# DAILY DRILLING REPORT

RPT DATE: 12/03/2020
RPT NUM.: 45
RIG: Frontier Rig 16

## WELL/JOB INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| WELL NAME: | FORGE 16A [78]-32 | JOB: | Drilling 65° Tangent | RIG SUPERV: | Paul S, Bob F, Duane W |
| FIELD: | | LEASE: | | RIG PHONE: | 281-854-6858 |
| AFE #: | | API #: | | EMAIL: | |
| CONTRACTOR: | Frontier Drilling | ELEVATION: | 5415.1 | RKB: | |
| SPUD DATE: | 10/30/2020 | DFS: | 34 | DOL: | 44 |
| MD/TVD: | 7390 | 24 HR FTG: | | HRS DRLG: | |

PRESENT OPERATIONS: SETTING PACKER FOR EXTENDED LEAK OFF TEST

ACTIVITY PLANNED: COMPLETE EXTENDED LEAK OFF TEST, TRIP OUT WITH PACKER BHA, TRIP IN HOLE DRILL TANGENT

## BOP

| LAST BOP TEST: | 11/14/20 | LAST BOP DRILL: | 11/29/20 | NEXT BOP TEST: | 12/14/20 |
|---|---|---|---|---|---|

## CASING

| CASING TYPE | OD | WEIGHT | GRADE | MD | TVD |
|---|---|---|---|---|---|
| Conductor | 20.00 | 54 | A53B | 130 | 130 |
| Surface | 13.38 | 68 | L-80 | 1,629 | 1,629 |
| Intermediate | 9.63 | 40 | HCL-80 | 5,110 | 5,109 |

## MUD

| TIME | MW | FV | WL | PH | CAKE | GELS (10s/10m/30m) | | | PV | YP | CL | K | Pf | Mf | Ca | OIL | LGS | HTHP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:00 | 9.0 | 41.0 | 9.0 | 11.0 | 1 | 8 | 17 | 28 | 20 | 15 | 1,500 | | 0.90 | 2.00 | 40 | | 3.70 | |

## DRILL BITS

| NO. | SIZE | MANUFACTURER | TYPE | SER NO. | JETS | TFA | RE-RUN | IN | OUT | FEET | HRS | WOB | RPM | ROP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 27 | 8.75 | REED RR | PDC | A276121 | 3x14, 3x13 | 0.840 | Y | 7,390 | 7,390 | | | | | |
| 26 | 8.75 | REED RR | FTKC63-01 | A276121 | 3x14, 3x13 | 0.840 | Y | 7,390 | 7,390 | | | | | |

BIT NO. 23 | INNER: 0 | OUTER: 1 | DULL: WC | LOC: S | SEAL: | GAUGE: Y | OTHER: DULL CUT | RP: TD

## PUMPS

| PUMP | MAKE | MODEL | LINER | STK | SPM | PSI | GPM | GPS | EFF % | ECD | AV DP | AV DC | BIT HHP | PUMP HHP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | BOMCO | 1600 | 6.000 | 12.000 | 70 | 3380 | 275 | | 95 | 9.7 | 308 | 475 | 130.1 | |
| 3 | BOMCO | 1600 | 6.000 | 12.000 | 70 | 3250 | 275 | | 95 | 9.7 | 308 | 475 | 130.1 | |

## BHA

| # | COMPONENT | OD | ID | LENGTH | # | COMPONENT | OD | ID | LENGTH |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Sub-Bullnose Guide Shoe | 5.06 | | 1.29 | 7 | Drill Pipe-5" DP | 5 | | 31.59 |
| 2 | X-Over-4.5" CASING PUP | 4.5 | | 2.4 | | | | | |
| 3 | X-Over | 5 | | 1 | | | | | |
| 4 | Sub-PACKER | 7.5 | | 10.5 | | | | | |
| 5 | X-Over-4 1/2" 8 RD x 4 1/2" BTC | 1 | | 1 | | | | | |
| 6 | X-Over-4 1/2" btc X 4 1/2" IF | 4.5 | | 1.9 | | | | | |

DESCRIPTION: Packer BHA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| LENGTH: | 49.68 | BHA WT. AIR: | 78,800 | BHA WT. MUD: | 61,700 | HRS. ON JARS: | |
| ROT. WT.: | 212,000 | P.U. WT.: | 214,000 | S.O. WT.: | 210,000 | TORQUE: | 3,500 |

## SURVEY DATA

| MD | INCLINATION | AZIMUTH | TVD | N/S COORDINATES | E/W | V. SECTION | DLS |
|---|---|---|---|---|---|---|---|
| 7,340 | 66.82 | 101.29 | 7,032 | -190.1 | 748.1 | 771.8 | 1.7 |
| 7,350 | 66.89 | 101.29 | 7,036 | -191.9 | 757.2 | 781.0 | 0.7 |
| 7,360 | 67.06 | 101.35 | 7,039 | -193.7 | 766.2 | 790.2 | 1.8 |
| 7,366 | 67.12 | 101.22 | 7,042 | -194.8 | 771.5 | 795.7 | 2.3 |

## CONSUMABLES

| CONSUMABLE | DAILY RECEIVED (gal) | DAILY USED (gal) | DAILY ON HAND (gal) |
|---|---|---|---|
| Fuel | | 1,895 | 5,258 |
| Potable Water | | | 900 |

## TIME BREAKDOWN

| FROM | TO | HRS | PHASE | CODE | NPT | OPERATIONS |
|---|---|---|---|---|---|---|
| 06:00 | 10:30 | 4.5 | Production Drilling | Wire Line Logs | | Complete UBI Logging run. Rig Down Schlumberger |
| 10:30 | 12:30 | 2.0 | Production Drilling | Trips | | Trip in hole with BHA 27 to 5,083' |
| 12:30 | 13:00 | 0.5 | Production Drilling | Cond Mud & Circ | | Circulate for Temperature |
| 13:00 | 14:00 | 1.0 | Production Drilling | Trips | | Trip in hole from 5,083' to 7,390' |
| 14:00 | 19:00 | 5.0 | Production Drilling | Cond Mud & Circ | | Circulate for temperature, Build dry pill, Pump dry pill |
| 19:00 | 22:00 | 3.0 | Production Drilling | Trips | | Trip out of hole with BHA 27 |
| 22:00 | 03:00 | 5.0 | Production Drilling | Trips | | Pick up Test Packer and trip in hole |
| 03:00 | 06:00 | 3.0 | Production Drilling | Cond Mud & Circ | | Circulating while rigging up pump truck |
| | TOTAL HRS | 24.0 | | | | |