



## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **O'Brate-Finney #6-5**

### **S5-23s-32w Finney/KS**

Start Date: 2015.03.25 @ 17:34:00

End Date: 2015.03.26 @ 00:43:09

Job Ticket #: 61572                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 14:05:18

American Warrior, Inc.

S5-23s-32w Finney/KS

O'Brate-Finney #6-5

DST # 1

Lansing 'L'

2015.03.25



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 61572 **DST#: 1**

ATTN: Kevin Timson

Test Start: 2015.03.25 @ 17:34:00

## GENERAL INFORMATION:

Formation: **Lansing 'L'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:51:20

Time Test Ended: 00:43:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 61

**Interval: 4280.00 ft (KB) To 4322.00 ft (KB) (TVD)**

Reference Elevations: 2872.00 ft (KB)

Total Depth: 4322.00 ft (KB) (TVD)

2861.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8357**

**Inside**

Press@RunDepth: 784.96 psig @ 4281.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.25

End Date:

2015.03.26

Last Calib.: 2015.03.26

Start Time: 17:34:02

End Time:

00:43:10

Time On Btm: 2015.03.25 @ 19:49:10

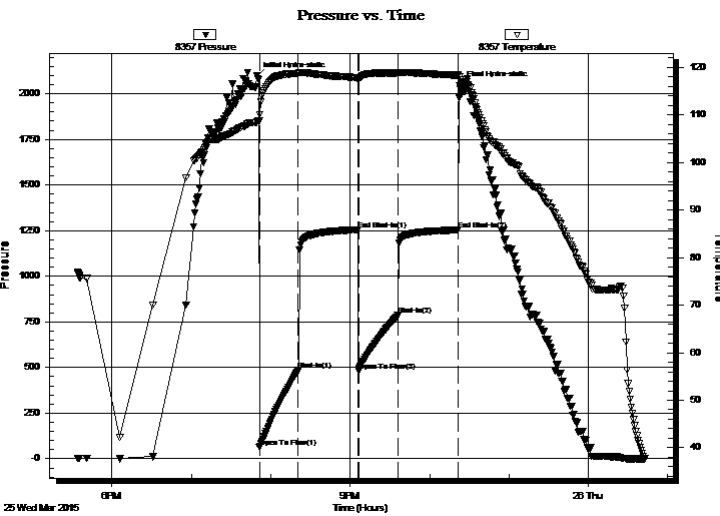
Time Off Btm: 2015.03.25 @ 22:22:39

TEST COMMENT: 30- B.O.B. @ 3 min.

45- No return.

30- B.O.B. @ 4 min.

45- No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2095.97	108.49	Initial Hydro-static
3	61.46	108.85	Open To Flow (1)
32	483.50	118.75	Shut-In(1)
77	1254.68	117.86	End Shut-In(1)
77	482.70	117.51	Open To Flow (2)
107	784.96	118.79	Shut-In(2)
153	1252.91	118.38	End Shut-In(2)
154	2043.66	118.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1222.00	MW 5m 95w	17.32
468.00	OSMW 45m 55w	6.63

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 61572

**DST#: 1**

ATTN: Kevin Timson

Test Start: 2015.03.25 @ 17:34:00

## Tool Information

Drill Pipe:	Length: 4260.00 ft	Diameter: 3.82 inches	Volume: 60.39 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.50 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4280.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	69.50 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			4253.50	
Shut In Tool	5.00			4258.50	
Hydraulic tool	5.00			4263.50	
Jars	5.00			4268.50	
Safety Joint	2.50			4271.00	
Packer	5.00			4276.00	27.50 Bottom Of Top Packer
Packer	4.00			4280.00	
Stubb	1.00			4281.00	
Recorder	0.00	8357	Inside	4281.00	
Recorder	0.00	6751	Outside	4281.00	
Perforations	5.00			4286.00	
Change Over Sub	1.00			4287.00	
Drill Pipe	31.00			4318.00	
Change Over Sub	1.00			4319.00	
Bullnose	3.00			4322.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 69.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 61572      **DST#: 1**

ATTN: Kevin Timson

Test Start: 2015.03.25 @ 17:34:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 8.36 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1050.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: 79000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1222.00	MW 5m 95w	17.322
468.00	OSMW 45m 55w	6.634

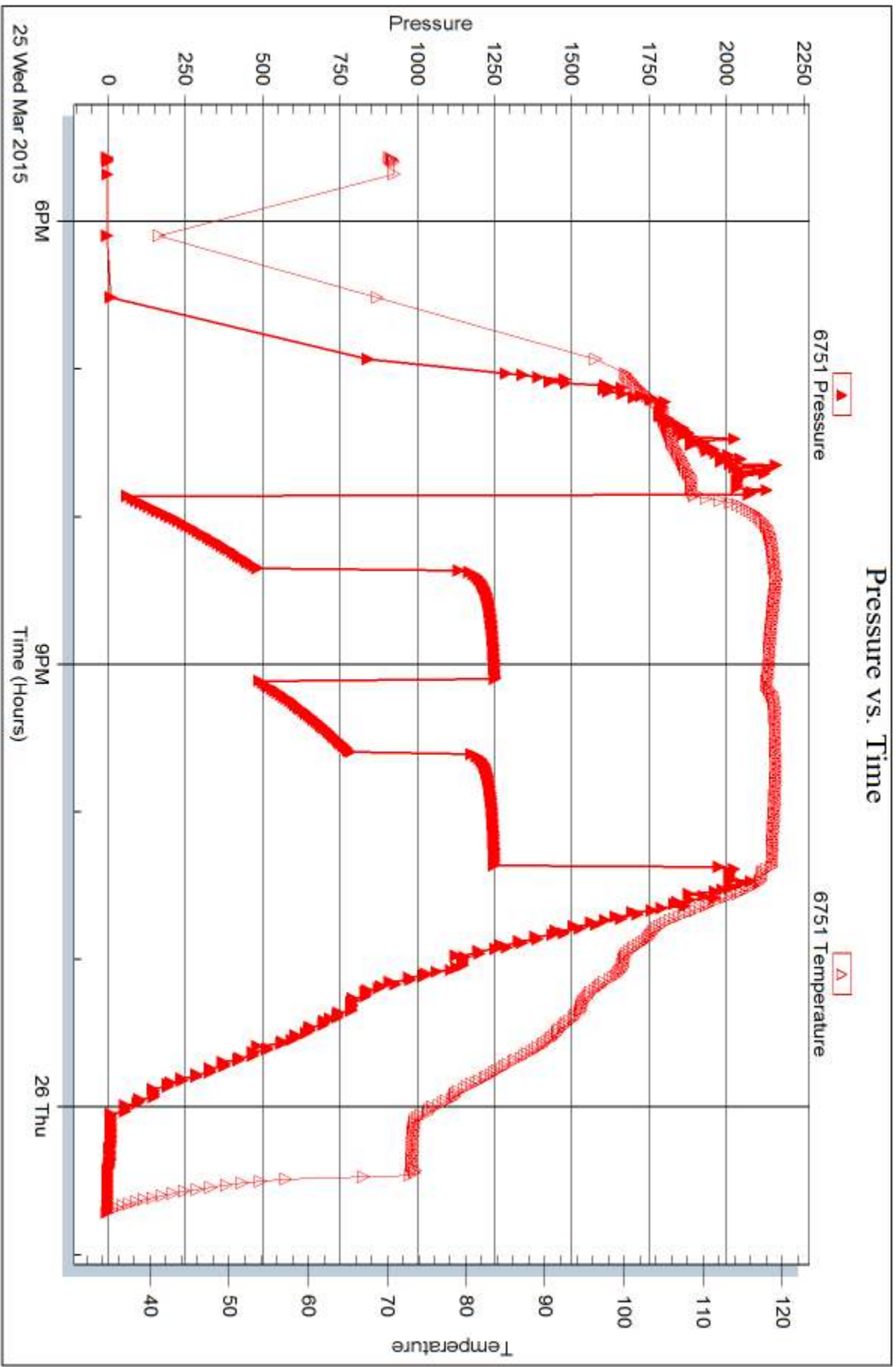
Total Length: 1690.00 ft      Total Volume: 23.956 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW: .152 @ 46 Degrees F = 79000 PPM







## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **O'Brate-Finney #6-5**

### **S5-23s-32w Finney/KS**

Start Date: 2015.03.26 @ 13:56:00

End Date: 2015.03.26 @ 18:55:50

Job Ticket #: 61573                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 14:04:48

American Warrior, Inc.

S5-23s-32w Finney/KS

O'Brate-Finney #6-5

DST # 2

Marmaton

2015.03.26





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 61573 **DST#: 2**

ATTN: Kevin Timson

Test Start: 2015.03.26 @ 13:56:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:57:20

Time Test Ended: 18:55:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 61

**Interval: 4358.00 ft (KB) To 4454.00 ft (KB) (TVD)**

Reference Elevations: 2872.00 ft (KB)

Total Depth: 4454.00 ft (KB) (TVD)

2861.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8357**

**Inside**

Press@RunDepth: 22.71 psig @ 4359.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.26

End Date:

2015.03.26

Last Calib.:

2015.03.26

Start Time:

13:56:02

End Time:

18:55:49

Time On Btm:

2015.03.26 @ 15:55:20

Time Off Btm:

2015.03.26 @ 17:10:00

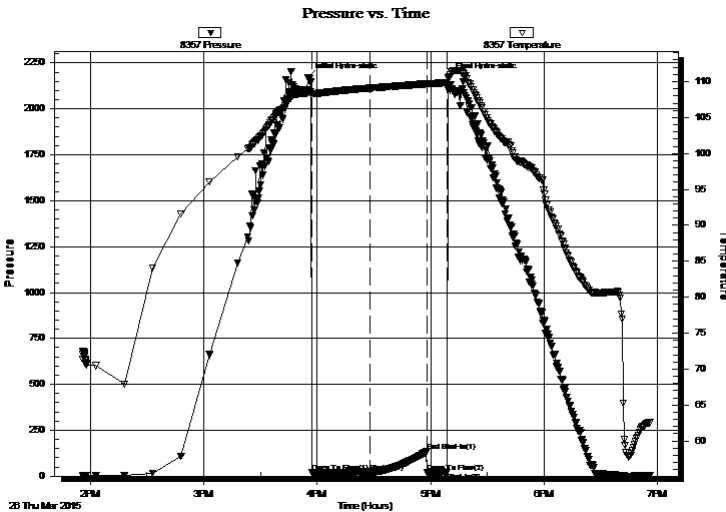
TEST COMMENT: 30- Weak blow died @ 10 min.

