



## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City KS 67826

ATTN: Kevin Timson

**O'Brate-Finney #3-15**

**15-25s-31w Finney,KS**

Start Date: 2014.06.18 @ 05:32:00

End Date: 2014.06.18 @ 11:14:15

Job Ticket #: 56651                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.06.25 @ 08:54:56



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**15-25s-31w Finney,KS**

PO Box 399  
Garden City KS 67826

**O'Brate-Finney #3-15**

Job Ticket: 56651 **DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.06.18 @ 05:32:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:09:45

Time Test Ended: 11:14:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Harris

Unit No: 72

**Interval: 4416.00 ft (KB) To 4490.00 ft (KB) (TVD)**

Reference Elevations: 2801.00 ft (KB)

Total Depth: 4490.00 ft (KB) (TVD)

2790.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

**Serial #: 8674 Inside**

Press@RunDepth: 21.53 psig @ 4417.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.18

End Date:

2014.06.18

Last Calib.: 2014.06.18

Start Time: 05:32:05

End Time:

11:14:14

Time On Btm: 2014.06.18 @ 08:09:30

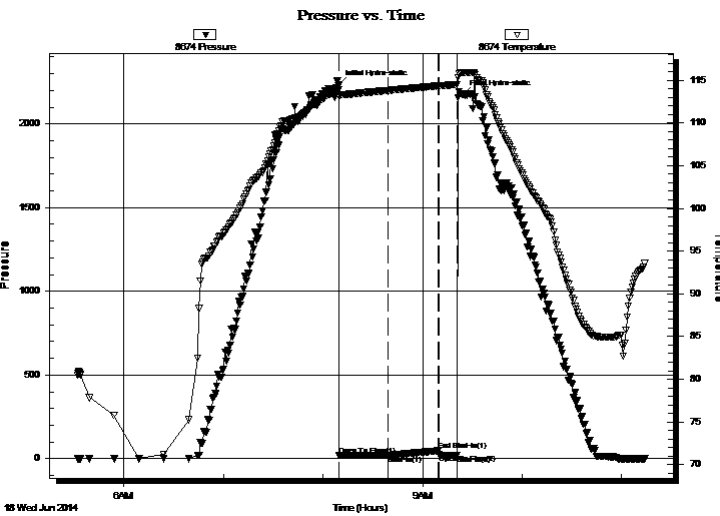
Time Off Btm: 2014.06.18 @ 09:24:15

TEST COMMENT: 30: Weak surface blow died in 6 min.

30: No Return

10: No Blow

Pull



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.45	113.91	Initial Hydro-static
1	20.12	113.13	Open To Flow (1)
30	21.53	113.81	Shut-In(1)
60	47.93	114.35	End Shut-In(1)
61	23.25	114.33	Open To Flow (2)
71	22.36	114.51	Shut-In(2)
75	2175.35	115.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.07

## Gas Rates

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**15-25s-31w Finney,KS**

PO Box 399  
Garden City KS 67826

**O'Brate-Finney #3-15**

Job Ticket: 56651 **DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.06.18 @ 05:32:00

## Tool Information

Drill Pipe:	Length: 4394.00 ft	Diameter: 3.80 inches	Volume: 61.64 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 61.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4416.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4390.00	
Shut In Tool	5.00			4395.00	
Hydraulic tool	5.00			4400.00	
Jars	5.00			4405.00	
Safety Joint	2.00			4407.00	
Packer	5.00			4412.00	27.00 Bottom Of Top Packer
Packer	4.00			4416.00	
Stubb	1.00			4417.00	
Recorder	0.00	8355	Outside	4417.00	
Recorder	0.00	8674	Inside	4417.00	
Perforations	3.00			4420.00	
Change Over Sub	1.00			4421.00	
Drill Pipe	63.00			4484.00	
Change Over Sub	1.00			4485.00	
Bullnose	5.00			4490.00	74.00 Bottom Packers & Anchor

**Total Tool Length: 101.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**15-25s-31w Finney,KS**

PO Box 399  
Garden City KS 67826

**O'Brate-Finney #3-15**

Job Ticket: 56651 **DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.06.18 @ 05:32:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 44.00 sec/qt  
Water Loss: 8.78 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2800.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 0 deg API  
Water Salinity: 0 ppm

