



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1207420  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1207420

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Irsik - Finney 1-23
Doc ID	1207420

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Irsik - Finney 1-23
Doc ID	1207420

Tops

Name	Top	Datum
Anhy	1950'	+933
B/Anhy	2018'	+865
Heebner	4024'	-1141
Lansing	4079'	-1196
B/KC	4566'	-1683
Matmaton	4586'	-1702
Ft.Scott	4687'	-1804
Cherokee	4701'	-1818
Morrow	4857'	-1974
Mississippian	4881'	-1998



## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Irsik - Finney #1-23**

#### **23-24s-31w Finney,KS**

Start Date: 2014.05.12 @ 10:53:00

End Date: 2014.05.12 @ 16:29:09

Job Ticket #: 57685                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.15 @ 14:22:36



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**23-24s-31w Finney, KS**

PO Box 399  
Garden City, KS 67846

**Irsik - Finney #1-23**

Job Ticket: 57685

**DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.05.12 @ 10:53:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:36:20

Time Test Ended: 16:29:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

**Interval: 4847.00 ft (KB) To 4886.00 ft (KB) (TVD)**

Reference Elevations: 2883.00 ft (KB)

Total Depth: 4886.00 ft (KB) (TVD)

2872.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8357 Inside**

Press@RunDepth: psig @ 4849.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.12

End Date:

2014.05.12

Last Calib.:

2014.05.12

Start Time: 10:53:02

End Time:

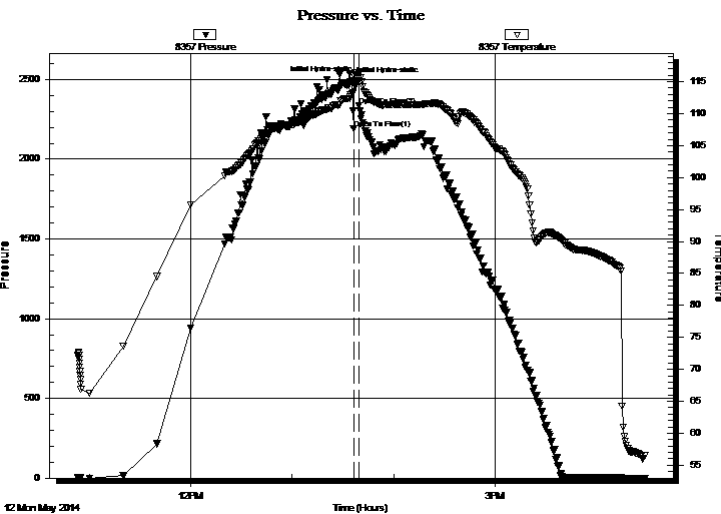
16:29:10

Time On Btm:

2014.05.12 @ 13:34:20

Time Off Btm:

TEST COMMENT: Packer seat failed twice, pulled tool.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2486.14	112.65	Initial Hydro-static
2	2192.01	114.85	Open To Flow (1)
6	2496.02	116.42	Initial Hydro-static
6	2337.50	116.33	Open To Flow (2)

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	M 100m	3.51

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**23-24s-31w Finney, KS**

PO Box 399  
Garden City, KS 67846

**Irsik - Finney #1-23**

ATTN: Kevin Timson

Job Ticket: 57685 **DST#: 1**

Test Start: 2014.05.12 @ 10:53:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:36:20

Time Test Ended: 16:29:09

Interval: **4847.00 ft (KB) To 4886.00 ft (KB) (TVD)**

Total Depth: 4886.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

Reference Elevations: 2883.00 ft (KB)

2872.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8645** **Outside**

Press@RunDepth: psig @ 4849.00 ft (KB)

Start Date: 2014.05.12 End Date: 2014.05.12

Start Time: 10:53:27 End Time: 16:28:25

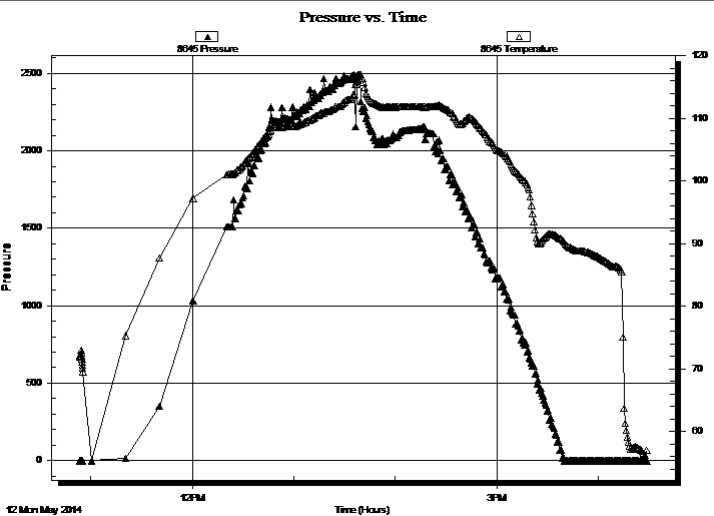
Capacity: 8000.00 psig

Last Calib.: 2014.05.12

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer seat failed twice, pulled tool.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	M 100m	3.51

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**23-24s-31w Finney, KS**

PO Box 399  
Garden City, KS 67846

**Irsik - Finney #1-23**

Job Ticket: 57685

**DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.05.12 @ 10:53:00

## Tool Information

Drill Pipe:	Length: 4836.00 ft	Diameter: 3.80 inches	Volume: 67.84 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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: 74000.00 lb
			<u>Total Volume: 67.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.50 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4847.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	66.50 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			4820.50	
Shut In Tool	5.00			4825.50	
Hydraulic tool	5.00			4830.50	
Jars	5.00			4835.50	
Safety Joint	2.50			4838.00	
Packer	5.00			4843.00	27.50 Bottom Of Top Packer
Packer	4.00			4847.00	
Stubb	1.00			4848.00	
Perforations	1.00			4849.00	
Recorder	0.00	8357	Inside	4849.00	
Recorder	0.00	8645	Outside	4849.00	
Perforations	2.00			4851.00	
Change Over Sub	1.00			4852.00	
Drill Pipe	30.00			4882.00	
Change Over Sub	1.00			4883.00	
Bullnose	3.00			4886.00	39.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>66.50</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**23-24s-31w Finney, KS**

PO Box 399  
Garden City, KS 67846

**Irsik - Finney #1-23**

Job Ticket: 57685

**DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.05.12 @ 10:53:00

## 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:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	M 100m	3.507

