



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc

**20-25s-36w Kearny, Ks**

3118 Cummings Rd  
Garden City, Ks 67846

**Lee 2-20**

Job Ticket: 65657

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2017.02.09 @ 07:36:26

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:59:26

Time Test Ended: 17:52:26

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

**Interval: 4812.00 ft (KB) To 4853.00 ft (KB) (TVD)**

Reference Elevations: 3060.00 ft (KB)

Total Depth: 4853.00 ft (KB) (TVD)

3048.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

**Serial #: 8166 Outside**

Press@RunDepth: 93.28 psig @ 4813.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.09

End Date:

2017.02.09

Last Calib.:

2017.02.09

Start Time: 07:36:31

End Time:

17:52:26

Time On Btm:

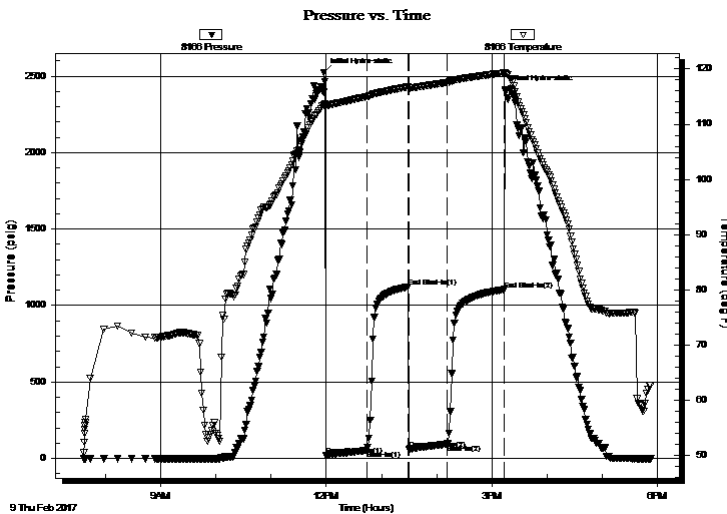
2017.02.09 @ 11:57:26

Time Off Btm:

2017.02.09 @ 15:14:26

**TEST COMMENT:** IF: BOB in 31 min.  
IS: No return.  
FF: BOB in 10 min.  
FS: Surface blow built to 2 died in 45 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2524.51	113.46	Initial Hydro-static
2	20.62	113.21	Open To Flow (1)
47	52.85	114.99	Shut-In(1)
92	1122.67	116.77	End Shut-In(1)
93	61.01	116.52	Open To Flow (2)
134	93.28	117.54	Shut-In(2)
196	1104.42	119.28	End Shut-In(2)
197	2412.85	119.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	gocw m 10%g 35%o 5%w 50%m	0.61
82.00	go 40%g 60%o	0.40
0.00	1096 GIP	0.00

## Gas Rates

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



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**Lee 2-20**

Job Ticket: 65657

**DST#: 1**

Test Start: 2017.02.09 @ 07:36:26

### GENERAL INFORMATION:

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Deviated: No Whipstock: ft (KB)

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Total Depth: 4853.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 3060.00 ft (KB)

3048.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 8875**

Inside

Press@RunDepth: psig @ 4813.00 ft (KB)

Start Date: 2017.02.09

End Date:

2017.02.09

Start Time: 07:36:12

End Time:

17:52:07

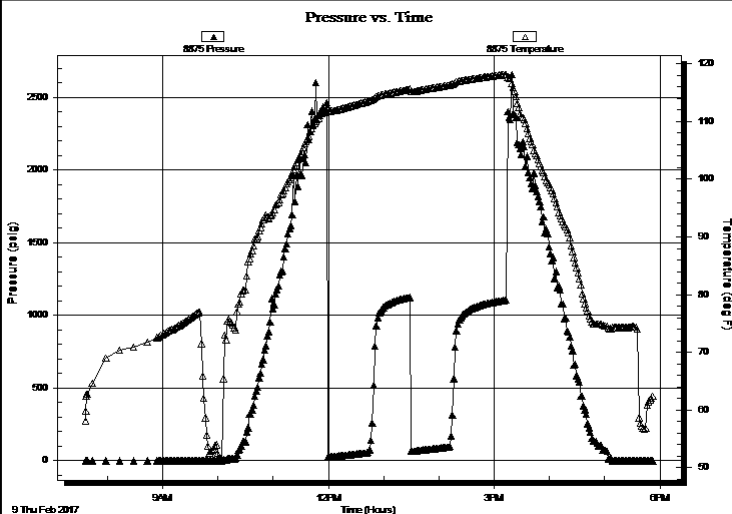
Capacity: 8000.00 psig

Last Calib.: 2017.02.09

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: BOB in 31 min.  
IS: No return.  
FF: BOB in 10 min.  
FS: Surface blow built to 2 died in 45 min.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	gocw m 10%g 35%o 5%w 50%m	0.61
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0.00	1096 GIP	0.00