## Recovery Information

Recovery Table

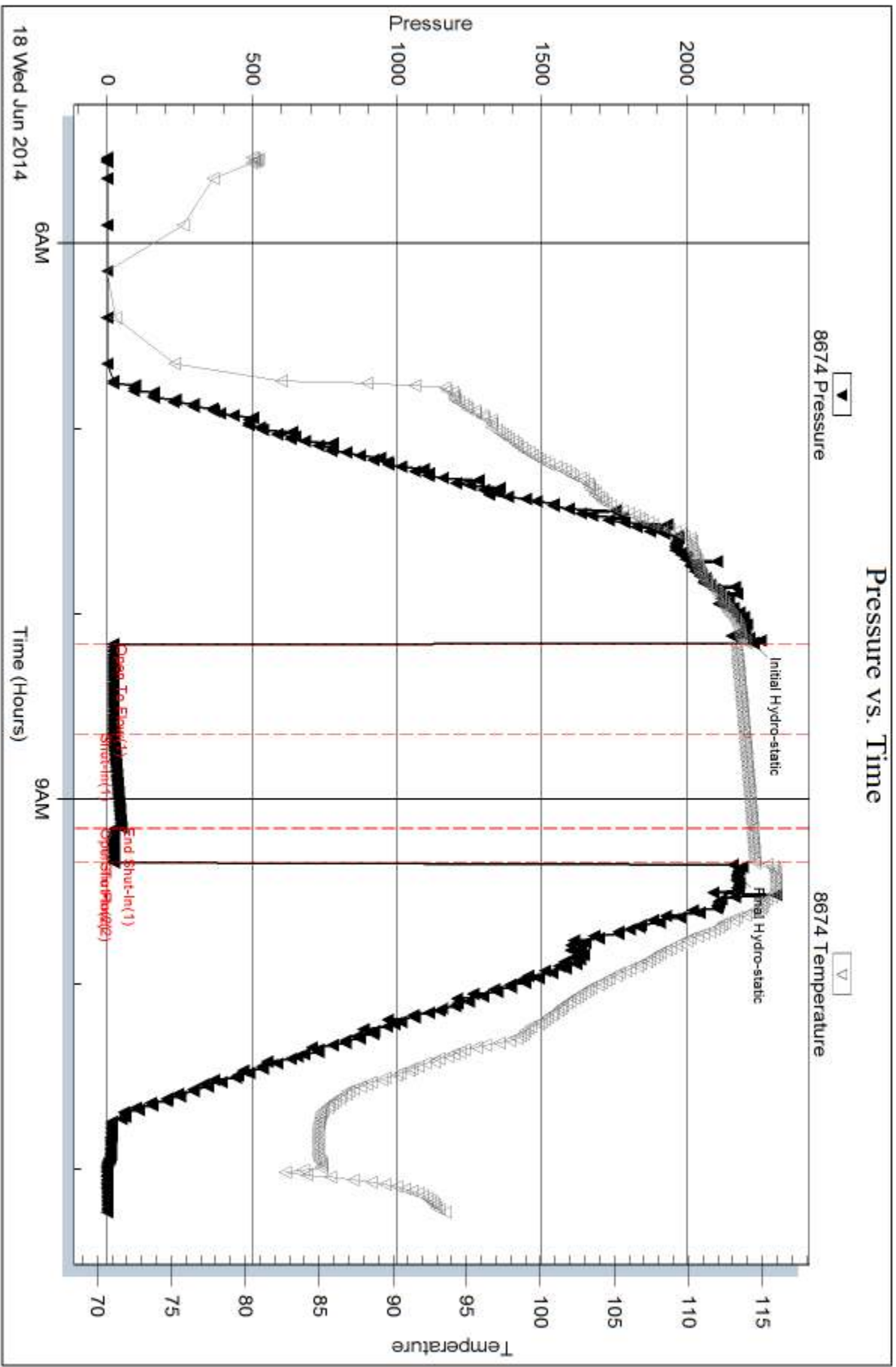
Length ft	Description	Volume bbl
5.00	mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City KS 67826

ATTN: Kevin Timson

### **O'Brate-Finney #3-15**

### **15-25s-31w Finney,KS**

Start Date: 2014.06.18 @ 23:20:00

End Date: 2014.06.19 @ 07:15:00

Job Ticket #: 56652                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.06.25 @ 08:53:55

American Warrior, Inc.