Total Length: 250.00 ft      Total Volume: 3.507 bbl

Num Fluid Samples: 0

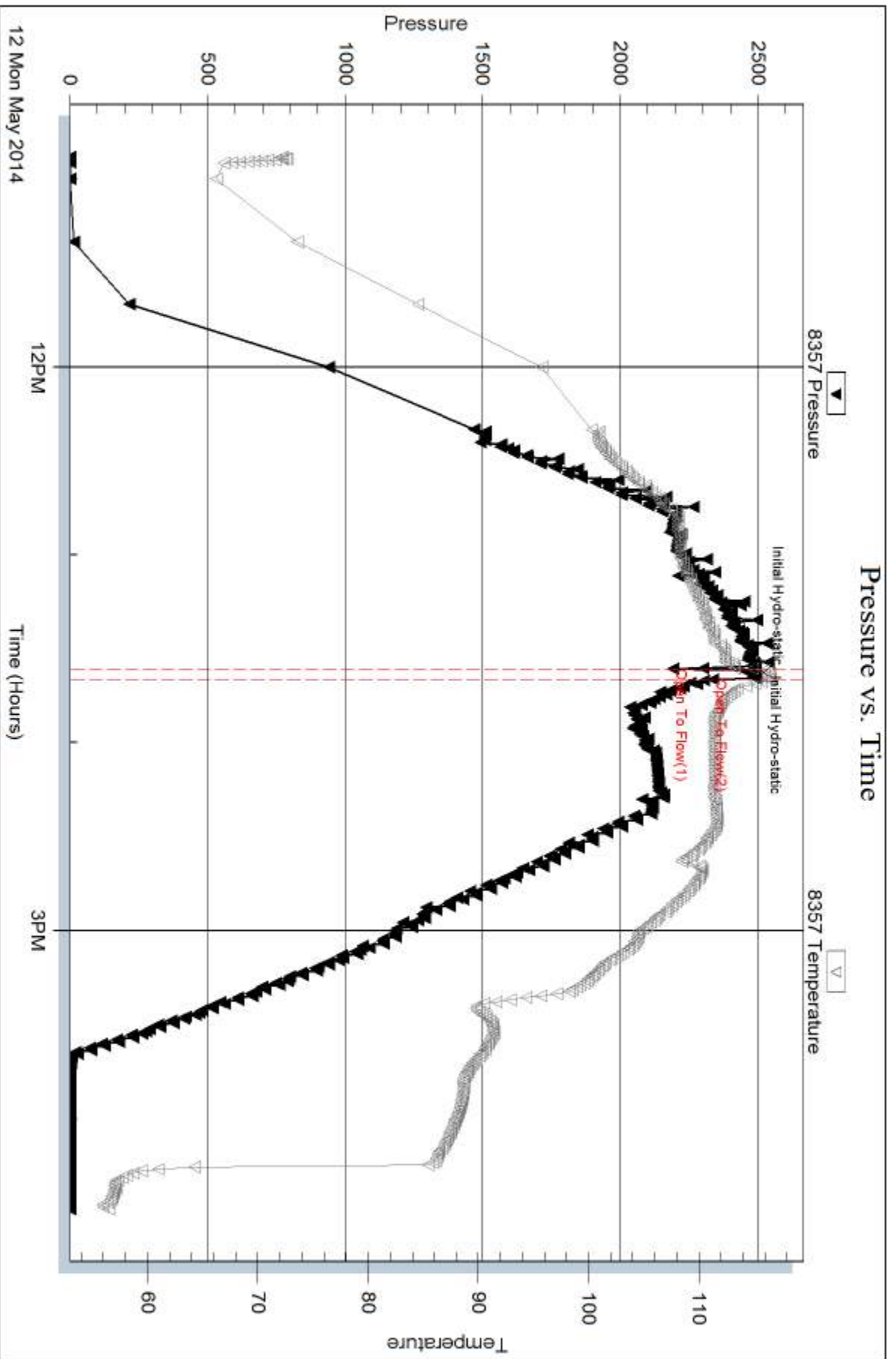
Num Gas Bombs: 0

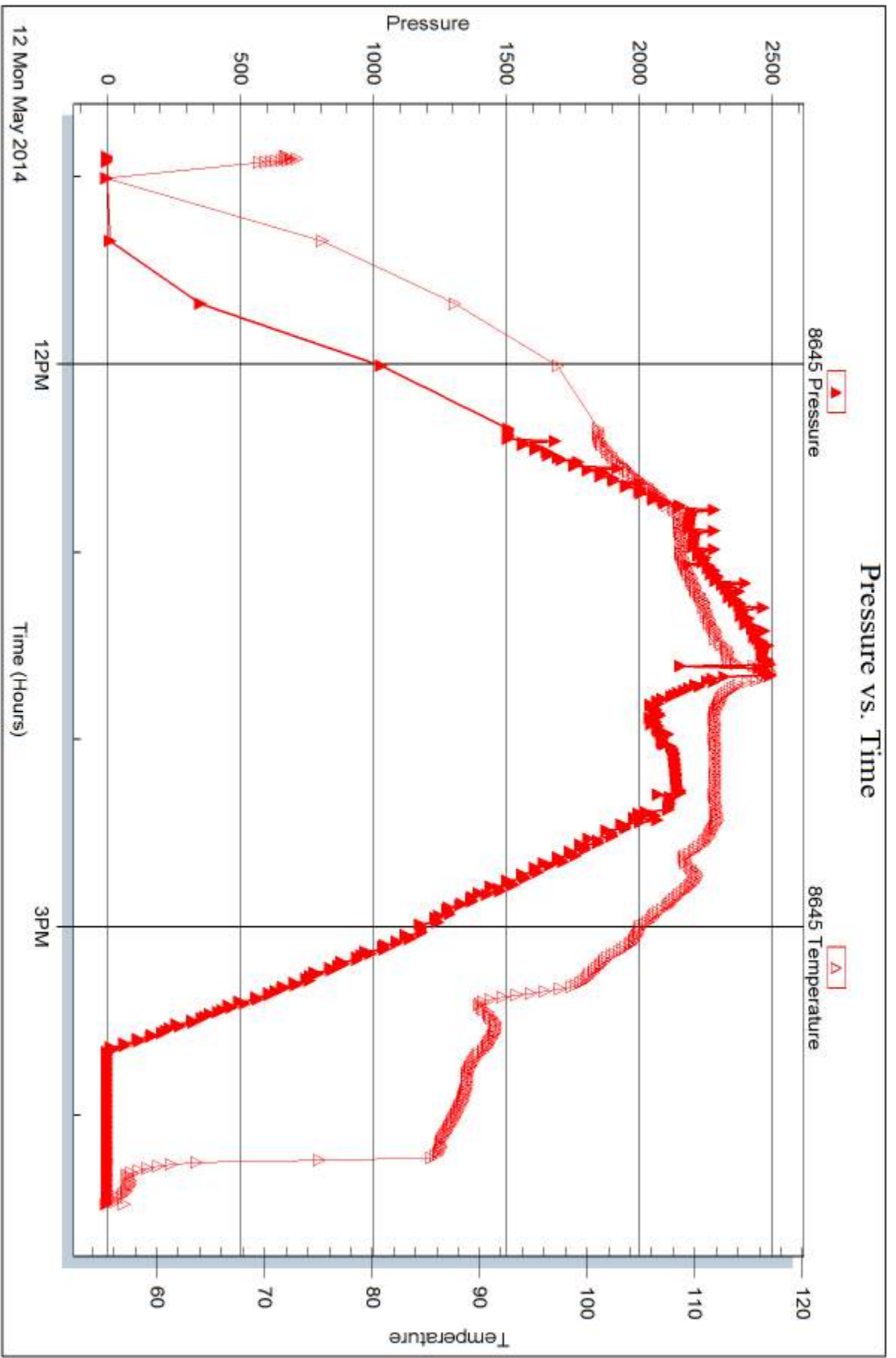
Serial #:

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

### **Irsik - Finney #1-23**

#### **23-24s-31w Finney,KS**

Start Date: 2014.05.13 @ 17:27:00

End Date: 2014.05.13 @ 23:09:00

Job Ticket #: 57686                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.15 @ 14:22:11



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**23-24s-31w Finney, KS**

PO Box 399  
Garden City, KS 67846

**Irsik - Finney #1-23**

Job Ticket: 57686

**DST#: 2**

ATTN: Kevin Timson

Test Start: 2014.05.13 @ 17:27:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:17:00

Time Test Ended: 23:09:00

Test Type: Conventional Straddle (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4853.00 ft (KB) To 4895.00 ft (KB) (TVD)**

Reference Elevations: 2883.00 ft (KB)

Total Depth: 5002.00 ft (KB) (TVD)

2872.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8357 Inside**

Press@RunDepth: psig @ 4857.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.13

End Date:

2014.05.13

Last Calib.:

2014.05.13

Start Time: 17:27:02

End Time:

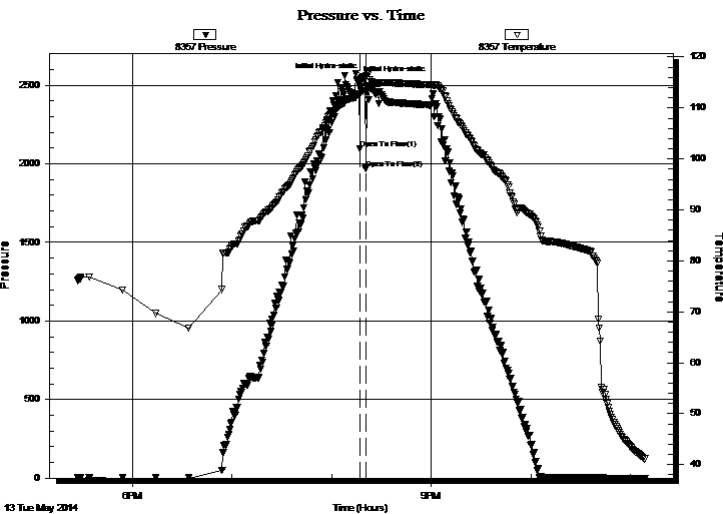
23:09:00

Time On Btm:

2014.05.13 @ 20:15:30

Time Off Btm:

TEST COMMENT: Packer seat failed twice, pulled tool.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2529.75	112.53	Initial Hydro-static
2	2098.52	112.75	Open To Flow (1)
4	2547.21	116.06	Initial Hydro-static
5	1970.46	116.06	Open To Flow (2)

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	M 100m	3.51

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Kevin Timson

**23-24s-31w Finney, KS**

**Irsik - Finney #1-23**

Job Ticket: 57686      **DST#: 2**  
 Test Start: 2014.05.13 @ 17:27:00

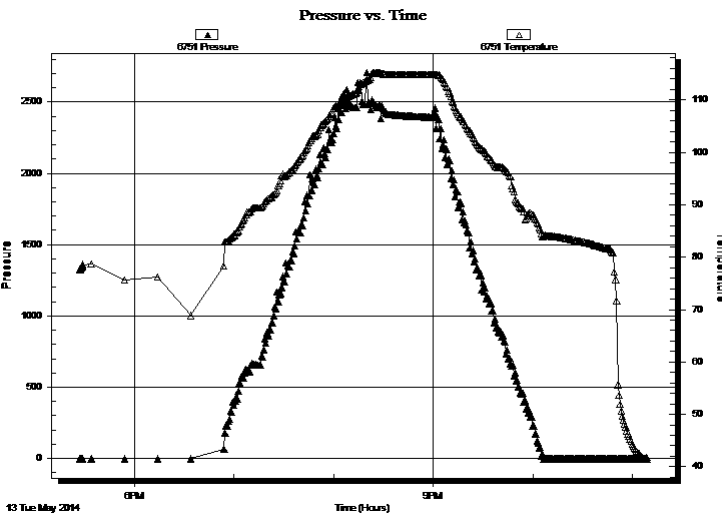
## GENERAL INFORMATION:

Formation: **Morrow**  
 Deviated: No Whipstock:                                  ft (KB)  
 Time Tool Opened: 20:17:00  
 Time Test Ended: 23:09:00  
**Interval: 4853.00 ft (KB) To 4895.00 ft (KB) (TVD)**  
 Total Depth: 5002.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle (Reset)  
 Tester: Chuck Smith  
 Unit No: 62  
 Reference Elevations: 2883.00 ft (KB)  
 2872.00 ft (CF)  
 KB to GR/CF: 11.00 ft

## Serial #: 6751 Below (Straddle)

Press@RunDepth:                                  psig @ 4902.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.05.13      End Date: 2014.05.13      Last Calib.: 2014.05.13  
 Start Time: 17:27:02      End Time: 23:08:49      Time On Btm:  
 Time Off Btm:

TEST COMMENT: Packer seat failed twice, pulled tool.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	M 100m	3.51

\* Recovery from multiple tests

## Gas Rates

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



TRILOBITE  
TESTING, INC

# DRILL STEM TEST REPORT

American Warrior, Inc.

23-24s-31w Finney,KS

PO Box 399  
Garden City, KS 67846

Irsik - Finney #1-23

ATTN: Kevin Timson

Job Ticket: 57686

DST#: 2

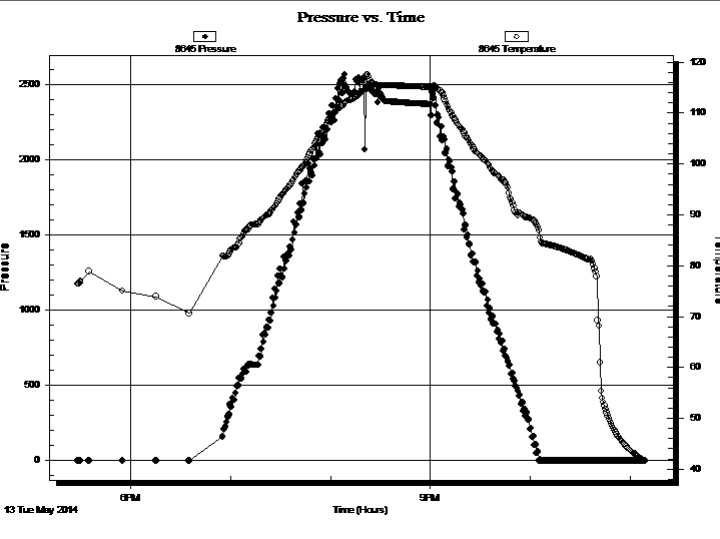
Test Start: 2014.05.13 @ 17:27:00

**GENERAL INFORMATION:**

Formation: **Morrow**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Straddle (Reset)  
 Time Tool Opened: 20:17:00  
 Tester: Chuck Smith  
 Time Test Ended: 23:09:00  
 Unit No: 62  
**Interval: 4853.00 ft (KB) To 4895.00 ft (KB) (TVD)**  
 Reference Elevations: 2883.00 ft (KB)  
 Total Depth: 5002.00 ft (KB) (TVD)  
 2872.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 KB to GR/CF: 11.00 ft

**Serial #: 8645 Outside**  
 Press@RunDepth: psig @ 4857.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.13 End Date: 2014.05.13 Last Calib.: 2014.05.13  
 Start Time: 17:28:12 End Time: 23:08:29 Time On Btm:  
 Time Off Btm:

TEST COMMENT: Packer seat failed twice, pulled tool.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
250.00	M 100m	3.51

**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.

**23-24s-31w Finney, KS**

PO Box 399  
Garden City, KS 67846

**Irsik - Finney #1-23**

Job Ticket: 57686

**DST#: 2**

ATTN: Kevin Timson

Test Start: 2014.05.13 @ 17:27:00

## Tool Information

Drill Pipe:	Length: 4835.00 ft	Diameter: 3.80 inches	Volume: 67.82 bbl	Tool Weight: 5000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 35000.00 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: 67.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.50 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4853.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	4895.00 ft			
Interval between Packers:	42.00 ft			
Tool Length:	176.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			4826.50	
Shut In Tool	5.00			4831.50	
Hydraulic tool	5.00			4836.50	
Jars	5.00			4841.50	
Safety Joint	2.50			4844.00	
Packer	5.00			4849.00	27.50 Bottom Of Top Packer
Packer	4.00			4853.00	
Stubb	1.00			4854.00	
Perforations	2.00			4856.00	
Change Over Sub	1.00			4857.00	
Recorder	0.00	8357	Inside	4857.00	
Recorder	0.00	8645	Outside	4857.00	
Drill Pipe	31.00			4888.00	
Change Over Sub	1.00			4889.00	
Perforations	2.00			4891.00	
Blank Off Sub	1.00			4892.00	
topof s pack	3.00			4895.00	42.00 Tool Interval
Packer	0.00			4895.00	
Stubb	1.00			4896.00	
Perforations	6.00			4902.00	
Recorder	0.00	6751	Below	4902.00	
Change Over Sub	1.00			4903.00	
Drill Pipe	95.00			4998.00	
Change Over Sub	1.00			4999.00	
Bullnose	3.00			5002.00	107.00 Bottom Packers & Anchor

**Total Tool Length: 176.50**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**23-24s-31w Finney, KS**

PO Box 399  
Garden City, KS 67846

**Irsik - Finney #1-23**

Job Ticket: 57686

**DST#: 2**

ATTN: Kevin Timson

Test Start: 2014.05.13 @ 17:27:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	M 100m	3.507

