



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
 3118 Cummings Rd  
 PO Box 399  
 Garden City Ks 67846  
 ATTN: Cecil O'Brate, Luke

**28-13s-19w Ellis**  
**Dorothy #1-28**  
 Job Ticket: 64918 **DST#: 2**  
 Test Start: 2016.02.16 @ 08:31:01

## GENERAL INFORMATION:

Formation: **LKC H-K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:17:56  
 Time Test Ended: 15:19:10  
 Interval: **3654.00 ft (KB) To 3734.00 ft (KB) (TVD)**  
 Total Depth: 3734.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 2193.00 ft (KB)  
 2185.00 ft (CF)  
 KB to GR/CF: 8.00 ft

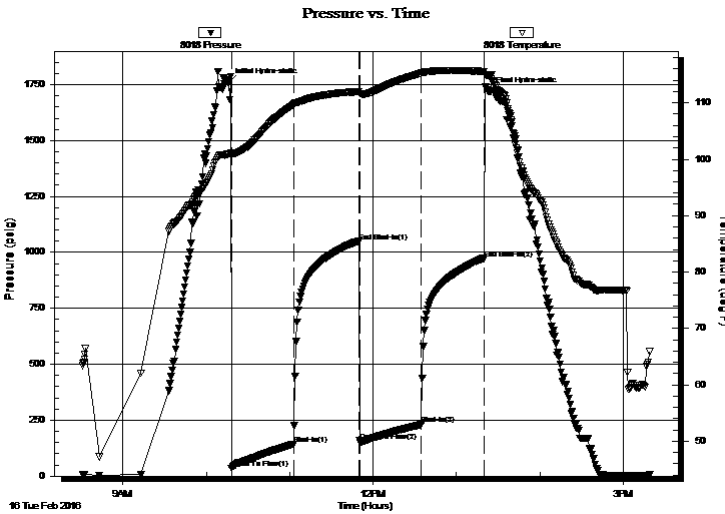
## Serial #: 8018

Inside

Press@RunDepth: 230.92 psig @ 3656.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.02.16 End Date: 2016.02.16 Last Calib.: 2016.02.16  
 Start Time: 08:31:01 End Time: 15:19:10 Time On Btm: 2016.02.16 @ 10:15:56  
 Time Off Btm: 2016.02.16 @ 13:23:25

TEST COMMENT: 45-IFP-w k to a strg bl in 35min  
 45-ISIP-no bl bk  
 45-FFP- w k to a gd bl , 1/2"to 8" bl  
 45-FSIP-no bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.09	100.95	Initial Hydro-static
2	35.81	100.61	Open To Flow (1)
47	143.10	109.69	Shut-In(1)
94	1047.84	111.97	End Shut-In(1)
95	157.48	111.57	Open To Flow (2)
139	230.92	115.25	Shut-In(2)
184	972.09	115.56	End Shut-In(2)
188	1720.22	114.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
435.00	water	5.83
62.00	OCWM 10%O40%W50%M	0.87
10.00	HOCM 40%O60%M	0.14

\* Recovery from multiple tests

## Gas Rates

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





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**FLUID SUMMARY**

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**28-13s-19w Ellis**

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PO Box 399  
Garden City Ks 67846

**Dorothy #1-28**

Job Ticket: 64918

**DST#: 2**

ATTN: Cecil O'Brate, Luke

Test Start: 2016.02.16 @ 08:31:01

## 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: 101000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
435.00	water	5.829
62.00	OCWM 10%O40%W50%M	0.870
10.00	HOCM 40%O60%M	0.140

