# DAILY DRILLING REPORT

RPT DATE: 12/30/2020
RPT NUM.: 72
RIG: Frontier Rig 16

## WELL/JOB INFORMATION

WELL NAME: FORGE 16A [78]-32
FIELD:
AFE #:
CONTRACTOR: Frontier Drilling
SPUD DATE: 10/30/2020
MD: 10987
JOB: Drilling 65° Tangent
LEASE:
API #:
ELEVATION: 5415.1
DFS: 61
24 HR FTG:
RIG SUPERV: Leroy S, , Paul S, Bob F, Duane W
RIG PHONE: 281-854-6858
EMAIL:
RKB:
DOL: 71
HRS DRLG:
PRESENT OPERATIONS: WASH TO CASING POINT FROM 10,633' TO 10,787'
ACTIVITY PLANNED: PUMP HIGH VISCOSITY SWEEP, SPOT 5% LUBE IN TANGENT, TRIP OUT TO RUN LINER

## BOP

LAST BOP TEST: 12/16/20 | LAST BOP DRILL: 12/16/20 | NEXT BOP TEST: 1/15/21

## 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:00 | 9.0 | 40.0 | 10.0 | 10.5 | 1 | 8 11 13 | 21 | 1 | 1,400 | | 1.50 | 3.60 | 40 | | 3.40 | |

## DRILL BITS

| NO. | SIZE | MANUFACTURER | TYPE | SER NO. | JETS | TFA | RE-RUN | IN | OUT | FEET | HRS | WOB | RPM | ROP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 48 | 8.75 | Schlumberger | PDC Logging | | | | N | 10,987 | 10,987 | | | | | |
| 47 | 8.75 | Ulterra | CF613 PDC | 45992 | 3x14, 3x13 | 0.840 | Y | 10,987 | 10,987 | | 8.0 | | | |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BOMCO | 1600 | 6.000 | 12.000 | | | | | 95 | | | | | |
| 2 | BOMCO | 1600 | 6.000 | 12.000 | 75 | 2660 | 325 | 5.4 | 95 | 9.64 | 308 | 475 | 130.1 | |

## BHA

| # | COMPONENT | OD | ID | LENGTH | # | COMPONENT | OD | ID | LENGTH |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Drill Bit-Schlumberger Logging | 8.75 | | 1.5 | | | | | |
| 2 | Sub-Bit Sub with Float | 6.5 | 3.13 | 5.2 | | | | | |

DESCRIPTION: Logging BHA # 53
LENGTH: 6.70 | BHA WT. AIR: | BHA WT. MUD: | HRS. ON JARS:
ROT. WT.: | P.U. WT.: | S.O. WT.: | TORQUE:

## SURVEY DATA

| MD | INCLINATION | AZIMUTH | TVD | N/S COORDINATES | E/W | V. SECTION | DLS |
|---|---|---|---|---|---|---|---|
| 10,316 | 63.32 | 108.30 | 8,310 | -904.3 | 3,329.4 | 3,450.0 | 1.0 |
| 10,411 | 64.68 | 105.97 | 8,351 | -929.4 | 3,411.0 | 3,535.3 | 2.6 |
| 10,505 | 64.86 | 105.02 | 8,392 | -952.1 | 3,492.9 | 3,620.3 | 0.9 |
| 10,604 | 68.46 | 103.44 | 8,431 | -974.4 | 3,581.0 | 3,711.2 | 3.9 |

## CONSUMABLES

| CONSUMABLE | DAILY RECEIVED (gal) | DAILY USED (gal) | DAILY ON HAND (gal) |
|---|---|---|---|
| Fuel | | | 8,188 |
| Potable Water | | | 2,800 |

## TIME BREAKDOWN

| FROM | TO | HRS | PHASE | CODE | NPT | OPERATIONS |
|---|---|---|---|---|---|---|
| 06:00 | 07:00 | 1.0 | Production Drilling | Trips | | Pick up 15 joints of rental drill pipe for running liner.<br>Trip out of hole with 5 stands rental drill pipe, rack in derrick |
| 07:00 | 08:30 | 1.5 | Production Drilling | Trips | | Trip in hole with orange peel stinger pipe and regular drill pipe from 1,556' to 5,151' to spot sand |
| 08:30 | 09:00 | 0.5 | Production Drilling | Rig Service | | Service rig and top drive |
| 09:00 | 10:00 | 1.0 | Production Drilling | Trips | | Trip in hole from 5,151' to 8,000' |
| 10:00 | 10:30 | 0.5 | Production Drilling | Cond Mud & Circ | | Circulate for temperature |
| 10:30 | 11:30 | 1.0 | Production Drilling | Trips | | Trip in hole from 8,000' to 10,987'. Tag bottom and pull back 1 stand and a single to 10,864' |
| 11:30 | 12:00 | 0.5 | Production Drilling | Cond Mud & Circ | | Spot 50 bbl 60 viscosity slug of sand (1.9 lb/gal, 4,000 lb) at 10,864'<br>Chase with 168 bbl of mud to balance |
| 12:00 | 12:30 | 0.5 | Production Drilling | | | Pull out 8 stands to 10,128'. Rotate pipe with no pumps to let sand fall |
| 12:30 | 14:00 | 1.5 | Production Drilling | Cond Mud & Circ | | Mix additional 50 bbl 80 viscosity slug of sand |
| 14:00 | 14:30 | 0.5 | Production Drilling | Trips | | Trip in hole 4 stands to 10,496' |
| 14:30 | 15:00 | 0.5 | Production Drilling | Cond Mud & Circ | | Spot 50 bbl, 80 viscosity slug of sand (1.9lb/gal, 4,000 lb) at 10,496'<br>Chase with 160 bbl mud to balance |
| 15:00 | 19:00 | 4.0 | Production Drilling | Trips | | Trip out of hole from 10,496' to surface<br>Lay down orange peel stinger pipe |
| 19:00 | 00:30 | 5.5 | Production Drilling | Trips | | Trip in hole to 10,000' with clean out BHA #54 |
| 00:30 | 02:00 | 1.5 | Production Drilling | Cond Mud & Circ | | Air out pumps, break down foam with de-foamer |
| 02:00 | 06:00 | 4.0 | Production Drilling | Reaming | | Wash from 10,000 '- 10,633'<br>Pump 20 bbl 50 viscosity sweep at 10,633' , circulate out sweep , no sand |
| TOTAL HRS | | 24.0 | | | | |