



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.

**17-25s-36w Kearny Co KS**

P.O. Box 299  
Garden City KS  
67846

**Gano 4-17 Twin**

Job Ticket: 65676

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2016.11.22 @ 15:33:15

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:27:00

Time Test Ended: 00:24:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

**Interval: 3619.00 ft (KB) To 3679.00 ft (KB) (TVD)**

Reference Elevations: 3036.00 ft (KB)

Total Depth: 3679.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6749 Outside**

Press@RunDepth: 764.19 psig @ 3659.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.22

End Date: 2016.11.23

Last Calib.: 2016.11.23

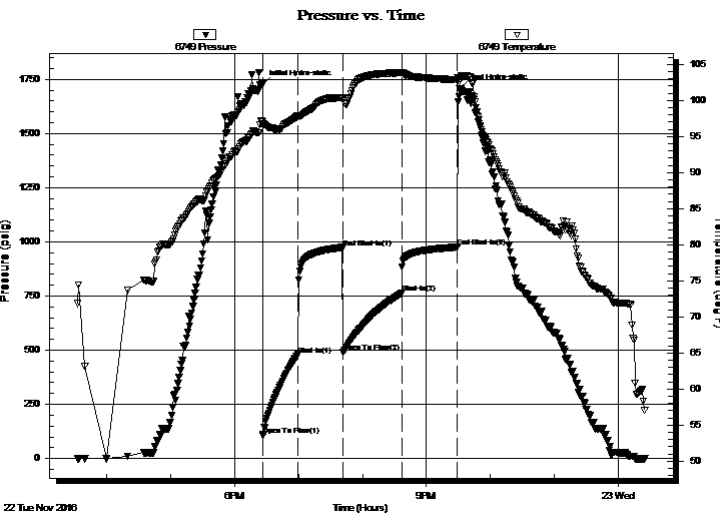
Start Time: 15:33:15

End Time: 00:24:15

Time On Btm: 2016.11.22 @ 18:26:30

Time Off Btm: 2016.11.22 @ 21:31:00

**TEST COMMENT:** IF:BOB in 2 min.  
IS:No return blow  
FF:BOB in 3 min.  
FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.36	97.06	Initial Hydro-static
1	106.27	96.63	Open To Flow (1)
33	479.16	97.83	Shut-In(1)
75	974.20	100.36	End Shut-In(1)
76	490.71	100.23	Open To Flow (2)
131	764.19	103.84	Shut-In(2)
183	975.45	102.83	End Shut-In(2)
185	1706.64	102.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
236.00	sw 100% sw	1.16
620.00	ocmw 3%o5%m 92%w	8.70
310.00	ocmw 3%o 30%m 67%w	4.35
372.00	ocw m 3%o 47%w 50%m	5.22
0.00	6" free oil	0.00

\* Recovery from multiple tests

## Gas Rates

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



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Total Depth: 3679.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3036.00 ft (KB)

3026.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8672 Inside**

Press@RunDepth: psig @ 3659.00 ft (KB)

Start Date: 2016.11.22

End Date: 2016.11.23

Capacity: 8000.00 psig

Last Calib.: 2016.11.23

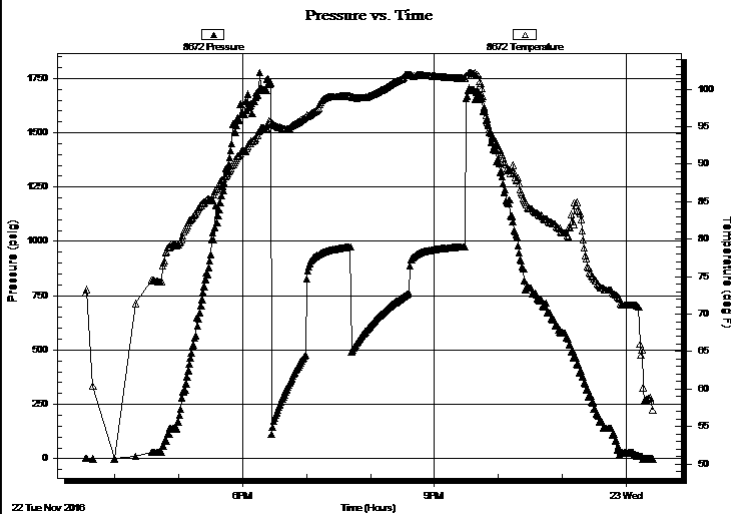
Start Time: 15:33:15

End Time: 00:24:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 2 min.  
 IS:No return blow  
 FF:BOB in 3 min.  
 FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
236.00	sw 100% sw	1.16
620.00	ocmw 3%o5%m 92%w	8.70
310.00	ocmw 3%o 30%m 67%w	4.35
372.00	ocw m 3%o 47%w 50%m	5.22
0.00	6" free oil	0.00

## Gas Rates

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

\* Recovery from multiple tests



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**FLUID SUMMARY**

American Warrior Inc.