Total Length: 250.00 ft      Total Volume: 3.507 bbl

Num Fluid Samples: 0

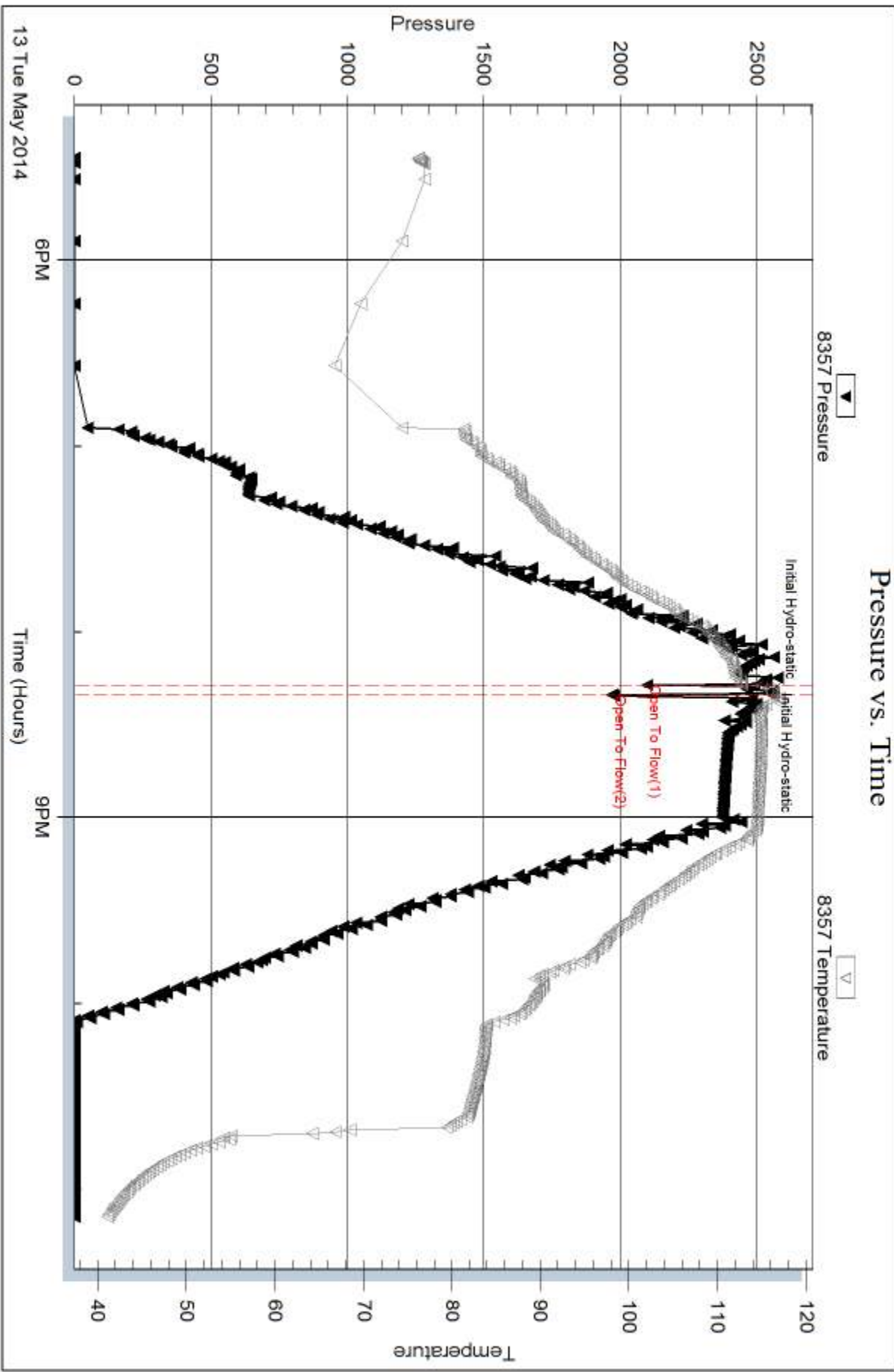
Num Gas Bombs: 0

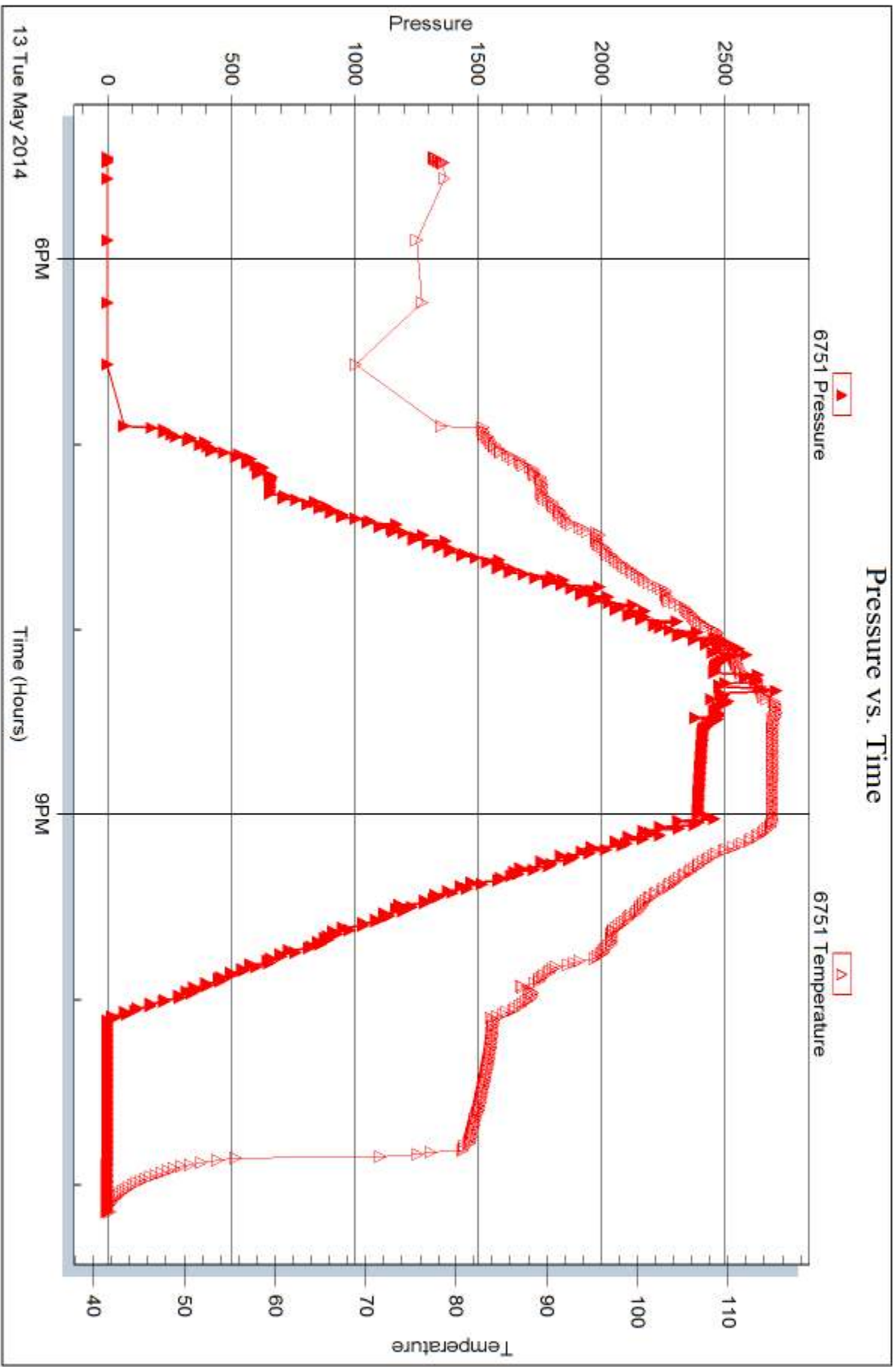
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