### Gas Rates

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



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

**20-25s-36w Kearny, Ks**

3118 Cummings Rd  
Garden City, Ks 67846

**Lee 2-20**

Job Ticket: 65657

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2017.02.09 @ 07:36:26

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 950.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	gocw m 10%g 35%o 5%w 50%m	0.610
82.00	go 40%g 60%o	0.403
0.00	1096 GIP	0.000

Total Length: 206.00 ft      Total Volume: 1.013 bbl

Num Fluid Samples: 0

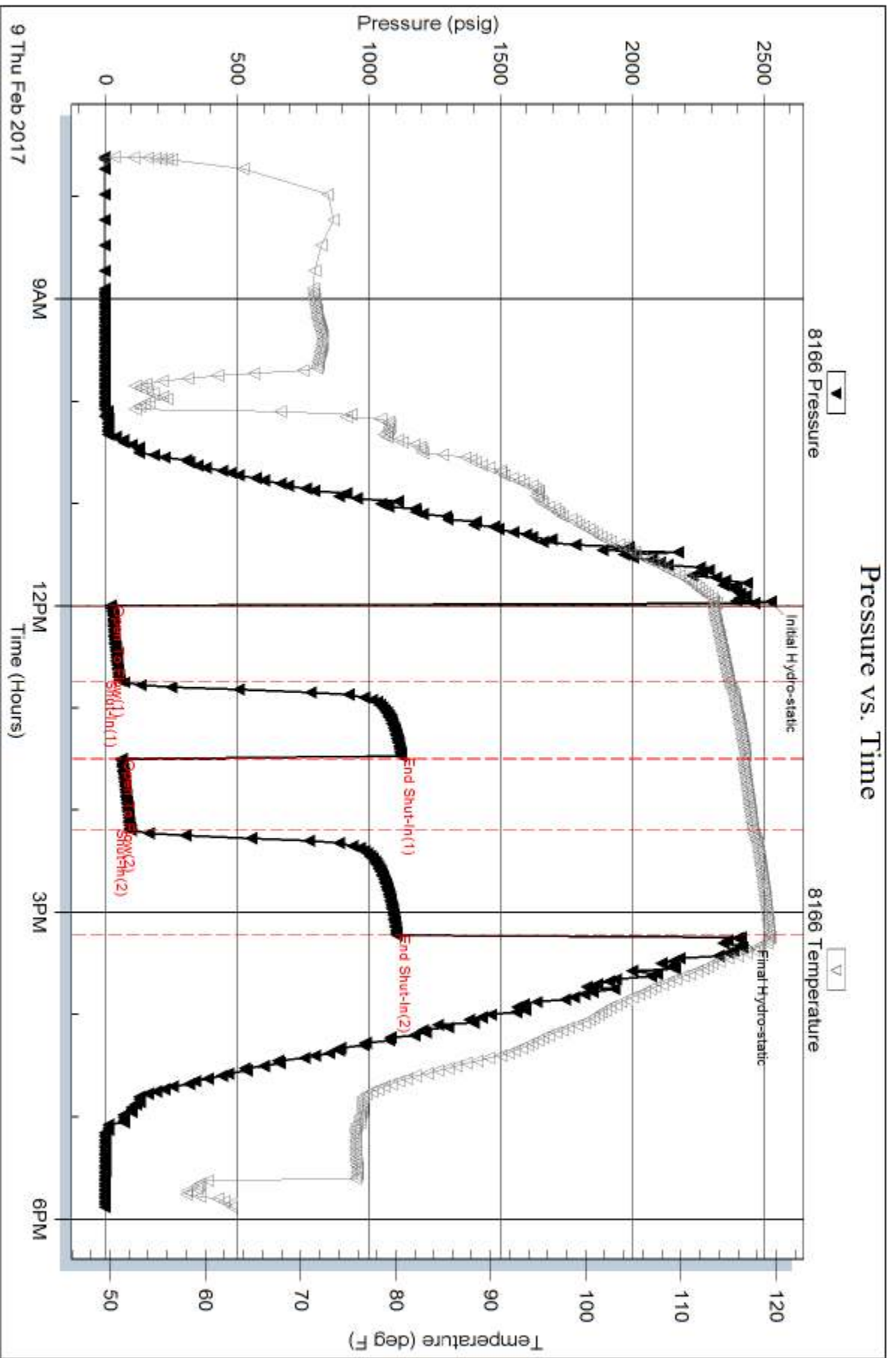
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 32@60=32