Total Length: 507.00 ft      Total Volume: 6.839 bbf

Num Fluid Samples: 0

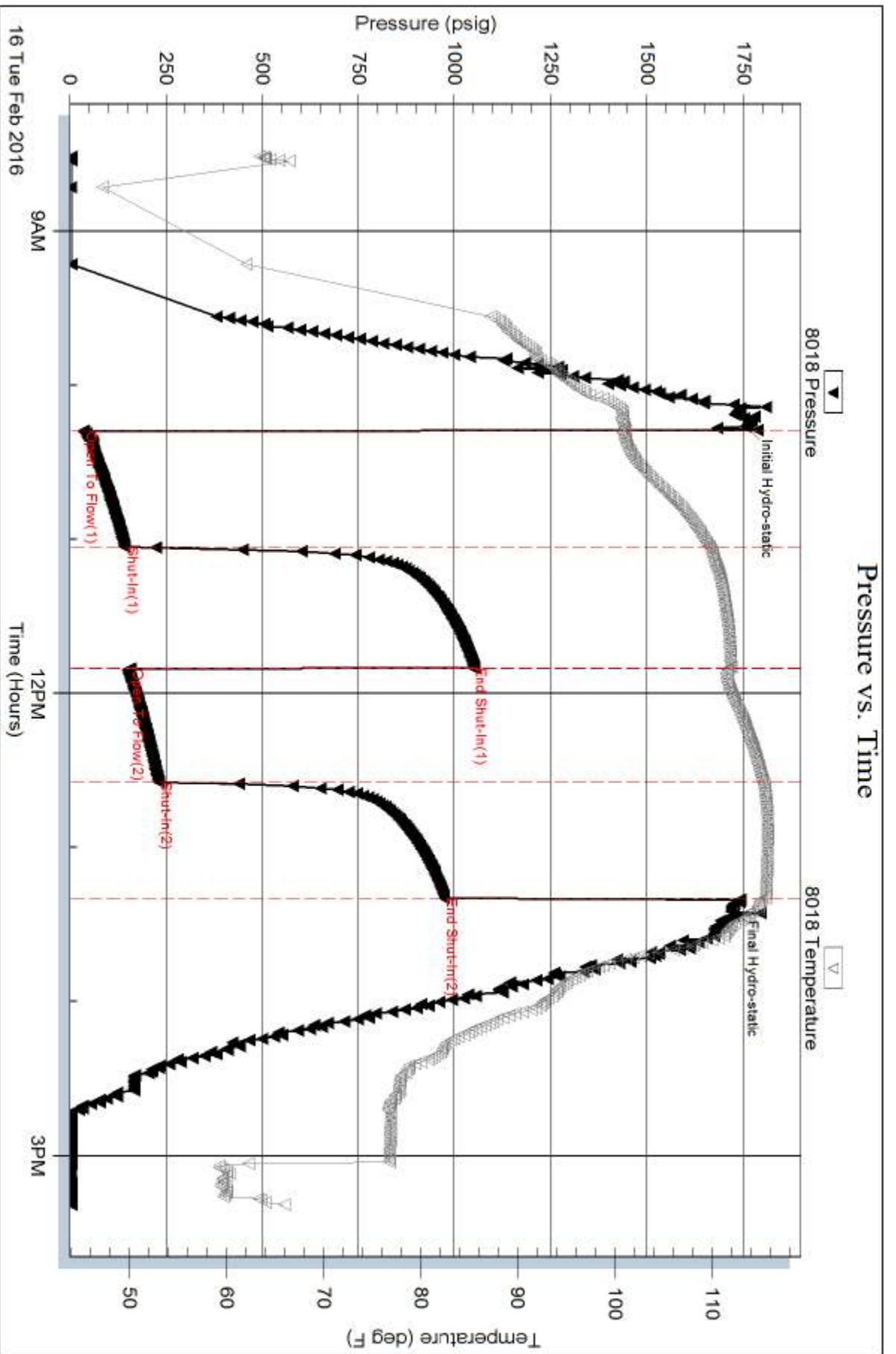
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .07@75F