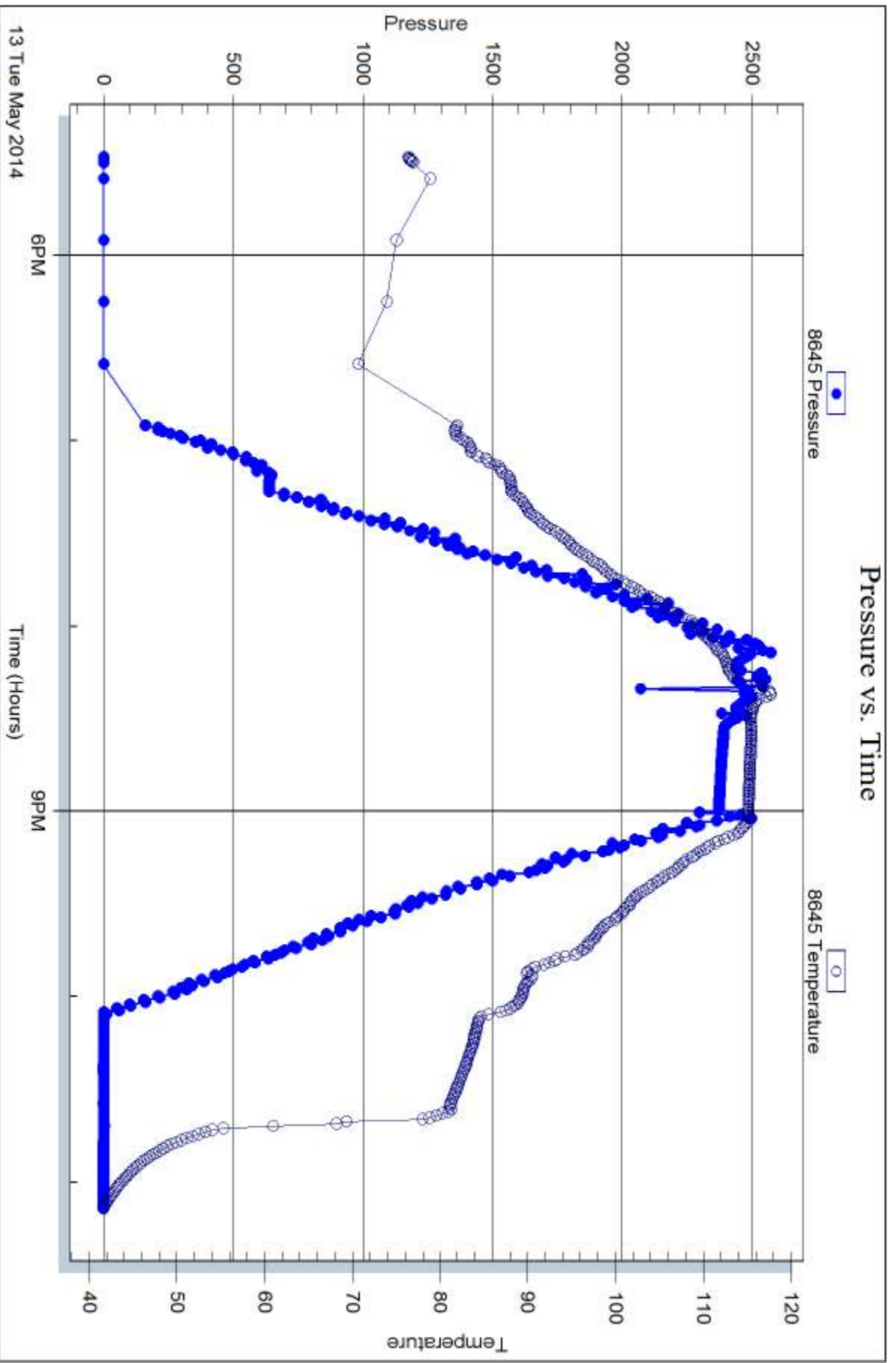


Serial #: 8645

Outside American Warrior, Inc.

Isik - Finney #1-23

DST Test Number: 2





## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Irsik - Finney #1-23**

#### **23-24s-31w Finney,KS**

Start Date: 2014.05.14 @ 00:03:00

End Date: 2014.05.14 @ 05:54:00

Job Ticket #: 57688                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.15 @ 14:21:28

American Warrior, Inc.

23-24s-31w Finney,KS

Irsik - Finney #1-23

DST # 3

Morrow

2014.05.14



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Kevin Timson

**23-24s-31w Finney, KS**

**Irsik - Finney #1-23**

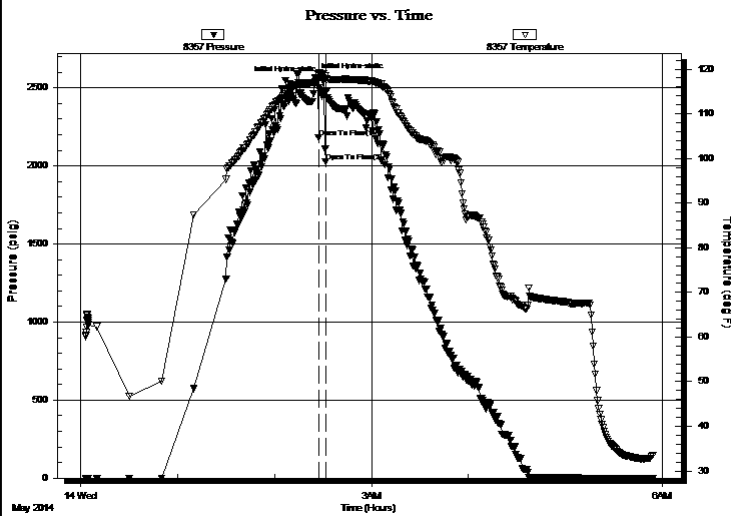
Job Ticket: 57688      **DST#: 3**  
Test Start: 2014.05.14 @ 00:03:00

## GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 02:27:10  
Time Test Ended: 05:54:00  
Interval: **4800.00 ft (KB) To 4915.00 ft (KB) (TVD)**  
Total Depth: 5002.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Straddle (Reset)  
Tester: Chuck Smith  
Unit No: 62  
Reference Elevations: 2883.00 ft (KB)  
2872.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 8357      Inside**  
Press@RunDepth:                      psig @ 4901.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.05.14      End Date: 2014.05.14      Last Calib.: 2014.05.14  
Start Time: 00:03:02      End Time: 05:54:00      Time On Btm: 2014.05.14 @ 02:25:10  
Time Off Btm:

TEST COMMENT: Packer seat failed twice, pulled the tool.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2567.78	117.09	Initial Hydro-static
2	2182.08	118.79	Open To Flow (1)
5	2547.47	119.05	Initial Hydro-static
7	2028.15	118.61	Open To Flow (2)

## Recovery

Length (ft)	Description	Volume (bbl)
340.00	M 100m	4.77
0.00	Hole not circulated before test.	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

American Warrior, Inc.

**23-24s-31w Finney,KS**

PO Box 399  
Garden City, KS 67846

**Irsik - Finney #1-23**

Job Ticket: 57688

**DST#: 3**

ATTN: Kevin Timson

Test Start: 2014.05.14 @ 00:03:00

### GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:27:10

Time Test Ended: 05:54:00

Test Type: Conventional Straddle (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4800.00 ft (KB) To 4915.00 ft (KB) (TVD)**

Reference Elevations: 2883.00 ft (KB)

Total Depth: 5002.00 ft (KB) (TVD)

2872.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6751**

**Below (Straddle)**

Press@RunDepth: psig @ 4935.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.13

End Date:

2014.05.14

Last Calib.:

2014.05.14

Start Time: 23:57:47

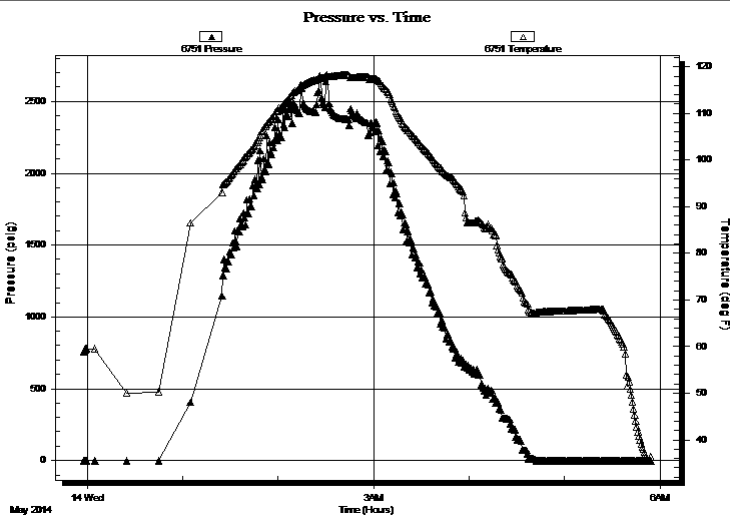
End Time:

05:54:25

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer seat failed twice, pulled the tool.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
340.00	M 100m	4.77
0.00	Hole not circulated before test.	0.00

\* Recovery from multiple tests

### Gas Rates

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



# DRILL STEM TEST REPORT

American Warrior, Inc.