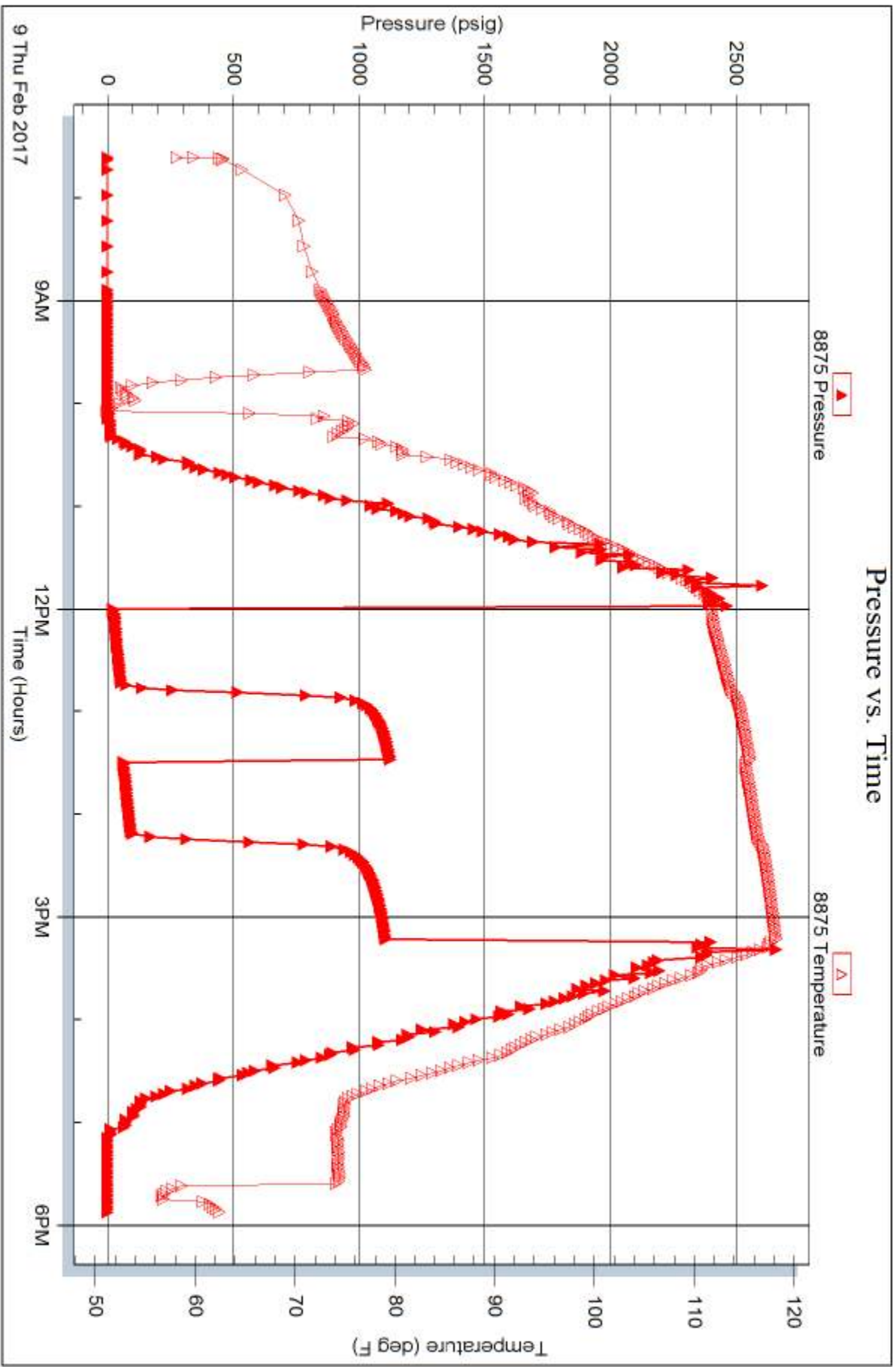
Serial #: 8875

Inside

American Warrior Inc

Lee 2-20

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65657

Printed: 2017.02.09 @ 19:38:20