30- No return.

10- No blow , pulled tool.

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## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.55	108.59	Initial Hydro-static
2	20.95	108.08	Open To Flow (1)
33	22.71	109.09	Shut-In(1)
63	133.37	109.68	End Shut-In(1)
63	21.57	109.63	Open To Flow (2)
74	22.19	109.85	Shut-In(2)
75	2169.65	110.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100m	0.07

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 61573

**DST#: 2**

ATTN: Kevin Timson

Test Start: 2015.03.26 @ 13:56:00

## Tool Information

Drill Pipe:	Length: 4355.00 ft	Diameter: 3.80 inches	Volume: 61.09 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.50 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4358.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	123.50 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			4331.50	
Shut In Tool	5.00			4336.50	
Hydraulic tool	5.00			4341.50	
Jars	5.00			4346.50	
Safety Joint	2.50			4349.00	
Packer	5.00			4354.00	27.50 Bottom Of Top Packer
Packer	4.00			4358.00	
Stubb	1.00			4359.00	
Recorder	0.00	8357	Inside	4359.00	
Recorder	0.00	6751	Outside	4359.00	
Perforations	27.00			4386.00	
Change Over Sub	1.00			4387.00	
Drill Pipe	63.00			4450.00	
Change Over Sub	1.00			4451.00	
Bullnose	3.00			4454.00	96.00 Bottom Packers & Anchor

**Total Tool Length: 123.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 61573

**DST#: 2**

ATTN: Kevin Timson

Test Start: 2015.03.26 @ 13:56:00

## 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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100m	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

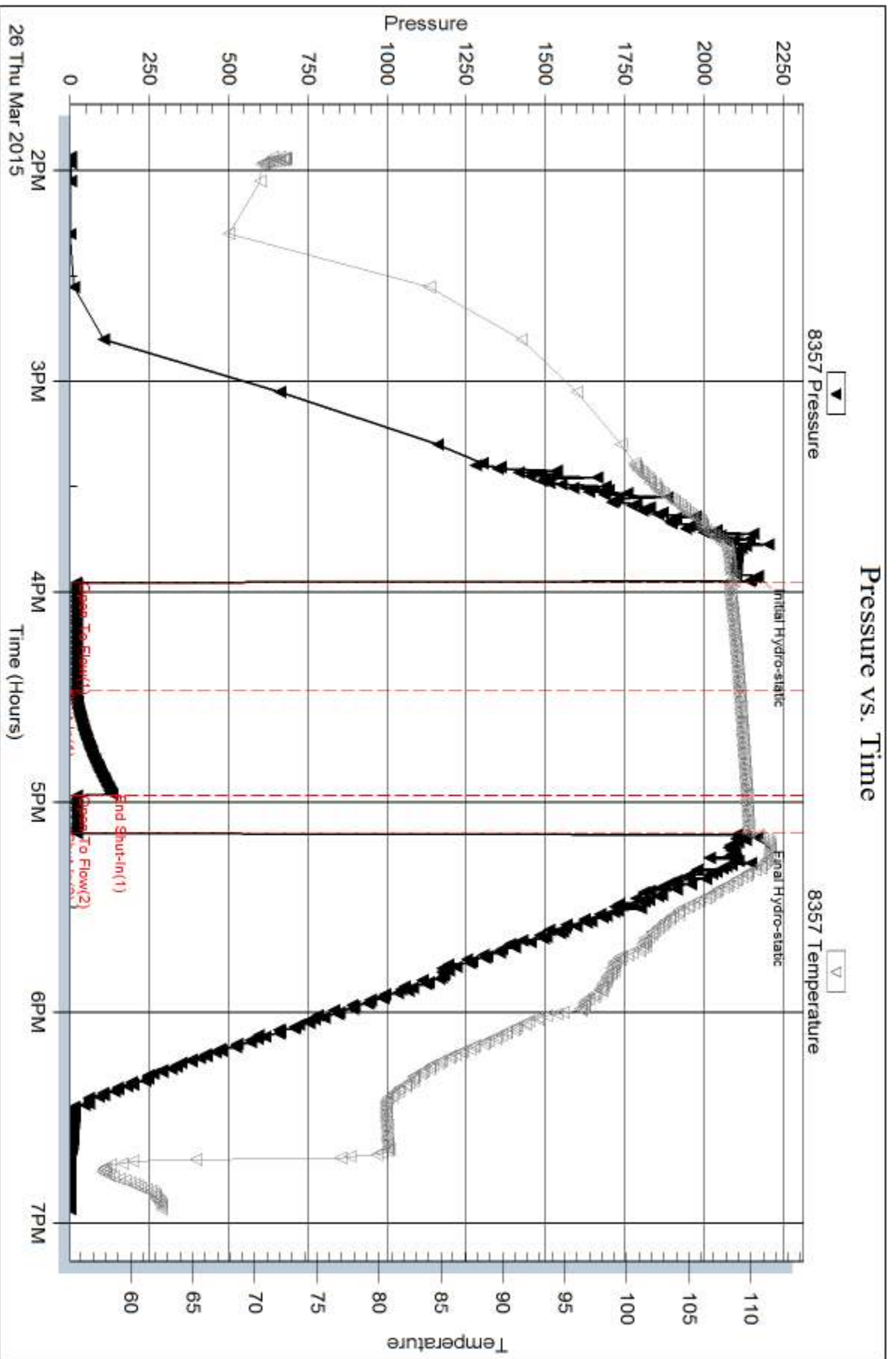
Num Gas Bombs: 0

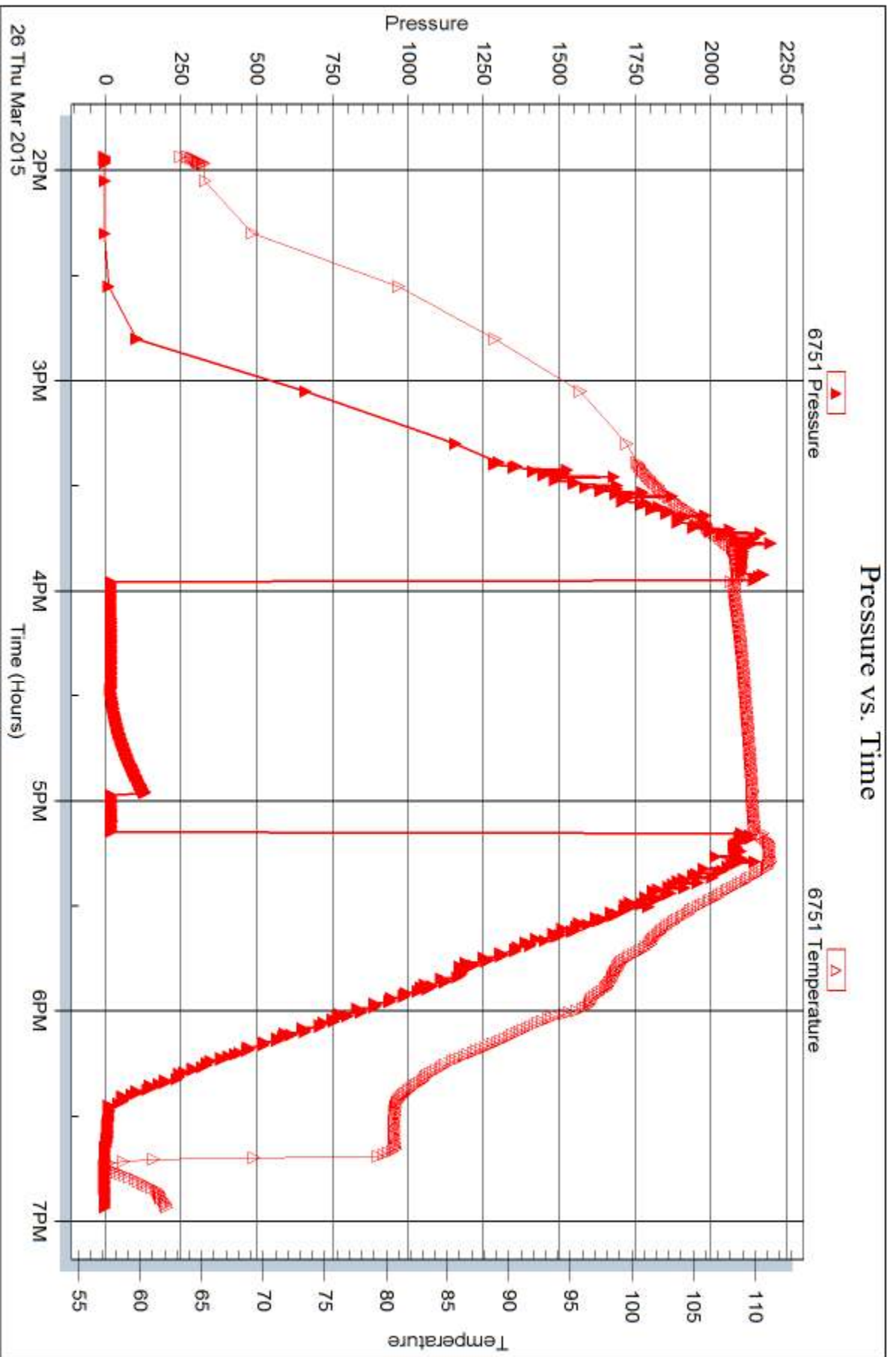
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **O'Brate-Finney #6-5**