**23-24s-31w Finney, KS**

PO Box 399  
Garden City, KS 67846

**Irsik - Finney #1-23**

Job Ticket: 57688      **DST#: 3**

ATTN: Kevin Timson

Test Start: 2014.05.14 @ 00:03:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:27:10

Time Test Ended: 05:54:00

Test Type: Conventional Straddle (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4800.00 ft (KB) To 4915.00 ft (KB) (TVD)**

Total Depth: 5002.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2883.00 ft (KB)

2872.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8645      Outside**

Press@RunDepth: psig @ 4901.00 ft (KB)

Start Date: 2014.05.13

End Date:

2014.05.14

Start Time: 23:58:32

End Time:

05:53:49

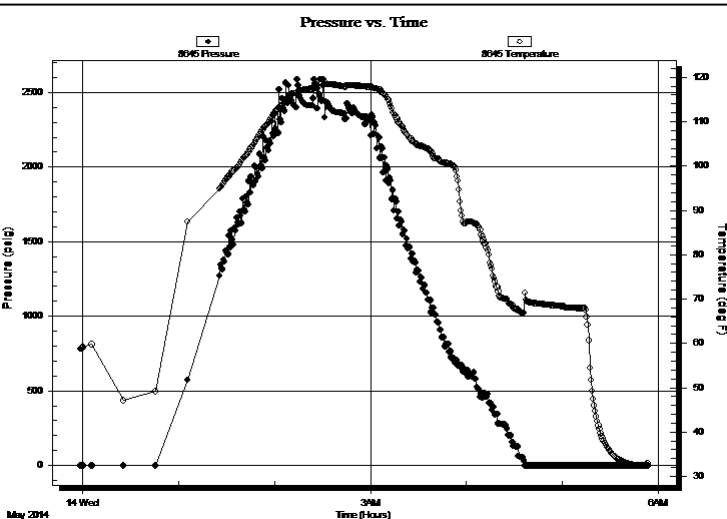
Capacity: 8000.00 psig

Last Calib.: 2014.05.14

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer seat failed twice, pulled the tool.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
340.00	M 100m	4.77
0.00	Hole not circulated before test.	0.00

## 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.

**23-24s-31w Finney, KS**

PO Box 399  
Garden City, KS 67846

**Irsik - Finney #1-23**

Job Ticket: 57688

**DST#: 3**

ATTN: Kevin Timson

Test Start: 2014.05.14 @ 00:03:00

## Tool Information

Drill Pipe:	Length: 4803.00 ft	Diameter: 3.80 inches	Volume: 67.37 bbl	Tool Weight: 5000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 35000.00 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: 67.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.50 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4800.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	4915.00 ft			
Interval between Packers:	115.00 ft			
Tool Length:	229.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			4773.50	
Shut In Tool	5.00			4778.50	
Hydraulic tool	5.00			4783.50	
Jars	5.00			4788.50	
Safety Joint	2.50			4791.00	
Packer	5.00			4796.00	27.50 Bottom Of Top Packer
Packer	4.00			4800.00	
Stubb	1.00			4801.00	
Perforations	3.00			4804.00	
Change Over Sub	1.00			4805.00	
Drill Pipe	95.00			4900.00	
Change Over Sub	1.00			4901.00	
Recorder	0.00	8357	Inside	4901.00	
Recorder	0.00	8645	Outside	4901.00	
Perforations	10.00			4911.00	
Blank Off Sub	1.00			4912.00	
topof s pack	3.00			4915.00	115.00 Tool Interval
Packer	0.00			4915.00	
Stubb	1.00			4916.00	
Perforations	18.00			4934.00	
Change Over Sub	1.00			4935.00	
Recorder	0.00	6751	Below	4935.00	
Drill Pipe	63.00			4998.00	
Change Over Sub	1.00			4999.00	
Bullnose	3.00			5002.00	87.00 Bottom Packers & Anchor

**Total Tool Length: 229.50**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**23-24s-31w Finney, KS**

PO Box 399  
Garden City, KS 67846

**Irsik - Finney #1-23**

Job Ticket: 57688

**DST#: 3**

ATTN: Kevin Timson

Test Start: 2014.05.14 @ 00:03:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
340.00	M 100m	4.769
0.00	Hole not circulated before test.	0.000

Total Length: 340.00 ft      Total Volume: 4.769 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

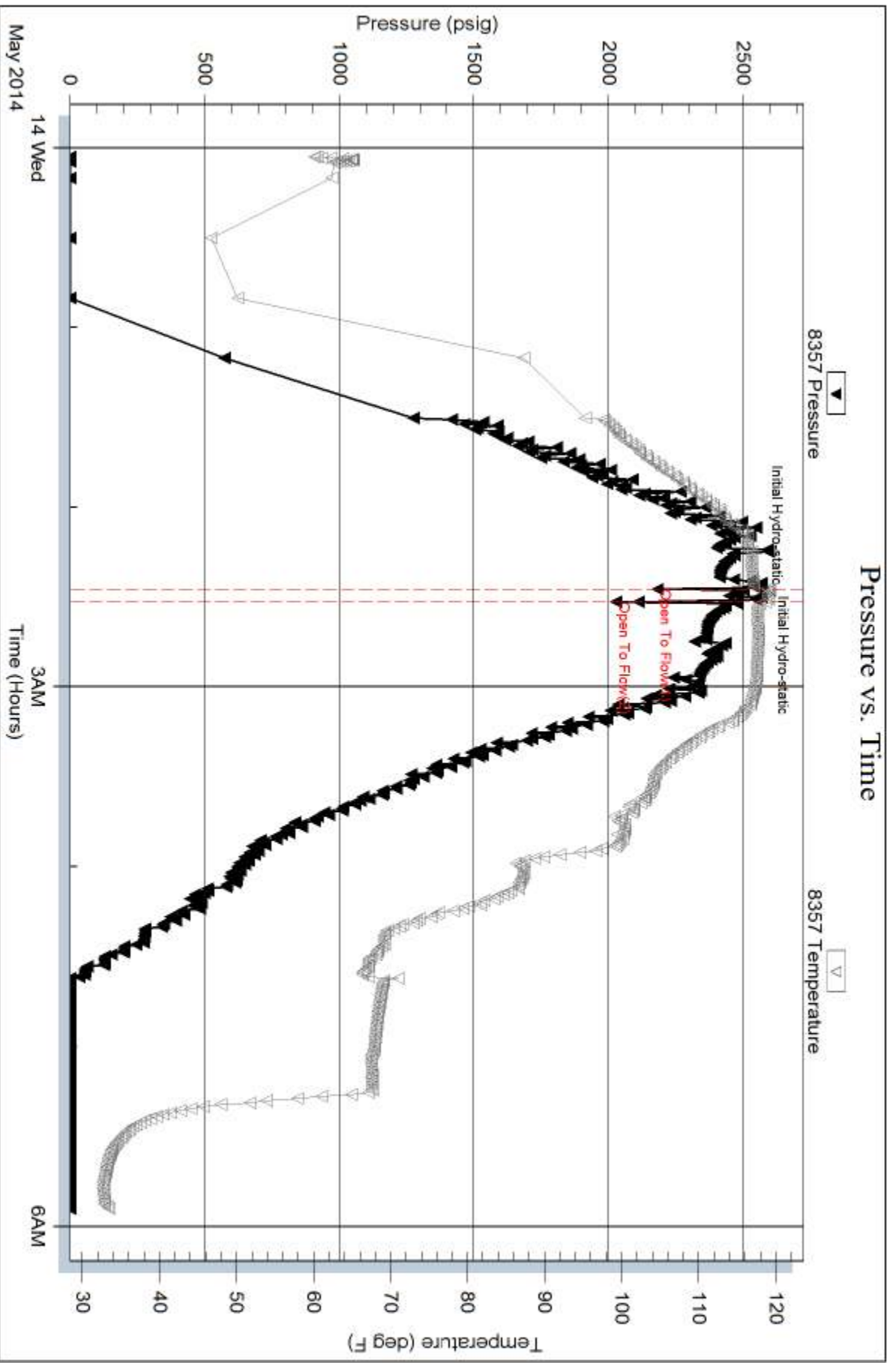
Serial #: 8357

Inside

American Warrior, Inc.