15-25s-31w Finney,KS

O'Brate-Finney #3-15

DST # 2

Pawnee

2014.06.18



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.  
 PO Box 399  
 Garden City KS 67826  
 ATTN: Kevin Timson

**15-25s-31w Finney,KS**  
**O'Brate-Finney #3-15**  
 Job Ticket: 56652 **DST#: 2**  
 Test Start: 2014.06.18 @ 23:20:00

## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:52:45  
 Time Test Ended: 07:15:00  
 Interval: **4549.00 ft (KB) To 4570.00 ft (KB) (TVD)**  
 Total Depth: 4570.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Justin Harris  
 Unit No: 72  
 Reference Elevations: 2801.00 ft (KB)  
 2790.00 ft (CF)  
 KB to GR/CF: 11.00 ft

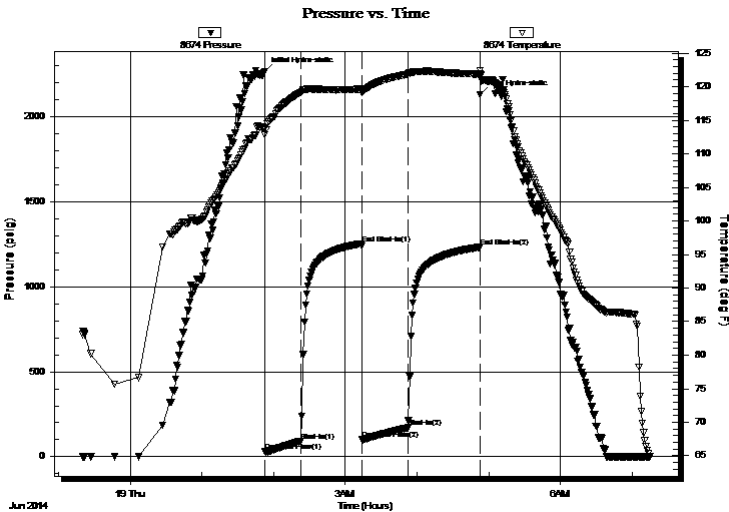
## Serial #: 8674

Inside

Press@RunDepth: 171.02 psig @ 4550.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.06.18 End Date: 2014.06.19 Last Calib.: 2014.06.19  
 Start Time: 23:20:05 End Time: 07:14:59 Time On Btm: 2014.06.19 @ 01:52:30  
 Time Off Btm: 2014.06.19 @ 04:52:45

TEST COMMENT: 30: B.O.B in 6 min  
 45: Retrun Blow built to 1"  
 45: B.O.B in 9 min  
 60: Retrun Blow built to 2"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2265.69	113.86	Initial Hydro-static
1	31.21	112.80	Open To Flow (1)
31	91.83	119.17	Shut-In(1)
81	1254.46	119.62	End Shut-In(1)
82	103.92	119.09	Open To Flow (2)
120	171.02	121.88	Shut-In(2)
180	1233.53	121.88	End Shut-In(2)
181	2132.05	122.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	Gmcow 10%g 50%o 20%m 20%w	0.88
186.00	mcw 95%w 5%m	2.61
0.00	G.I.P.496'	0.00

\* Recovery from multiple tests

## Gas Rates

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







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**TOOL DIAGRAM**

American Warrior, Inc.

**15-25s-31w Finney,KS**

PO Box 399  
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**O'Brate-Finney #3-15**

Job Ticket: 56652 **DST#: 2**

ATTN: Kevin Timson

Test Start: 2014.06.18 @ 23:20:00

## Tool Information

Drill Pipe:	Length: 4551.00 ft	Diameter: 3.80 inches	Volume: 63.84 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 63.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4549.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4523.00	
Shut In Tool	5.00			4528.00	
Hydraulic tool	5.00			4533.00	
Jars	5.00			4538.00	
Safety Joint	2.00			4540.00	
Packer	5.00			4545.00	27.00 Bottom Of Top Packer
Packer	4.00			4549.00	
Stubb	1.00			4550.00	
Recorder	0.00	8355	Outside	4550.00	
Recorder	0.00	8674	Inside	4550.00	
Perforations	15.00			4565.00	
Bullnose	5.00			4570.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 48.00**



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**FLUID SUMMARY**

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**15-25s-31w Finney,KS**

PO Box 399  
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**O'Brate-Finney #3-15**