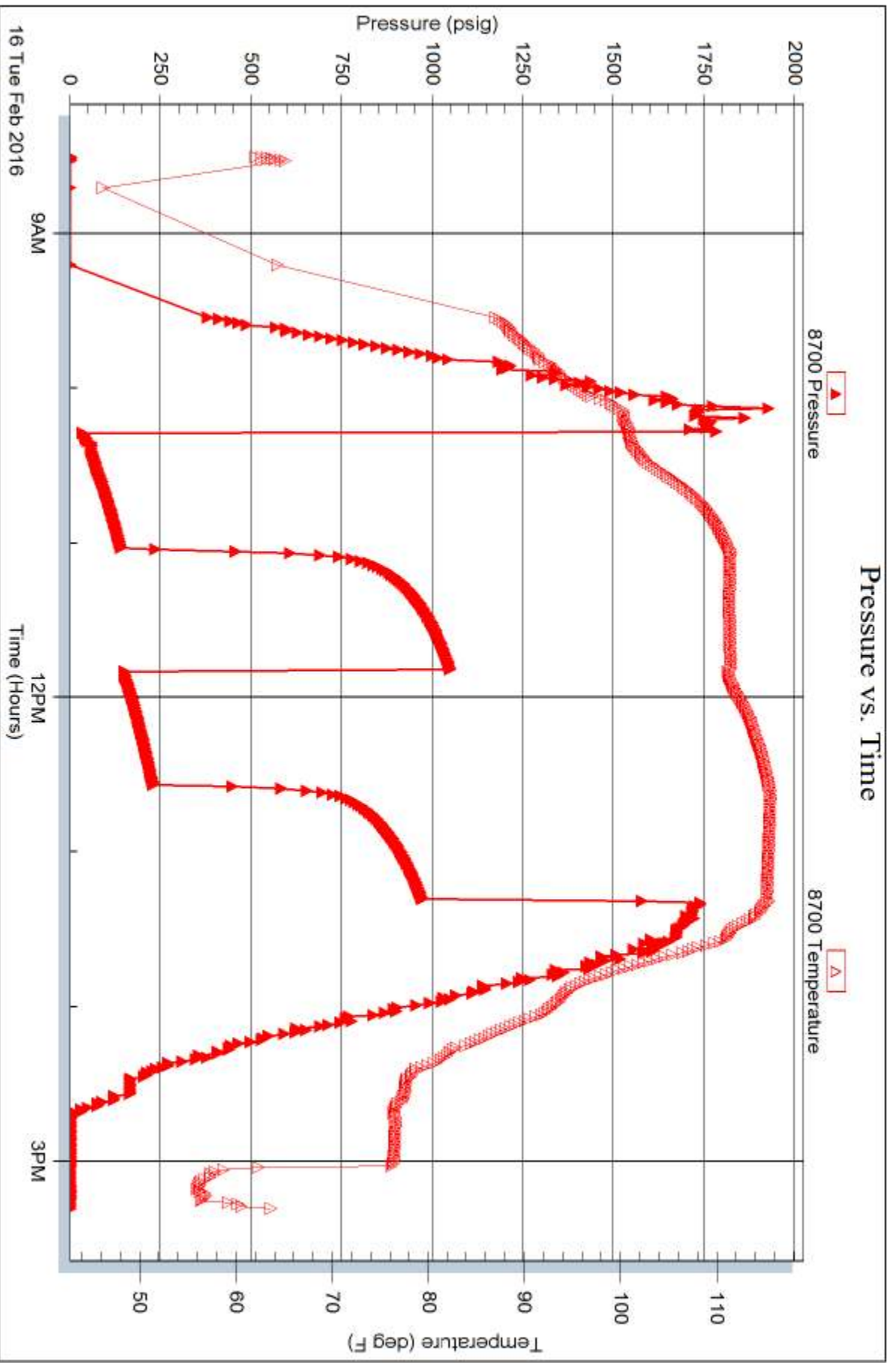


Serial #: 8700

Outside American Warrior Inc

Dorothy #1-28

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64918

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