Isik - Finney #1-23

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 57688

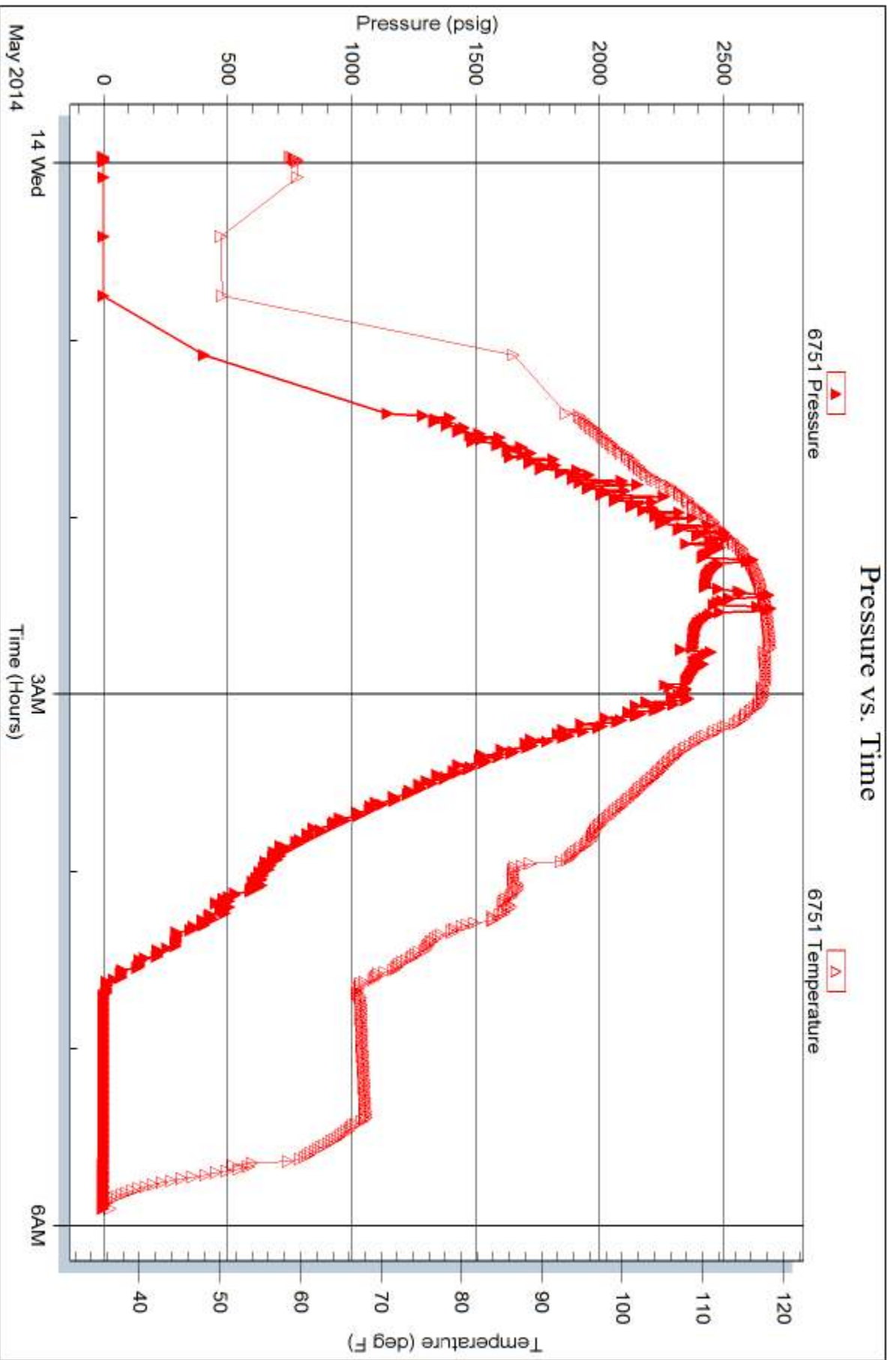
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Serial #: 6751

Below (Strat)tejan Warrior, Inc.

Isik - Finney #1-23

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 57688

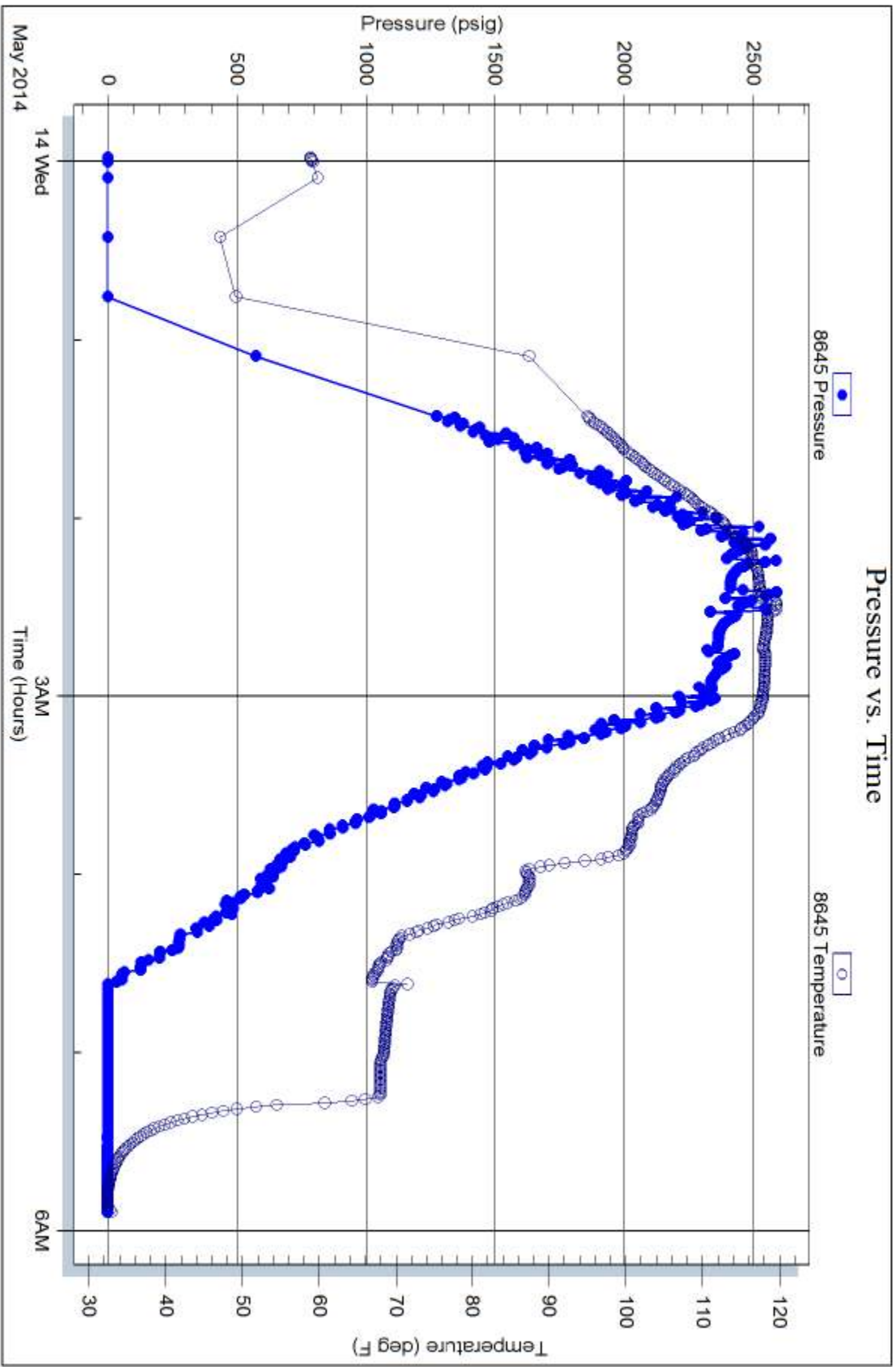
Printed: 2014.05.15 @ 14:21:30

Serial #: 8645

Outside American Warrior, Inc.

Isik - Finney #1-23

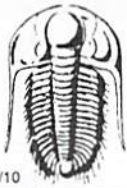
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 57688

Printed: 2014.05.15 @ 14:21:30



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **57685**

4/10

Well Name & No. Irsik - Finney #1-23 Test No. 1 Date 5-12-14  
 Company American Warrior, Inc. Elevation 4872983 KB 48862872 GL  
 Address P.O.B. 399 Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke #10  
 Location: Sec. 23 Twp. 24 Rge. 31 Co. Finney State KS

Interval Tested 4847 - 4886 Zone Tested Morrow  
 Anchor Length 39 Drill Pipe Run 4836 Mud Wt. 9.5  
 Top Packer Depth 4843 Drill Collars Run 0 Vis 48  
 Bottom Packer Depth 4847 Wt. Pipe Run 0 WL 9.2  
 Total Depth 4886 Chlorides 3700 ppm System LCM 2\*  
 Blow Description Packers failed to seat twice, pulled tool.