Job Ticket: 56652 **DST#: 2**

ATTN: Kevin Timson

Test Start: 2014.06.18 @ 23:20:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 44.00 sec/qt  
Water Loss: 9.19 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4400.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 0 deg API  
Water Salinity: 7500 ppm

## Recovery Information

Recovery Table

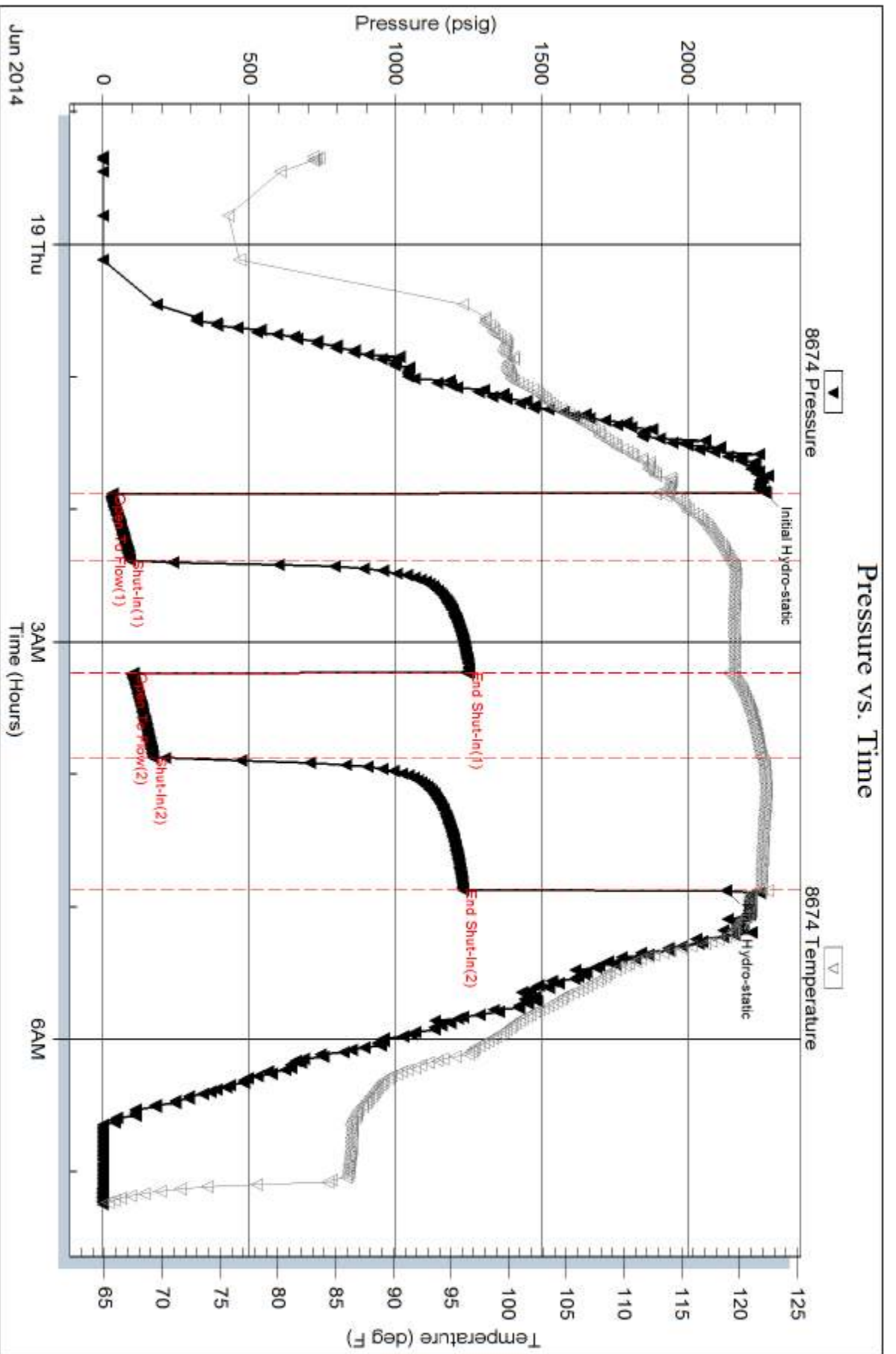
Length ft	Description	Volume bbl
63.00	Gmcow 10%g 50%o 20%m 20%w	0.884
186.00	mcw 95%w 5%m	2.609
0.00	G.I.P 496'	0.000