**17-25s-36w Kearny Co KS**

P.O. Box 299  
Garden City KS  
67846

**Gano 4-17 Twin**

Job Ticket: 65676

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2016.11.22 @ 15:33:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
236.00	sw 100% sw	1.161
620.00	ocmw 3%o5%m 92%w	8.697
310.00	ocmw 3%o 30%m 67%w	4.348
372.00	ocw m 3%o 47%w 50%m	5.218
0.00	6" free oil	0.000

Total Length: 1538.00 ft      Total Volume: 19.424 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

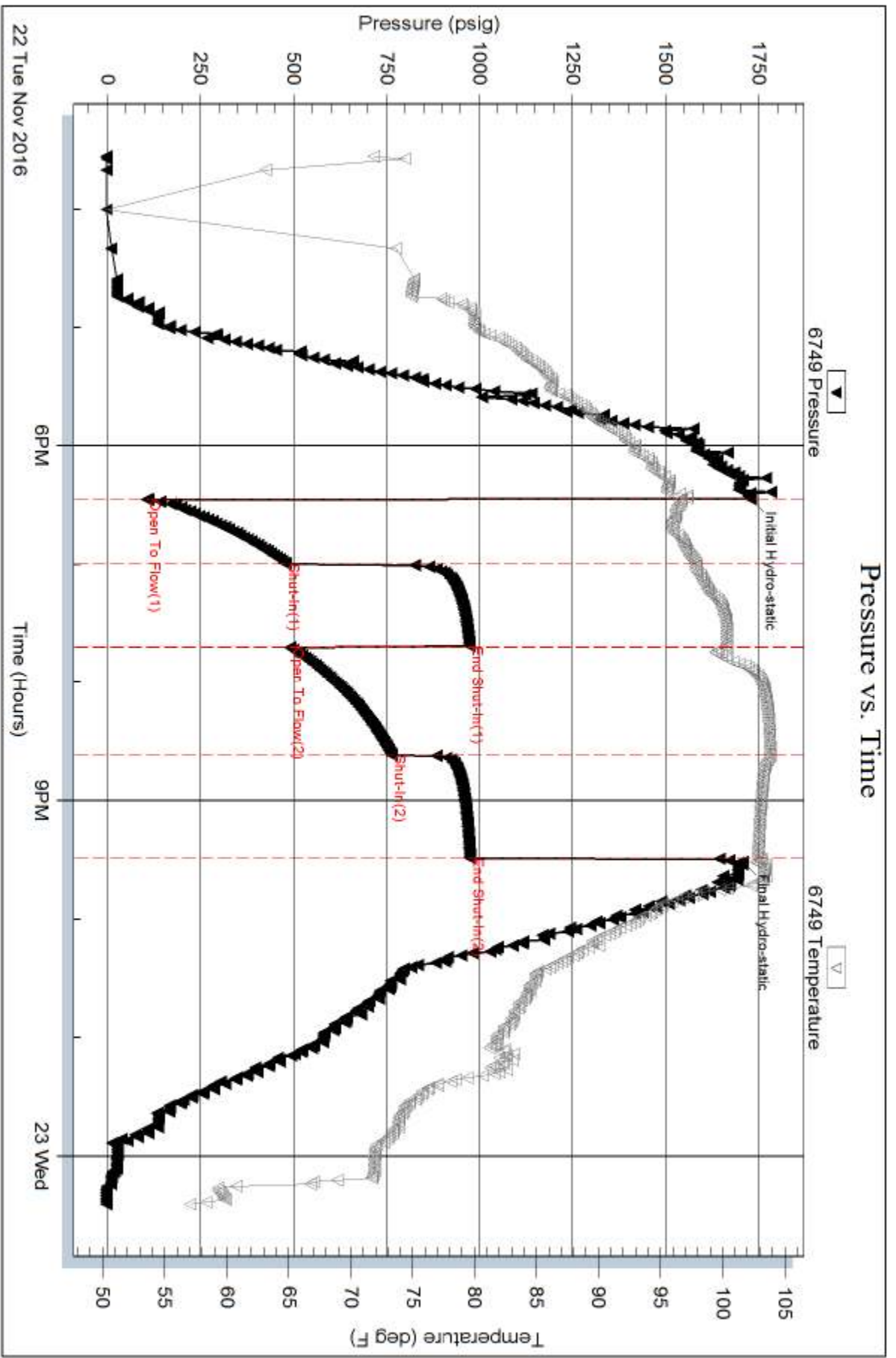
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 24 @ 50 corrected to 23

