\$) |
| Vertical Depth (ft): | 8357 | Next Casing: | | RKB Elevation (ft): | 31 | --- | --- |
| Proposed TD (ft): | 10658 | Last BOP Test: | 27-May-23 | Job Reference RKB (ft): | | --- | --- |
| Hole Made (ft) / Hrs: | 0 / 0.0 | Next BOP Test: | 26-Jun-23 | Working Interest: | | Totals: | --- |
| Average ROP (ft/hr): | | | | | | Well Cost (\$): | --- |

| | | | | | | | | | |
|-----------------------|--|-------------|--------|----------|-------|--------|-------|--------|--------|
| Days (actual / plan): | Drilling 6.18 / 22, Flat 0 / 0, Complete 0 / 52, Total 6.18 / 74 | DOL: | 91 | | | | | | |
| Pers/Hrs: Operator: | 2 / 0 | Contractor: | 14 / 0 | Service: | 2 / 0 | Other: | 4 / 0 | Total: | 22 / 0 |

Safety Summary: No incidents or events reported. 91 days since LTI. Conducted Safety Meeting.

Current Operations: Drilling out shoe track at 10,181'.

Planned Operations: Finish drilling out shoe track. Clean out bentonite plug from 10,208' to 10,947'. Pump sweeps and clean hole. Trip out of the hole.

Toolpusher: Shawn Seddell, Clay Nielson

Wellsite Supervisors: Leroy Swearingen, Randy Baldwin **Tel No.:**

Operations Summary

| From | To | Elapsed | End MD(ft) | Code | Operations Description | Non-Prod |
|-------|-------|---------|------------|-------|--|----------|
| 6:00 | 10:00 | 4.00 | 10,947 | BOPT | Test pipe rams to 250 psi low, 6,000 psi high (limited by top drive weight). Test inside and outside kill valves, inside choke valve, HCR, IBOP, TIW valves to 250 psi low, 6,000 psi high. Test blind rams and all 7" flanges below blind rams to 250 psi low, 8,500 psi high. The top seal of three on the CSBS metal seal inside the adapter flange was leaking. Could not get a good test of top seal. Was able to get a test on the bottom two seals. | |
| 10:00 | 13:30 | 3.50 | 10,947 | OTHER | Pick up rotating head clamp and bearing pack and install. Loading pipe racks with collars and drill pipe. Move Baker fiber optic unit. Waiting on Silixa to run testing on fiber. | |
| 13:30 | 1:30 | 12.00 | 10,947 | TRPI | Make up 5 1/2" bit, 5 1/4" near bit stabilizer w/ float, 1 joint of drill collars, 5 1/4" stabilizer and 23 joints of drill collars. Run in hole on drill pipe picking up singles to 9,903'. | |
| 1:30 | 4:00 | 2.50 | 10,947 | CMTD | Tag top of cement at 9,903'. Drill out cement to float collar at 9,934'. Drill out float collar. | |
| 4:00 | 6:00 | 2.00 | 10,947 | CMTD | Drill out shoe track from 9,936' to 10,181'. No cement below float collar. | |

Management Summary

Tested BOPE to 8,500 psi. Tested good. Tested hanger packoff. The top seal of three on the CSBS metal seal inside the adapter flange leaked. Bottom two seals tested good. Ran in hole with 5-1/2" bit and BHA picking up singles to 9,903'. Tagged top of cement at 9,903'. Drilled out cement to float collar at 9,934'. Drilled out float collar.

Comments

Fuel on hand 15,150 gals.
Fuel used 782 gals.
Temp in 80 F
Temp out 94 F
Total NPT to date 122.50 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 | |
| LINER | 7.000 | 7 | 0 | 10,208 | 8,061 | INT2 | 9.500 | 38 | VSTP110M | |

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-Jul-23 12:00 at Depth 10,947 ft Other Location, Type: Low Solids Non-Dispersed | | | | | | | | | | | | | | | | | | | | |
| 8.40 | 27 | | | | | 8.4 | 0.65 | | 99.5 | | | 2000 | | | | | | | | |

Mud Consumables

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



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Bit/BHA/Workstring Information

| No | Run | Make | Model | Diam | Depth | | This Run | | | R.O.P. | | Mud | | Pump | | J. Vel | P. Drp | HHP | JIF |
|---|-----|---------|---------|-------|-------|------|------------------|------|---------|--------|-------|--------|-------|------|-------|--------|--------|-----|-----|
| | | | | | In | Dist | Hrs | Avg | Max | WOB | RPM | Torque | Wt | Flow | Press | | | | |
| 34 | 1 | SANJOAQ | tricone | 5.500 | 10947 | 278 | 4.5 | 61.8 | 200.0 | 3 | 70 | 9 | 8 | 250 | 2100 | 61 | 28 | 4 | 66 |
| Jets: 24 24 24 | | | | | Out: | | Grade: Cutter: / | | Dull: / | | Wear: | | Brgs: | | Gge: | | Pull: | | |
| BHA - No. 46 - BIT, NBS, DC, STAB, 23 DC = 748.80 | | | | | | | | | | | | | | | | | | | |

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 | | |
| 9,803 | 10,208 | 75.0 | 200.0 | 1 | 17 | 70 | 70 | 8 | 9 | 250 | 250 | 2,100 | |
| Annular Velocity: Drill Collars: | | | | 490.8 | | Drill Pipe: | | 268.8 | | | | | |
| Comments: Drill out shoe track. | | | | | | | | | | | | | |

Miscellaneous Drilling Parameters

| | | | | | | | | |
|------------------------|--------------------|-------|-----------|------|---|-----|---------------|---------|
| Hook Loads (lbs): | Off Bottom Rotate: | 152 | Pick Up: | 190 | Slack Off: | 120 | Drag Avg/Max: | 38 / 50 |
| Hours on BHA: | Since Inspection: | 4.5 | Total: | 4.5 | Jars: | 0 | | |
| Hours on Casing/Liner: | Rotating: | / 4.5 | Tripping: | / 12 | <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: | 200 | 200 | 200 | 200 | Desander: 0 | Desilter: 0 | Degasser: 0 |
| Shaker No 2: | 200 | 200 | 200 | 200 | | | |
| Shaker No 3: | 200 | 200 | 200 | 200 | | | |

Drill Pipe Inventory

| DP Size | Joints | Weight | Grade | Thread | DP Size | Joints | Weight | Grade | Thread |
|---------|--------|--------|-------|--------|---------|--------|--------|-------|--------|
| 3.5" | 362 | 15.5 | S-135 | 3.5IF | | | | | |

Safety Information

| Meetings/Drills | Time | Description |
|--|------|--|
| Safety | 30 | Two Pre-tour safety meetings with crews, |
| First Aid Treatments: | 0 | Medical Treatments: 0 |
| Lost Time Incidents: | 0 | Days Since LTI: 91 |
| <input type="checkbox"/> BOP Test | | |
| <input type="checkbox"/> Crownamatic Check | | |

Weather Information

| | |
|--------------------------|---------------------|
| Sky Condition: Clear | Visibility: 10 |
| Air Temperature: 94 degF | Bar. Pressure: 1011 |
| Wind Speed/Dir: 10 / NNW | Wind Gusts: 15 |