### **S5-23s-32w Finney/KS**

Start Date: 2015.03.27 @ 02:28:00

End Date: 2015.03.27 @ 07:22:20

Job Ticket #: 61574                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 14:04:16



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 61574

**DST#: 3**

ATTN: Kevin Timson

Test Start: 2015.03.27 @ 02:28:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:17:10

Time Test Ended: 07:22:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 61

**Interval: 4443.00 ft (KB) To 4472.00 ft (KB) (TVD)**

Reference Elevations: 2872.00 ft (KB)

Total Depth: 4472.00 ft (KB) (TVD)

2861.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8357**

**Inside**

Press@RunDepth: 19.55 psig @ 4444.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.27

End Date:

2015.03.27

Last Calib.:

2015.03.27

Start Time:

02:28:02

End Time:

07:22:19

Time On Btm:

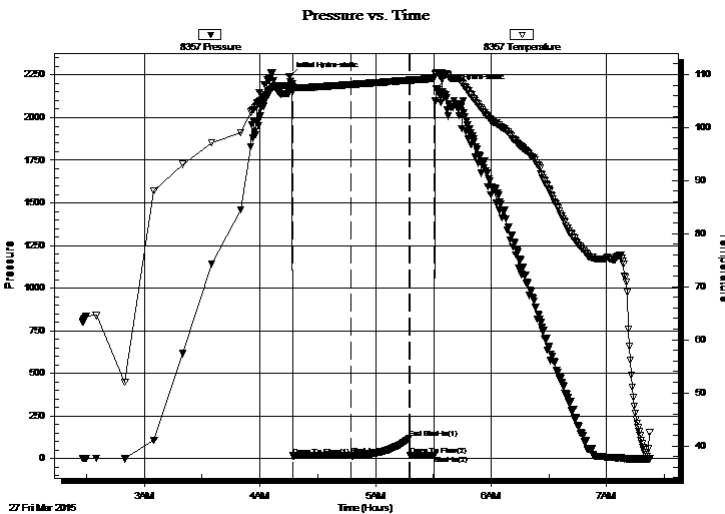
2015.03.27 @ 04:15:20

Time Off Btm:

2015.03.27 @ 05:31:40

**TEST COMMENT:** 30- 1/2" Blow receded to weak surface blow.  
30- No return.  
10- No blow, pulled tool.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.14	107.82	Initial Hydro-static
2	16.98	106.74	Open To Flow (1)
33	19.55	108.10	Shut-In(1)
63	120.21	108.92	End Shut-In(1)
63	18.76	108.90	Open To Flow (2)
75	19.71	109.23	Shut-In(2)
77	2170.90	110.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	M 100m	0.01

## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 61574

**DST#: 3**

ATTN: Kevin Timson

Test Start: 2015.03.27 @ 02:28:00

## Tool Information

Drill Pipe:	Length: 4420.00 ft	Diameter: 3.82 inches	Volume: 62.66 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.50 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4443.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	56.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4416.50	
Shut In Tool	5.00			4421.50	
Hydraulic tool	5.00			4426.50	
Jars	5.00			4431.50	
Safety Joint	2.50			4434.00	
Packer	5.00			4439.00	27.50 Bottom Of Top Packer
Packer	4.00			4443.00	
Stubb	1.00			4444.00	
Recorder	0.00	8357	Inside	4444.00	
Recorder	0.00	6751	Outside	4444.00	
Perforations	25.00			4469.00	
Bullnose	3.00			4472.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 56.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 61574      **DST#: 3**

ATTN: Kevin Timson

Test Start: 2015.03.27 @ 02:28:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 48.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M 100m	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

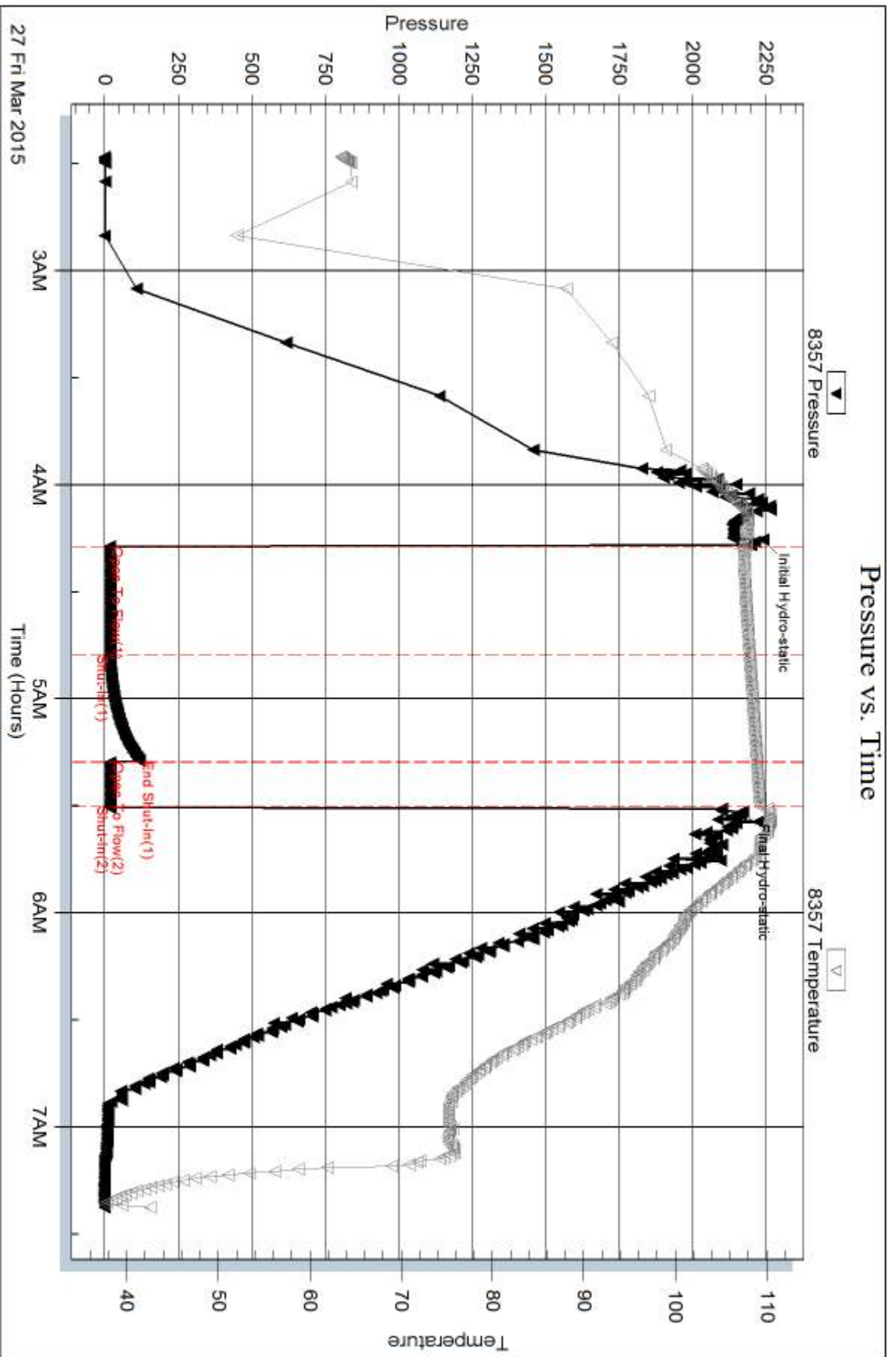
Num Gas Bombs: 0

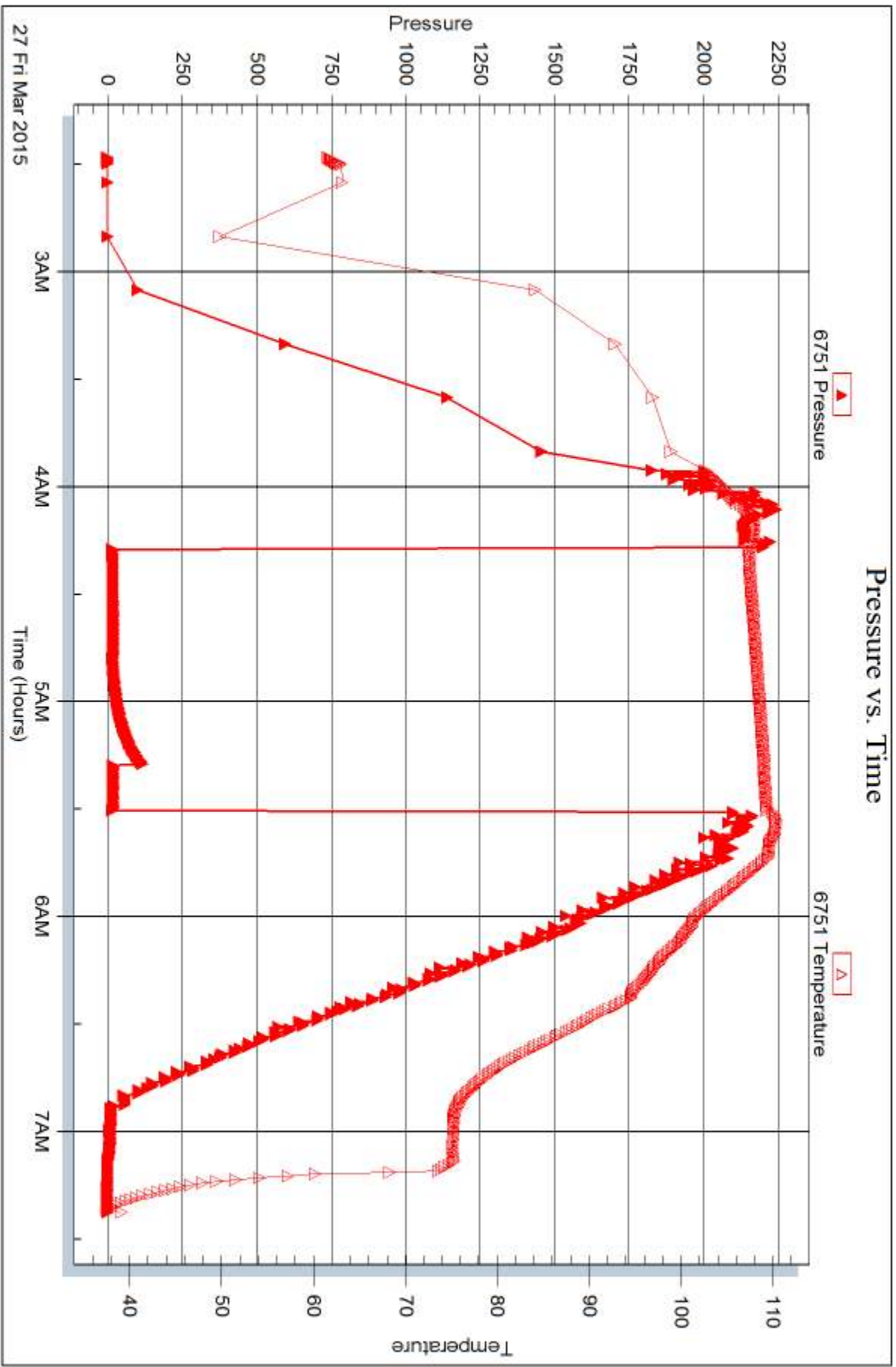
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **O'Brate-Finney #6-5**