Total Length: 249.00 ft Total Volume: 3.493 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

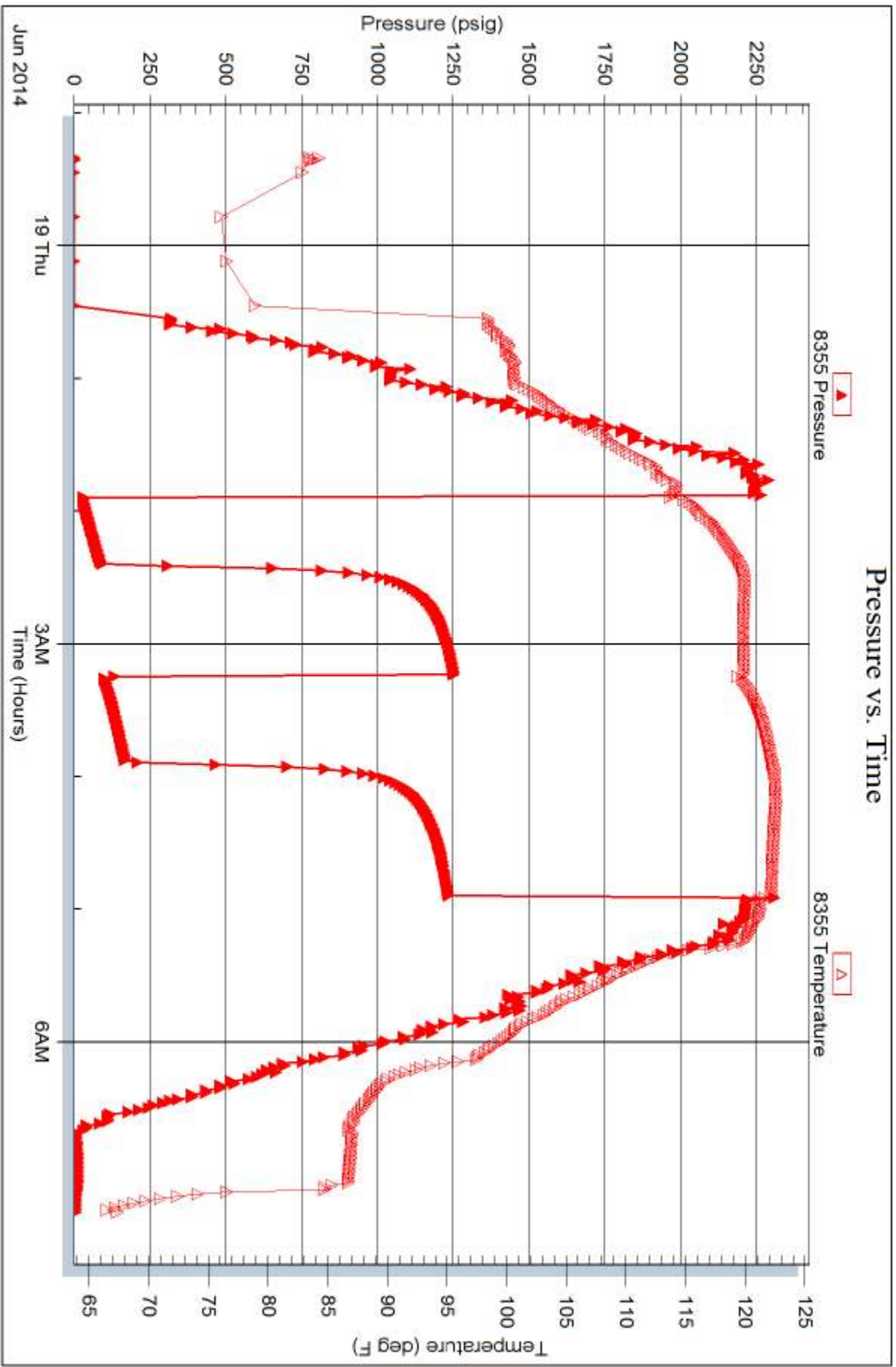


Serial #: 8355

Outside American Warrior, Inc.

OBrate-Finney #3-15

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56652

Printed: 2014.06.25 @ 08:53:57