



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc.

31-15S-10W Ellsworth, KS

3118 Cummings Rd.
PO Box 399
Garden City, KS 67846
ATTN: Luke Thompson

Abercrombie #1-31

Job Ticket: 58079 **DST#: 1**

Test Start: 2016.05.10 @ 19:13:48

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:56:48

Time Test Ended: 03:26:18

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 2987.00 ft (KB) To 3017.00 ft (KB) (TVD)

Reference Elevations: 1783.00 ft (KB)

Total Depth: 3017.00 ft (KB) (TVD)

1775.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 6651 Inside

Press@RunDepth: 199.56 psig @ 3014.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.10 End Date: 2016.05.11

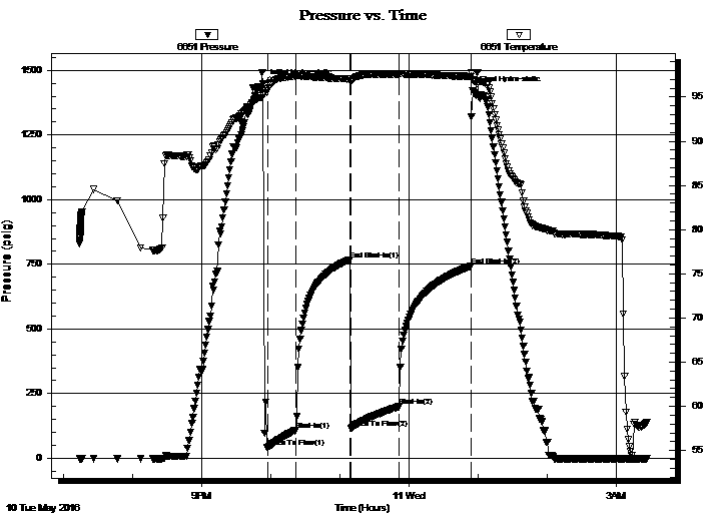
Last Calib.: 2016.05.11

Start Time: 19:13:49 End Time: 03:26:18

Time On Btm: 2016.05.10 @ 21:53:18

Time Off Btm: 2016.05.11 @ 00:55:18

TEST COMMENT: 30- IF- BOB 3mins
45- IS- BOB 39mins
45- FF- BOB instantly
60- FS- BOB 48mins



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1449.32 | 95.21 | Initial Hydro-static |
| 4 | 42.64 | 95.74 | Open To Flow (1) |
| 29 | 109.19 | 97.37 | Shut-In(1) |
| 75 | 768.01 | 97.04 | End Shut-In(1) |
| 76 | 115.15 | 96.78 | Open To Flow (2) |
| 118 | 199.56 | 97.58 | Shut-In(2) |
| 181 | 742.75 | 97.33 | End Shut-In(2) |
| 182 | 1421.43 | 96.93 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------|--------------|
| 317.00 | MW, 10%M 90%W | 4.21 |
| 95.00 | GSMCO, 35%G 15%W 10%M 40%O | 1.35 |
| 0.00 | 1046' GIP | 0.00 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



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FLUID SUMMARY

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ATTN: Luke Thompson

Abercrombie #1-31

Job Ticket: 58079 **DST#: 1**

Test Start: 2016.05.10 @ 19:13:48

Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 47.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 8.79 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 4900.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------------|---------------|
| 317.00 | MW, 10%M 90%W | 4.207 |
| 95.00 | GSWMCO, 35%G 15%W 10%M 40%O | 1.347 |
| 0.00 | 1046' GIP | 0.000 |

Total Length: 412.00 ft Total Volume: 5.554 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6651

Inside

American Warrior, Inc.

Abercrombie #1-31

DST Test Number: 1