### **S5-23s-32w Finney/KS**

Start Date: 2015.03.27 @ 16:10:00

End Date: 2015.03.27 @ 22:33:15

Job Ticket #: 58540                      DST #: 4

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 14:03:55

American Warrior, Inc.

S5-23s-32w Finney/KS

O'Brate-Finney #6-5

DST # 4

Cherokee

2015.03.27



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 58540

**DST#: 4**

ATTN: Kevin Timson

Test Start: 2015.03.27 @ 16:10:00

## GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:53:30

Time Test Ended: 22:33:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

**Interval: 4494.00 ft (KB) To 4528.00 ft (KB) (TVD)**

Reference Elevations: 2872.00 ft (KB)

Total Depth: 4528.00 ft (KB) (TVD)

2861.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 50.32 psig @ 4495.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.27

End Date:

2015.03.27

Last Calib.:

2015.03.27

Start Time: 16:10:15

End Time:

22:33:15

Time On Btm:

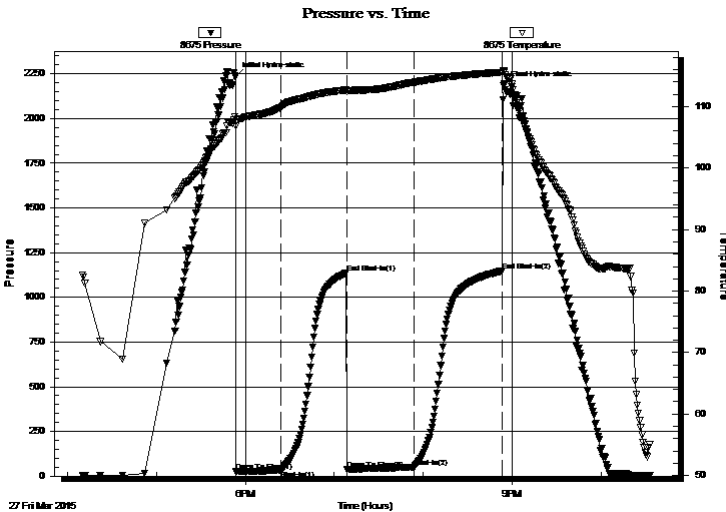
2015.03.27 @ 17:53:15

Time Off Btm:

2015.03.27 @ 20:54:15

**TEST COMMENT:** B.O.B. in 21 min.  
Bled off for 5 min, No return blow  
B.O.B. in 10 min.  
Bled off for 5 min, No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.60	108.40	Initial Hydro-static
1	24.50	106.84	Open To Flow (1)
31	33.82	109.83	Shut-In(1)
75	1136.92	112.70	End Shut-In(1)
76	37.45	112.41	Open To Flow (2)
121	50.32	113.94	Shut-In(2)
180	1146.97	115.56	End Shut-In(2)
181	2185.33	115.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	475 Feet Gas In Pipe	0.00
75.00	mcw og 5%M 5%W 30%O 60%G	1.06

## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 58540

**DST#: 4**

ATTN: Kevin Timson

Test Start: 2015.03.27 @ 16:10:00

## Tool Information

Drill Pipe:	Length: 4482.90 ft	Diameter: 3.82 inches	Volume: 63.55 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 82000.00 lb
			<u>Total Volume: 63.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.40 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4494.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.50 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			4467.50	
Shut In Tool	5.00			4472.50	
Hydraulic tool	5.00			4477.50	
Jars	5.00			4482.50	
Safety Joint	2.50			4485.00	
Packer	5.00			4490.00	27.50 Bottom Of Top Packer
Packer	4.00			4494.00	
Stubb	1.00			4495.00	
Recorder	0.00	8675	Inside	4495.00	
Recorder	0.00	8650	Outside	4495.00	
Perforations	30.00			4525.00	
Change Over Sub	0.00			4525.00	
Drill Pipe	0.00			4525.00	
Change Over Sub	0.00			4525.00	
Bullnose	3.00			4528.00	34.00 Bottom Packers & Anchor

**Total Tool Length: 61.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 58540      **DST#: 4**

ATTN: Kevin Timson

Test Start: 2015.03.27 @ 16:10:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 47.00 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: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

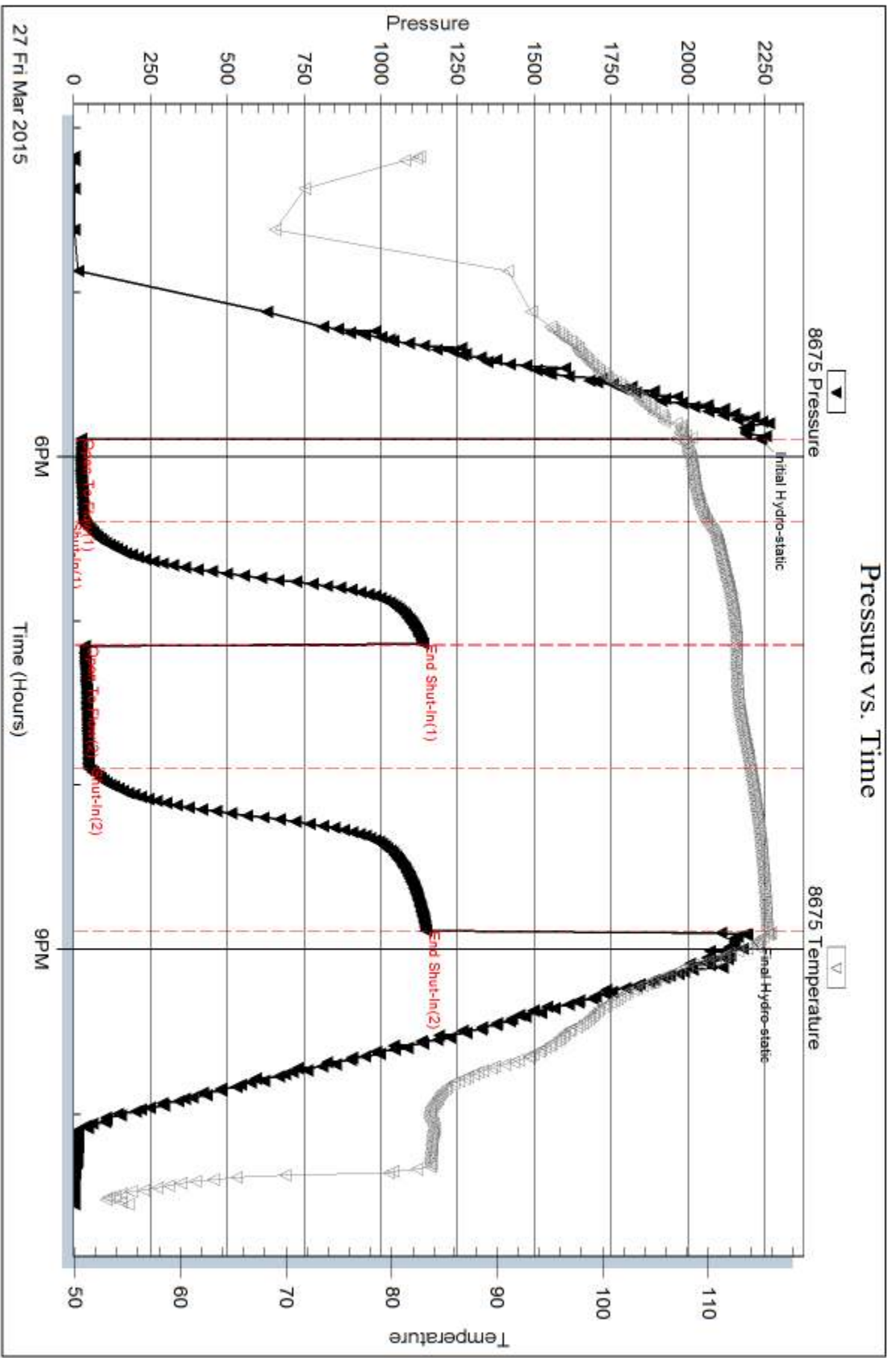
Length ft	Description	Volume bbl
0.00	475 Feet Gas In Pipe	0.000
75.00	mcw og 5%M 5%W 30%O 60%G	1.063