RW= .375@ 47.3= 25,000 ppm



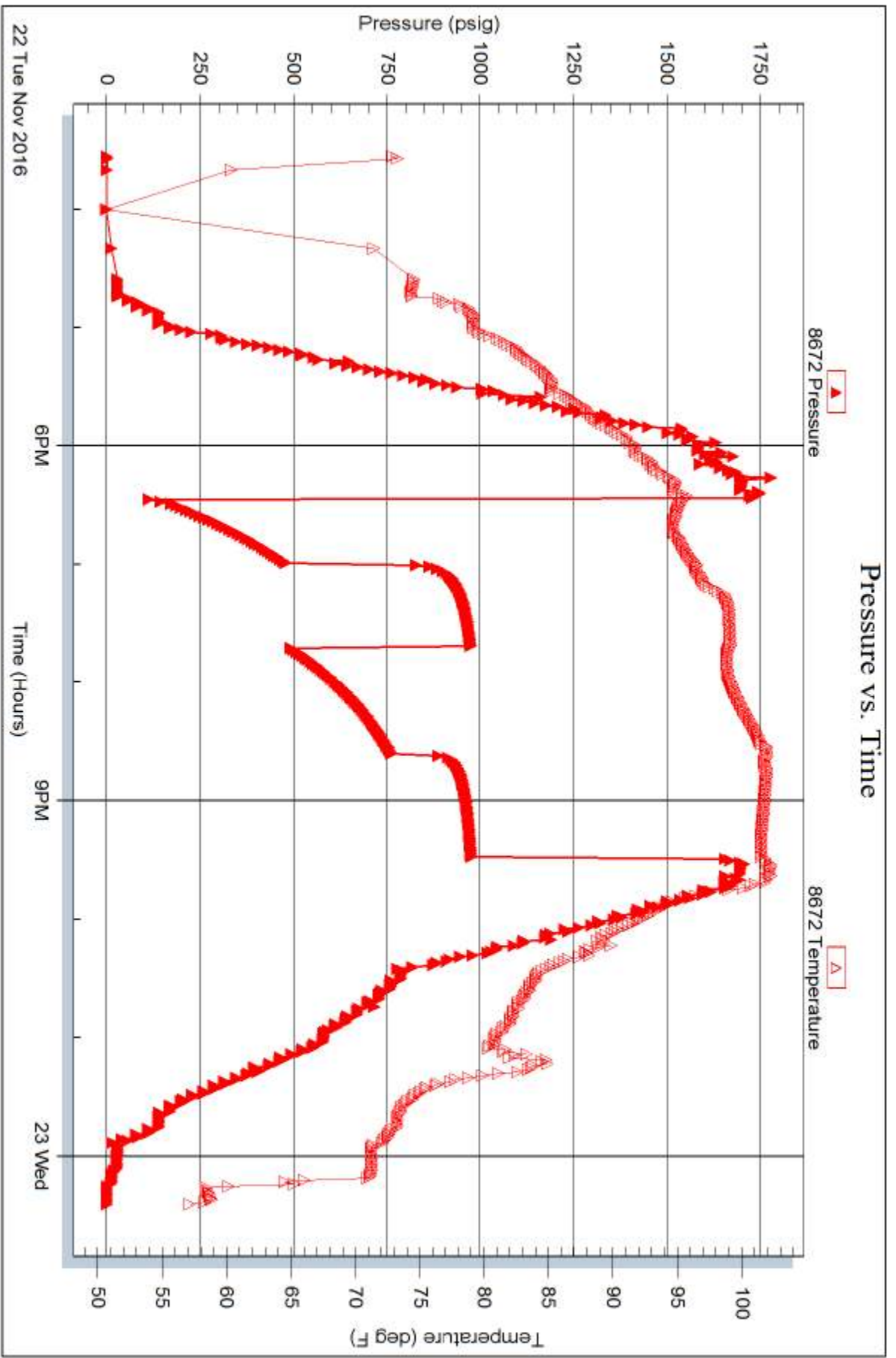
Serial #: 8672

Inside

American Warrior Inc.

Gano 4-17 Tw in

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65676

Printed: 2016.11.23 @ 07:25:03