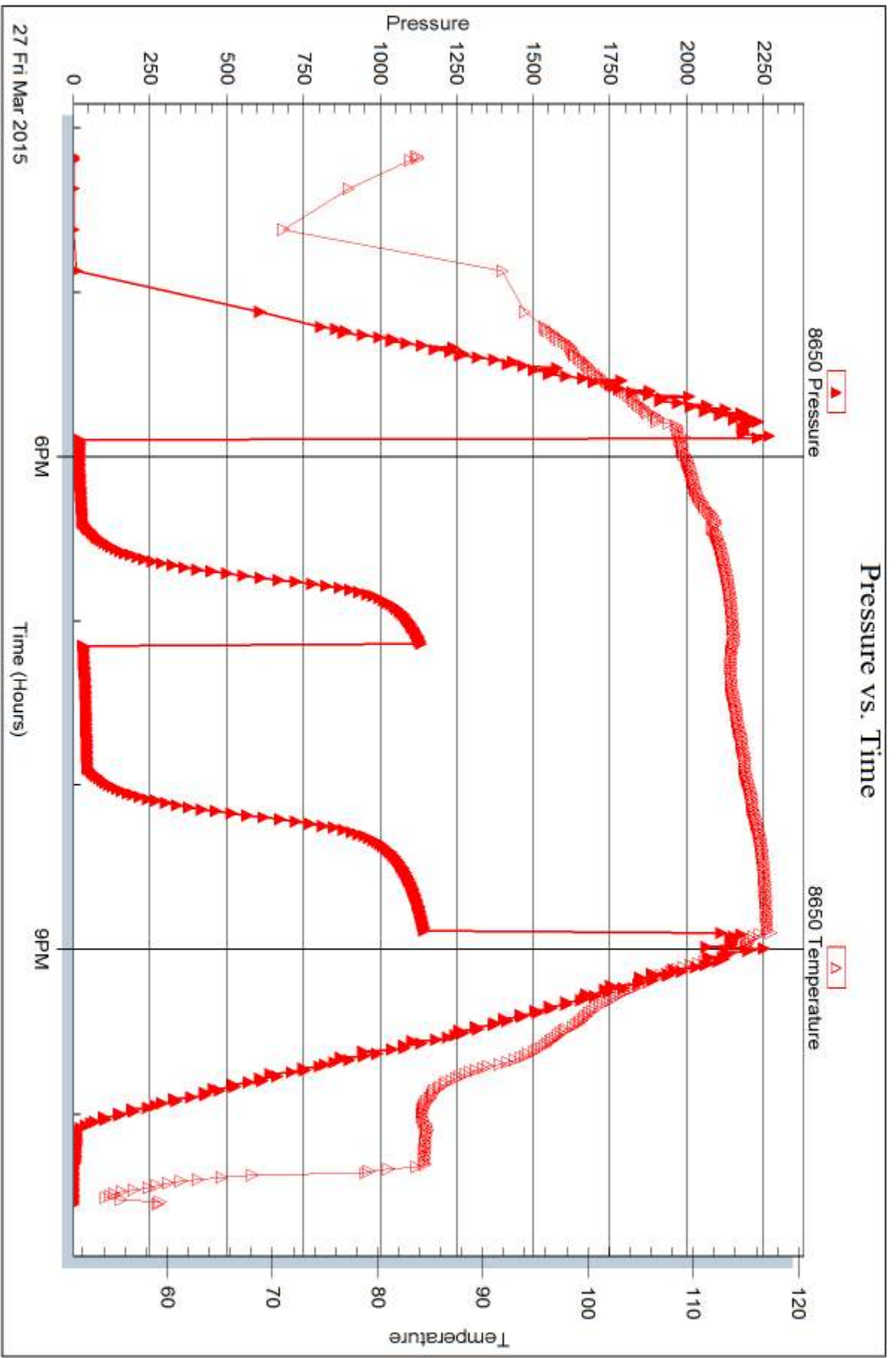
Total Length: 75.00 ft      Total Volume: 1.063 bbl

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 67846

ATTN: Kevin Timson

### **O'Brate-Finney #6-5**

### **S5-23s-32w Finney/KS**

Start Date: 2015.03.28 @ 16:48:00

End Date: 2015.03.28 @ 21:13:00

Job Ticket #: 58541                      DST #: 5

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 14:03:33



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 58541

**DST#: 5**

ATTN: Kevin Timson

Test Start: 2015.03.28 @ 16:48:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:22:45

Time Test Ended: 21:13:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: **4662.00 ft (KB) To 4707.00 ft (KB) (TVD)**

Reference Elevations: 2872.00 ft (KB)

Total Depth: 4707.00 ft (KB) (TVD)

2861.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8675** Inside

Press@RunDepth: 25.13 psig @ 4663.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.28

End Date: 2015.03.28

Last Calib.: 2015.03.28

Start Time: 16:48:15

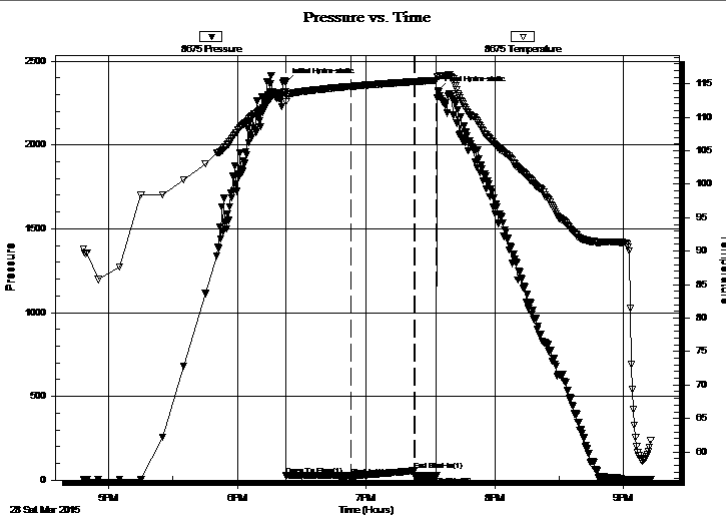
End Time: 21:13:00

Time On Btm: 2015.03.28 @ 18:22:30

Time Off Btm: 2015.03.28 @ 19:33:30

TEST COMMENT: Surface blow  
No return blow  
No blow  
Pulled

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2373.91	113.91	Initial Hydro-static
1	26.43	112.31	Open To Flow (1)
31	25.13	114.61	Shut-In(1)
60	55.97	115.33	End Shut-In(1)
61	24.23	115.31	Open To Flow (2)
71	24.97	115.54	Shut-In(2)
71	2324.98	116.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.07

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 58541

**DST#: 5**

ATTN: Kevin Timson

Test Start: 2015.03.28 @ 16:48:00

## Tool Information

Drill Pipe:	Length: 4641.73 ft	Diameter: 3.82 inches	Volume: 65.80 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 84000.00 lb
			<u>Total Volume: 65.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.23 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4662.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	72.50 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			4635.50	
Shut In Tool	5.00			4640.50	
Hydraulic tool	5.00			4645.50	
Jars	5.00			4650.50	
Safety Joint	2.50			4653.00	
Packer	5.00			4658.00	27.50 Bottom Of Top Packer
Packer	4.00			4662.00	
Stubb	1.00			4663.00	
Recorder	0.00	8675	Inside	4663.00	
Recorder	0.00	8650	Outside	4663.00	
Perforations	8.00			4671.00	
Change Over Sub	1.00			4672.00	
Drill Pipe	31.00			4703.00	
Change Over Sub	1.00			4704.00	
Bullnose	3.00			4707.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 72.50**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 58541

**DST#: 5**

ATTN: Kevin Timson

Test Start: 2015.03.28 @ 16:48:00

## 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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud	0.071

Total Length: 5.00 ft      Total Volume: 0.071 bbl

Num Fluid Samples: 0

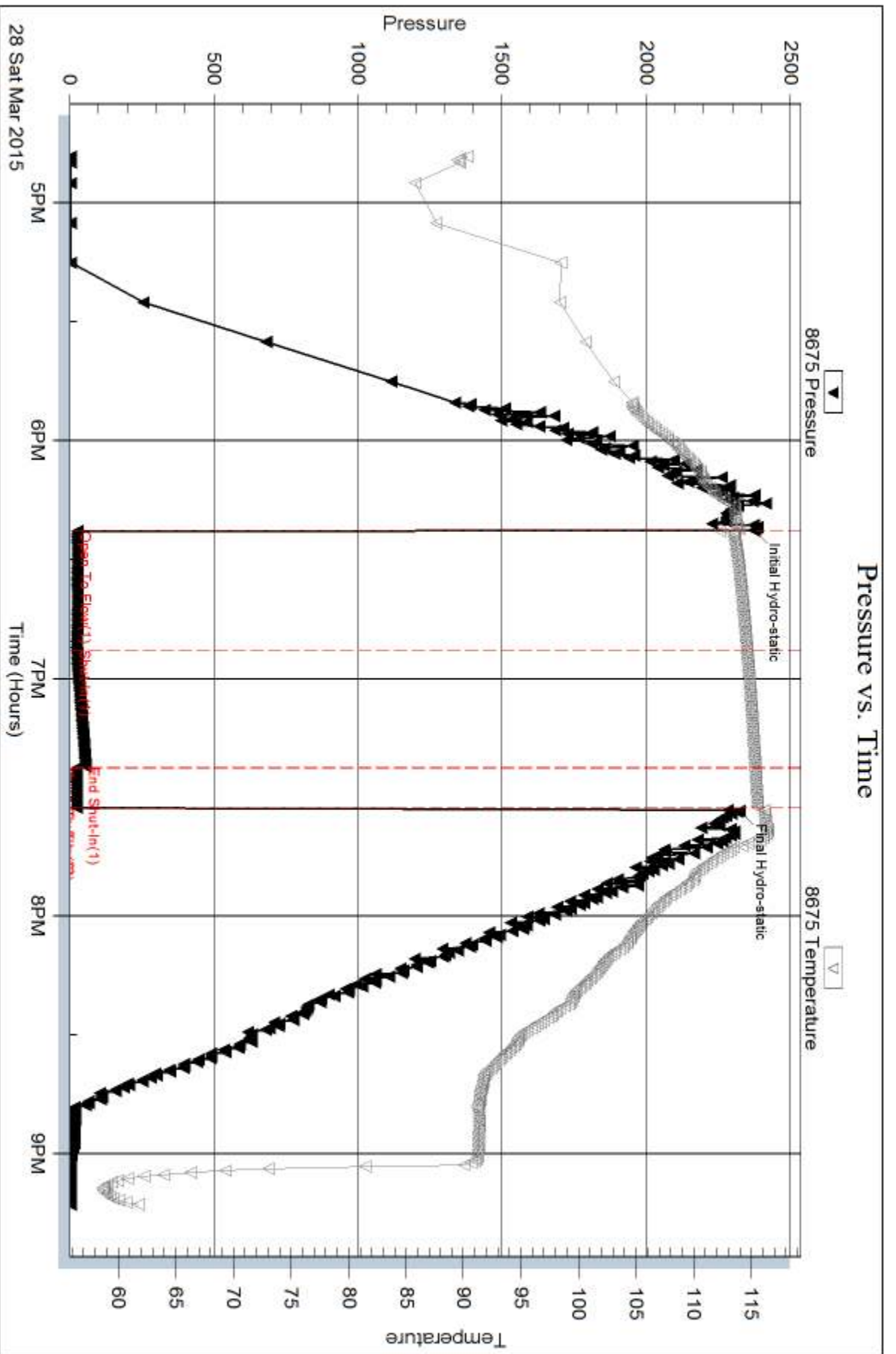
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

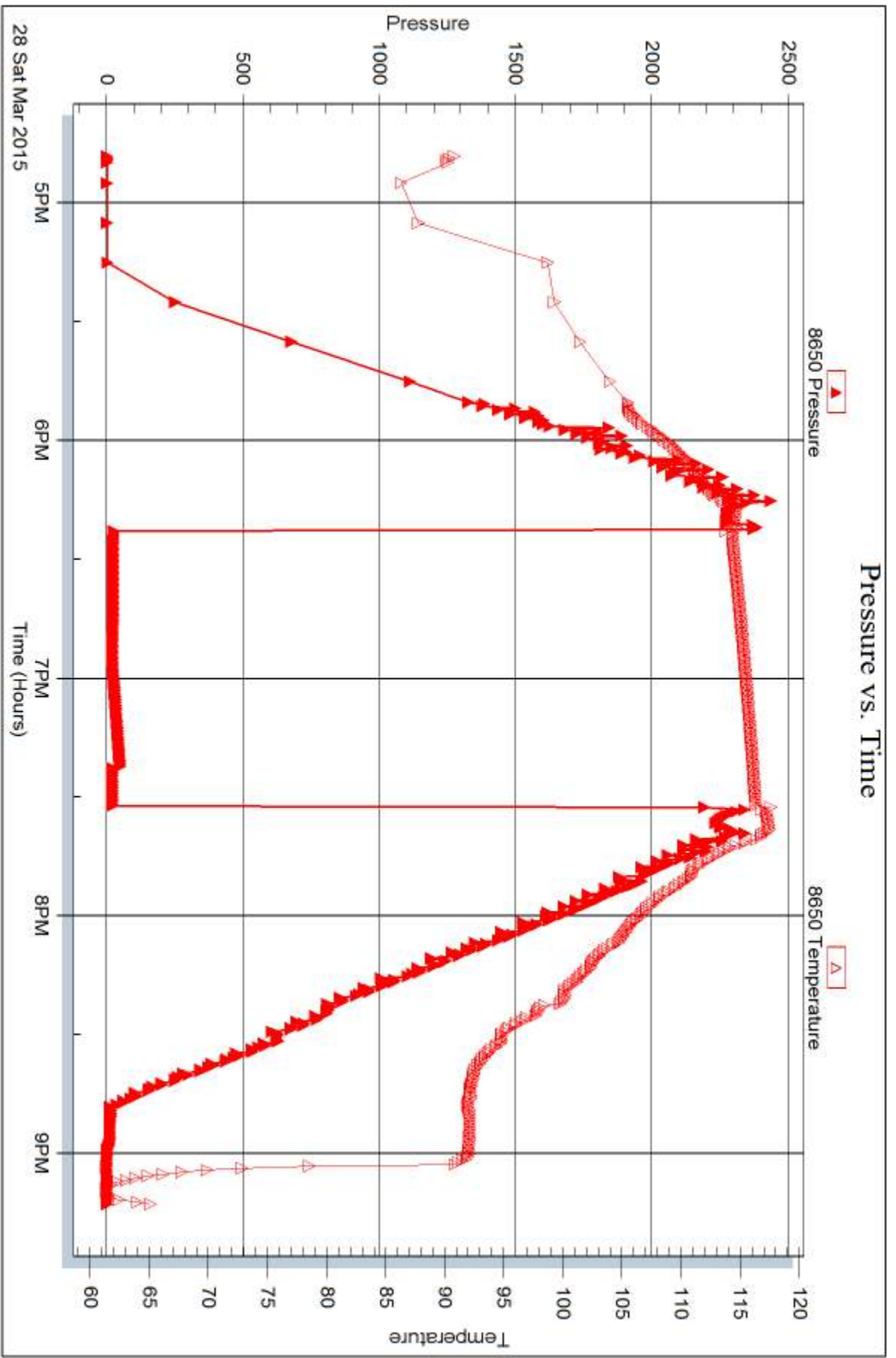


Serial #: 8650

Outside American Warrior, Inc.

OBrate-Finney #6-5

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 58541

Printed: 2015.03.31 @ 14:03:34



## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **O'Brate-Finney #6-5**

### **S5-23s-32w Finney/KS**

Start Date: 2015.03.29 @ 11:20:00

End Date: 2015.03.29 @ 17:44:45

Job Ticket #: 58542                      DST #: 6

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 14:02:00



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 58542

**DST#: 6**

ATTN: Kevin Timson

Test Start: 2015.03.29 @ 11:20:00

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:48:45

Time Test Ended: 17:44:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

**Interval: 4770.00 ft (KB) To 4800.00 ft (KB) (TVD)**

Reference Elevations: 2872.00 ft (KB)

Total Depth: 4800.00 ft (KB) (TVD)

2861.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8675** **Inside**

Press@RunDepth: 39.28 psig @ 4771.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.29 End Date: 2015.03.29

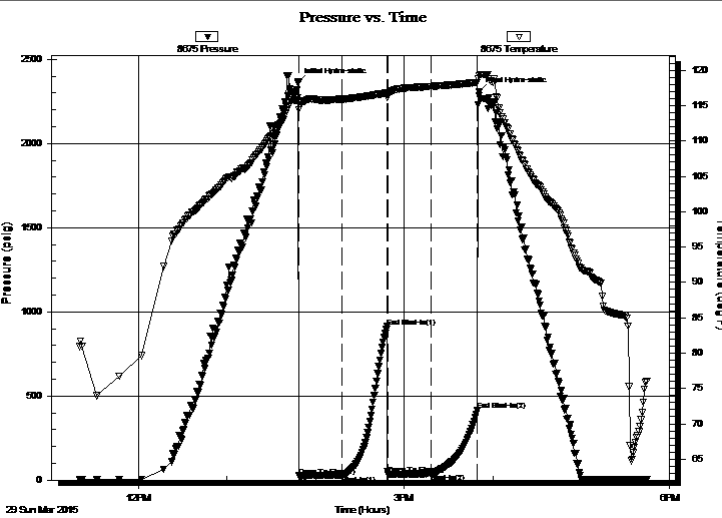
Last Calib.: 2015.03.29

Start Time: 11:20:15 End Time: 17:44:45

Time On Btm: 2015.03.29 @ 13:48:15

Time Off Btm: 2015.03.29 @ 15:50:45

**TEST COMMENT:** Built to 2 1/2" blow  
Bled off for 2 min, No return blow  
Built to 8" blow  
Bled off for 2 min, No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2360.71	116.14	Initial Hydro-static
1	24.49	114.47	Open To Flow (1)
30	30.21	115.93	Shut-In(1)
61	911.63	116.79	End Shut-In(1)
61	33.59	116.52	Open To Flow (2)
91	39.28	117.72	Shut-In(2)
122	413.07	118.30	End Shut-In(2)
123	2305.97	119.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	140 Feet Gas In Pipe	0.00
45.00	ocm 5%O 95%M	0.64

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 58542

**DST#: 6**

ATTN: Kevin Timson

Test Start: 2015.03.29 @ 11:20:00

## Tool Information

Drill Pipe:	Length: 4767.46 ft	Diameter: 3.82 inches	Volume: 67.58 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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:	96000.00 lb
			<u>Total Volume: 67.58 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.96 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4770.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	57.50 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			4743.50	
Shut In Tool	5.00			4748.50	
Hydraulic tool	5.00			4753.50	
Jars	5.00			4758.50	
Safety Joint	2.50			4761.00	
Packer	5.00			4766.00	27.50 Bottom Of Top Packer
Packer	4.00			4770.00	
Stubb	1.00			4771.00	
Recorder	0.00	8675	Inside	4771.00	
Recorder	0.00	8650	Outside	4771.00	
Perforations	26.00			4797.00	
Change Over Sub	0.00			4797.00	
Drill Pipe	0.00			4797.00	
Change Over Sub	0.00			4797.00	
Bullnose	3.00			4800.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 57.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**S5-23s-32w Finney/KS**

PO Box 399  
Garden City, KS 67846

**O'Brate-Finney #6-5**

Job Ticket: 58542      **DST#: 6**

ATTN: Kevin Timson

Test Start: 2015.03.29 @ 11:20:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 46.00 sec/qt  
Water Loss: 8.79 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2400.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	140 Feet Gas In Pipe	0.000
45.00	ocm 5%O 95%M	0.638

Total Length: 45.00 ft      Total Volume: 0.638 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



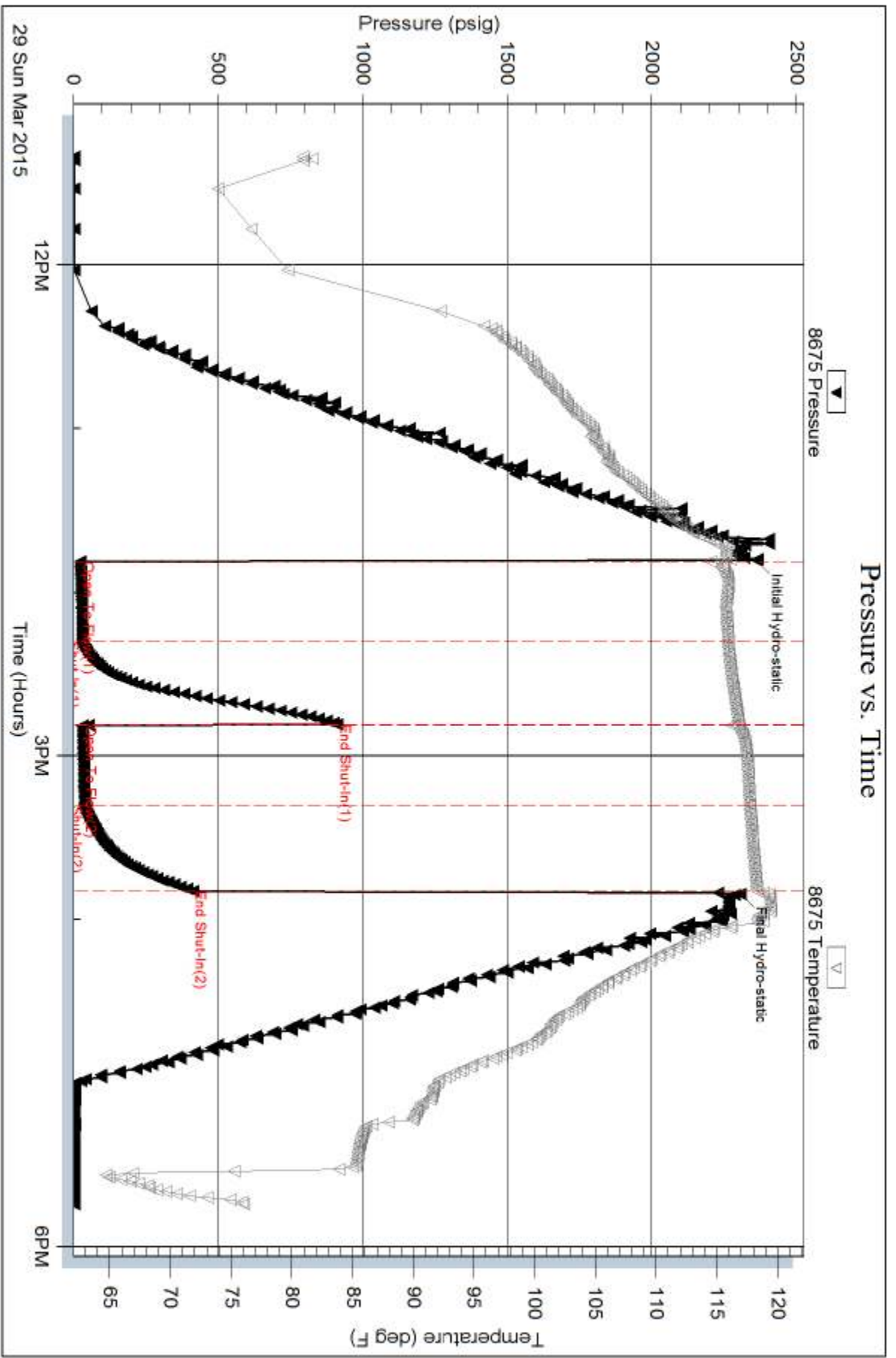
Serial #: 8675

Inside

American Warrior, Inc.

O'Brate-Finney #6-5

DST Test Number: 6

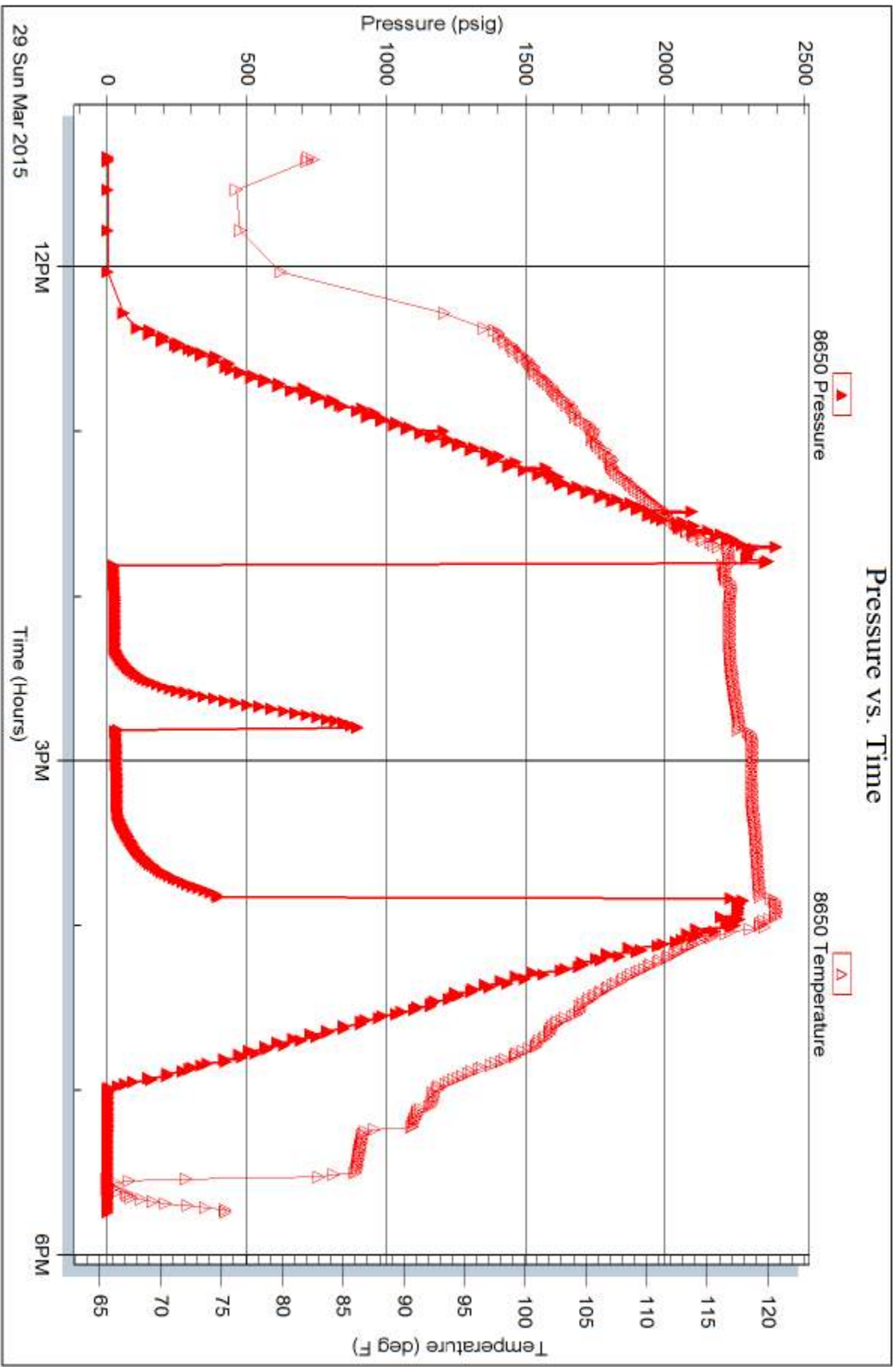


Serial #: 8650

Outside American Warrior, Inc.

O'Brate-Finney #6-5

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 58542

Printed: 2015.03.31 @ 14:02:02



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61572

Well Name & No. O'Brate - Finney #6-5 Test No. 1 Date 3-25-15  
 Company American Warrior, Inc. Elevation 2822 KB 2861 GL  
 Address POB 399 Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke #10  
 Location: Sec. 5 Twp. 23s Rge. 32w Co. Finney State KS

Interval Tested 4280 - 4322 Zone Tested Lansing 1'  
 Anchor Length 42 Drill Pipe Run 4260 Mud Wt. 9.3  
 Top Packer Depth 4276 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 4280 Wt. Pipe Run 0 WL 8.4  
 Total Depth 4322 Chlorides 1050 ppm System LCM 1 1/2"

Blow Description B.O.B. @ 3min.  
No return.  
B.O.B. @ 4min.  
No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>468</u>	<u>OS MW</u>		<u>55</u>	<u>45</u>	
<u>1222</u>	<u>Δ MW</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1690 BHT 118 Gravity — API RW .152 @ 46° F Chlorides 79000 ppm

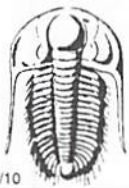
(A) Initial Hydrostatic 2096  Test 1150 T-On Location 17:00  
 (B) First Initial Flow 61  Jars 250 T-Started 17:34  
 (C) First Final Flow 484  Safety Joint 75 T-Open 19:51  
 (D) Initial Shut-In 1255  Circ Sub NIC T-Pulled 22:22  
 (E) Second Initial Flow 483  Hourly Standby \_\_\_\_\_ T-Out 00:43  
 (F) Second Final Flow 785  Mileage 72 RT 70° Comments \_\_\_\_\_  
 (G) Final Shut-In 1253  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2044  Straddle \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Packer \_\_\_\_\_  
 Final Shut-In 45  Extra Recorder \_\_\_\_\_  
 Sub Total 0  
 Total 1545  
 Sub Total 1545  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Chuck Amiel

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **61573**

Well Name & No. O'Brate-Finney #6-5 Test No. 2 Date 3-26-15  
 Company American Warrior, Inc. Elevation 2872 KB 2861 GL  
 Address POB 399 Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke #10  
 Location: Sec. 5 Twp. 23 Rge. 32 Co. Finney State KS

Interval Tested 4358-4454 Zone Tested Marmaton  
 Anchor Length 96 Drill Pipe Run 4355 Mud Wt. 9.4  
 Top Packer Depth 4354 Drill Collars Run 0 Vis 46  
 Bottom Packer Depth 4358 Wt. Pipe Run 0 WL 7.65'  
 Total Depth 4454 Chlorides 2400 ppm System LCM 1 1/2"

Blow Description Weak blow died @ 10 min  
No return.  
No blow, pulled tool.  
N/A

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>M</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 109 Gravity - API RW @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2172  Test 1150 T-On Location 13:53  
 (B) First Initial Flow 21  Jars 250 T-Started 13:56  
 (C) First Final Flow 23  Safety Joint 75 T-Open 15:57  
 (D) Initial Shut-In 133  Circ Sub N/A T-Pulled 17:09  
 (E) Second Initial Flow 22  Hourly Standby \_\_\_\_\_ T-Out 18:56  
 (F) Second Final Flow 22  Mileage 70 RT 70 Comments \_\_\_\_\_  
 (G) Final Shut-In N/A  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2169  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 10  Day Standby \_\_\_\_\_ Total 1545  
 Final Shut-In N/A  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1545

Approved By \_\_\_\_\_ Our Representative Chuck Smith

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61574

Well Name & No. O'Brate-Finney #6-5 Test No. 3 Date 3-27-15  
 Company American Warrior, Inc Elevation 2872 KB 2861 GL  
 Address POB 399 Garden City, Ks 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke #10  
 Location: Sec. 5 Twp. 23s Rge. 32w Co. Finney State Ks

Interval Tested 4443-4472 Zone Tested Pawnee  
 Anchor Length 29 Drill Pipe Run 4420 Mud Wt. 9.5  
 Top Packer Depth 4439 Drill Collars Run 0 Vis 48  
 Bottom Packer Depth 4443 Wt. Pipe Run 0 WL 7.6  
 Total Depth 4472 Chlorides 2400 ppm System LCM 1 1/2"  
 Blow Description 1/2" Blow receded to a weak surface blow.  
No return.  
No blow, pulled tool.  
N/A

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>M</u>				<u>100</u>
Rec	Feet of				
Rec	Feet of				
Rec	Feet of				

Rec Total 1 BHT 109 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2241</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2:28</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2:28</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u> <u>ATC</u>	T-Open <u>4:17</u>
(D) Initial Shut-In <u>120</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>5:30</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>7:22</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>70</u>	Comments
(G) Final Shut-In <u>N/A</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2171</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>10</u>	<input type="checkbox"/> Day Standby	Total <u>1545</u>
Final Shut-In <u>N/A</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1545</u>	

Approved By \_\_\_\_\_ Our Representative Chuck Smith

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

2:30 am



# TRILOBITE TESTING INC.

Hays, KS 67601  
Phone: (785) 625-4778  
Scott City, KS 67871  
Pratt, KS 67124  
Hugoton, KS 67951

24 Hour Toll Free 800-728-5369  
Hays, FAX# (785) 625-5620 2:28

W.O.T. since 1:45 am

## DRILL STEM TESTING DATA

Took me all of 3 min.  
To change anchor length  
from DST #2, Rig delayed  
3 after I let  
them know I  
was ready.

Co. Name A.W.I.

Lease O'Brate-Finney # 6-5

DST No. 3

Sec. 5 Twp. 23

Rge. 32

Elevation \_\_\_\_\_ Formation Lawnee

Test Interval 4443 to 4472

Anchor Length 29

9.5 48

## TEST TIMES

If Blow Dies	<u>30</u>	<u>30</u>	<u>10</u>	<u>60</u>
Weak Blow	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>
Fair Blow	<u>45</u>	<u>45</u>	<u>45</u>	<u>45</u>
Strong Blow	<u>30</u>	<u>45</u>	<u>45</u>	<u>60</u>

4:18 open 61R

## EQUIPMENT

Electronic Recorder  Sample Chamber  Dual Packers  Safety Jt.  Jars

## GEOLOGIST

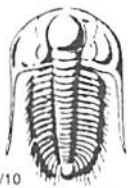
Name Kevin Timson Phone # \_\_\_\_\_

Motel \_\_\_\_\_ Rm. No. \_\_\_\_\_

## REMARKS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58540

Well Name & No. O'Brate-Finney #6-5 Test No. 4 Date 3/27/15  
 Company American Warrior, Inc Elevation 2872 KB 2861 GL  
 Address PO Box 399, Garden City, KS 67846  
 Co. Rep / Geo. Luke Thomson Rig Duke 10  
 Location: Sec. 5 Twp. 23s Rge. 32w Co. Finney State KS

Interval Tested 4494 - 4528 Zone Tested Cherokee  
 Anchor Length 34 Drill Pipe Run 4482.90 Mud Wt. 9.3  
 Top Packer Depth 4490 Drill Collars Run \_\_\_\_\_ Vis 47  
 Bottom Packer Depth 4494 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4528 Chlorides 2,800 ppm System LCM 1.5

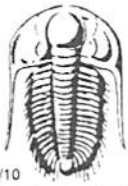
Blow Description B.O.B. in 21 mins  
Bled off for 5 mins. No return below  
B.O.B. in 10 mins

Bled off for 5 mins. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>475 feet Gas In pipe</u>				
<u>75</u>	<u>MCWOG</u>	<u>60%</u>	<u>30</u>	<u>5</u>	<u>5</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 75 BHT 115 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2,234  Test 1150 T-On Location 15:45  
 (B) First Initial Flow 25  Jars 250 T-Started 16:10  
 (C) First Final Flow 34  Safety Joint 75 T-Open 17:55  
 (D) Initial Shut-In 1,137  Circ Sub N/C T-Pulled 20:55  
 (E) Second Initial Flow 37  Hourly Standby \_\_\_\_\_ T-Out 22:33  
 (F) Second Final Flow 50  Mileage 64 70 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,147  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,185  Straddle \_\_\_\_\_  
 Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Shale Packer \_\_\_\_\_  
 Final Flow 45  Extra Packer \_\_\_\_\_  
 Final Shut-In 60  Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1545 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58541

4/10

Well Name & No. O'Brate-Finney #6-5 Test No. 5 Date 3/28/15  
 Company American Warrior, Inc Elevation 2872 KB 2861 GL  
 Address PO Box 399, Garden City KS, 67846  
 Co. Rep / Geo. Luke Thomson Rig Duke 10  
 Location: Sec. 5 Twp. 23S Rge. 32W Co. Finney State KS

Interval Tested 4662-4707 Zone Tested Marrow  
 Anchor Length 45 Drill Pipe Run 4641.73 Mud Wt. 9.4  
 Top Packer Depth 4658 Drill Collars Run \_\_\_\_\_ Vis 49  
 Bottom Packer Depth 4662 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4707 Chlorides 2,700 ppm System LCM 1.5

Blow Description Surface below  
No return below  
No below  
Pulled

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 115 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2,374  Test 1150 Misrun?  
 (B) First Initial Flow 26  Jars 250  
 (C) First Final Flow 25  Safety Joint 75  
 (D) Initial Shut-In 56  Circ Sub n/c  
 (E) Second Initial Flow 24  Hourly Standby \_\_\_\_\_  
 (F) Second Final Flow 25  Mileage 64 RT 70  
 (G) Final Shut-In Pulled  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,325  Straddle \_\_\_\_\_

T-On Location 16:30  
 T-Started 16:48  
 T-Open 18:23  
 T-Pulled 19:33  
 T-Out 21:13

Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1545  
 MP/DST Disc't \_\_\_\_\_

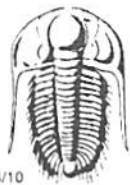
Initial Open 30  
 Initial Shut-In 30  
 Final Flow 10  
 Final Shut-In pull

Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1545

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58542

Well Name & No. O'Brate - Finney #6-5 Test No. 6 Date 3/29/15  
 Company American Warrior, Inc Elevation 2872 KB 2861 GL  
 Address PO Box 399, Garden City KS, 67846  
 Co. Rep / Geo. Luke Thompson Rig Duke 10  
 Location: Sec. 5 Twp. 23s Rge. 32w Co. Finney State KS

Interval Tested 4770-4800 Zone Tested Miss  
 Anchor Length 30 Drill Pipe Run 4767.46 Mud Wt. 9.4  
 Top Packer Depth 4766 Drill Collars Run \_\_\_\_\_ Vis 46  
 Bottom Packer Depth 4770 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4800 Chlorides 2,400 ppm System LCM 1.05

Blow Description Built to 2 1/2" below  
Bled off for 2 min. No return below  
Built to 8" below

Bled off for 2 min. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>140 Feet Gas In Pipe</u>				
<u>45</u>	<u>OCM</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 118 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic	<u>2,361</u>
(B) First Initial Flow	<u>24</u>
(C) First Final Flow	<u>30</u>
(D) Initial Shut-In	<u>912</u>
(E) Second Initial Flow	<u>34</u>
(F) Second Final Flow	<u>39</u>
(G) Final Shut-In	<u>413</u>
(H) Final Hydrostatic	<u>2,306</u>

- Test 1150
- Jars 250
- Safety Joint 75
- Circ Sub N/C
- Hourly Standby \_\_\_\_\_
- Mileage 64 RT 70
- Sampler \_\_\_\_\_
- Straddle \_\_\_\_\_
- Shale Packer \_\_\_\_\_
- Extra Packer \_\_\_\_\_
- Extra Recorder \_\_\_\_\_
- Day Standby \_\_\_\_\_
- Accessibility \_\_\_\_\_
- Sub Total 1545

T-On Location 09:50  
 T-Started 11:20  
 T-Open 13:49  
 T-Pulled 15:49  
 T-Out 17:44

Comments \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1545  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Approved By \_\_\_\_\_ Our Representative [Signature]

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