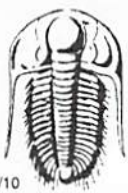
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>250</u>	Feet of <u>M</u>			%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 250 BHT N/A Gravity - API RW @ °F Chlorides - ppm

(A) Initial Hydrostatic  Test 1050 T-On Location 10:30  
 (B) First Initial Flow  Jars 250 T-Started 10:53  
 (C) First Final Flow  Safety Joint 75 T-Open 13:36  
 (D) Initial Shut-In  Circ Sub N/A T-Pulled 13:40  
 (E) Second Initial Flow  Hourly Standby  T-Out 16:29  
 (F) Second Final Flow  Mileage 98RT 151.90 Comments Packer failure  
 (G) Final Shut-In  Sampler   
 (H) Final Hydrostatic  Straddle   Ruined Shale Packer   
 Shale Packer   Ruined Packer   
 Extra Packer   Extra Copies   
 Initial Open   Extra Recorder  Sub Total 0  
 Initial Shut-In N/A  Day Standby  Total 1326.90  
 Final Flow N/A  Accessibility  MP/DST Disc't   
 Final Shut-In N/A Sub Total 1326.90

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. 57686

4/10

Well Name & No. Irsik-Finney #1-23 Test No. 2 Date 5-13-14  
 Company American Warrior, Inc. Elevation 4842003 KB 78862872 GL  
 Address POB 399 Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke #10  
 Location: Sec. 23 Twp. 24s Rge. 31w Co. Finney State KS

Interval Tested 4853-4895 Zone Tested Morrow  
 Anchor Length 42 Drill Pipe Run 4835 Mud Wt. 9.65  
 Top Packer Depth 4849 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 4895 Wt. Pipe Run 0 WL 10.0  
 Total Depth 5002 Chlorides 4800 ppm System LCM 2#  
 Blow Description Packer seat failed twice, pulled tool.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>250</u>	Feet of <u>M</u>			<u>100</u>	
Rec _____	Feet of _____				
Rec _____	Feet of _____				
Rec _____	Feet of _____				

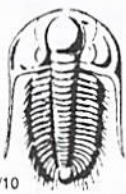
Rec Total 250 BHT N/A Gravity — API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2530  Test 1050 T-On Location 16:45  
 (B) First Initial Flow 2099  Jars 250 T-Started 17:27  
 (C) First Final Flow \_\_\_\_\_  Safety Joint 75 T-Open 20:17  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub N/A T-Pulled 20:21  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 23:09  
 (F) Second Final Flow \_\_\_\_\_  Mileage 48RT 151.90 Comments Packer failure  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle 250  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 8.33  
 Day Standby 1d .25h Total 1785.23  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1776.90

Approved By \_\_\_\_\_

Our Representative Chuck Smith

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 57688

Well Name & No. Irsik-Finney #1-23 Test No. 3 Date 5-14-14  
 Company American Warrior, Inc. Elevation 2883 KB 2872 GL  
 Address POB 399 Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke #10  
 Location: Sec. 23 Twp. 24s Rge. 31w Co. Finney State KS

Interval Tested 4800 - 4915 Zone Tested \_\_\_\_\_  
 Anchor Length 115 Drill Pipe Run 4803 Mud Wt. 9.65  
 Top Packer Depth 4796 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 4915 Wt. Pipe Run 0 WL 10.0  
 Total Depth 5002 Chlorides 4800 ppm System LCM 2"  
 Blow Description Packer seat failed twice, pulled the tool.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>340</u>	Feet of <u>M</u>			%water <u>100</u>	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT N/A Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2568  Test 1050 T-On Location Stayed  
 (B) First Initial Flow 2182  Jars 250 T-Started 00:03  
 (C) First Final Flow N/A  Safety Joint 75 T-Open 02:27  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub N/A T-Pulled 02:32  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 05:54  
 (F) Second Final Flow \_\_\_\_\_  Mileage \_\_\_\_\_ Comments Packer failure  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer 320  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 2275  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1975

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

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**CEMENTING LOG**

Date 5/7/2014 District Liberal # 21 Ticket No. 53125  
 Company AMERICAN WARRIOR Rig DUKE # 10  
 Lease IRISH-FINNEY Well No 1-23  
 County FINNEY CO. State KS.  
 Location \_\_\_\_\_

Field \_\_\_\_\_  
 Casing Data  Conductor  PTA  Squeeze  Misc.  
 Surface  Intermediate  Production  Liner  
 Size 10 5/8 Type \_\_\_\_\_ Weight 24# Collar \_\_\_\_\_

Casing Depths Top \_\_\_\_\_ Bottom 1697 ft.

Drill Pipe: BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Open Hole: BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Capacity Factors: BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Casing BBLS/LIN. FT 0.0637 LIN. FT/BBL 15.698  
 Open Holes BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Drill Pipe BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Annulus BBLS/LIN. FT 0.0735 LIN. FT/BBL 13.605  
 BBLS/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Perforations From \_\_\_\_\_ ft to \_\_\_\_\_ ft Amt \_\_\_\_\_

CEMENT DATA

Spacer Type \_\_\_\_\_ 5 BBLs H2O  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density 8.34 PPG \_\_\_\_\_

LEAD: Time \_\_\_\_\_ hrs. Type 65/35/6%GEL  
3%CC, .5%LB/SK FLOSEAL Excess 100%

Amt. 625 Sks Yield 2 ft<sup>3</sup>/sk Density 12.46 PPG \_\_\_\_\_  
 TAIL: Time \_\_\_\_\_ hrs. Type CLASS A NEAT

Excess 100%  
 Amt. 200 Sks Yield 1.2 ft<sup>3</sup>/sk Density 15.6 PPG \_\_\_\_\_  
 WATER Lead 10.9 Gal/sk Tail 5.2 Gal/sk Total 161.7 BBLs

Pump Trucks Used: 531-541  
 Bulk Equipment 869-841  
868-842

Float Equipment: Manufacturer WEATHERFORD  
 Shoe: Type GUIDESHOE Depth 1697FT.  
 Float: Type AFU INSERT FLOAT Depth 1654.75FT.  
 Centralizers: Quantity 3 Plugs Top 1 Bottom \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equipment 1 CEMENT BASKET  
 Disp: Fluid Type H2O Amt 105.4 bbls Weight 8.34 PPG \_\_\_\_\_  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_

COMPANY REPRESENTATIVE ALEX. CEMENTER Ruben Chavez

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
1:30a.m.						Got To Location Spot Truks, And Rig Up.
3:35						Have A Pre-job Safety Meeting
3:52			2	2	2	pu mp 2bb s h2o to fill up pumping lines
3:54			5	3	2	Pressure test 2500 psi, then pump 3 bbls h2o spacer
3:58			227.6	222.6	7	Start pumping lead cement 625 sk.
4:30			270.3	42.7	5	start pumping tail cement 200 sk.
4:39						shut down
						wash pump
4:42						Drop plug
4:42			365.3	95	7	start displacement
4:56			376.3	11	3	slow down pump rate
5:50						Finished displacement and bump the plug at 1100 psi.
5:55						Release pressure, float held good
						Circulate to pit 40 bbls slurry
						job finished
						rig down
						thankyou

FINAL DISP. PRESS. 600 PSI BUMP PLUG TO 1100 PSI BLEEDBACK 2-Jan BBLs **THANK YOU**



# CEMENTING LOG

Date 5/14/2014 District Liberal # 21 Ticket No. 53129  
 Company AMERICAN WARRIOR Rig DUKE # 10  
 Lease IRISK FINNEY Well No 1-23  
 County FINNEY CO. State KS.  
 Location \_\_\_\_\_  
 Field \_\_\_\_\_  
 Casing Data  Conductor  PTA  Squeeze  Misc.  
 Surface  Intermediate  Production  Liner  
 Size 8 5/8 Type \_\_\_\_\_ Weight 24# Collar \_\_\_\_\_

### CEMENT DATA

Spacer Type 10 BBLs H2O  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density 8.34 PPG  
 LEAD: Time \_\_\_\_\_ hrs. Type 60/40/4%GEL  
 Excess \_\_\_\_\_  
 Amt. 210 Sks Yield 1.5 ft<sup>3</sup>/sk Density 13.5 PPG  
 TAIL: Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 WATER Lead 7.5 Gal/sk Tail \_\_\_\_\_ Gal/sk Total \_\_\_\_\_ BBLs

Casing Depths Top \_\_\_\_\_ Bottom 1654.75FT.

Pump Trucks Used: 531-541  
 Bulk Equipment 774-744

Drill Pipe: BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Open Hole: BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Capacity Factors: BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Casing BBLs/LIN. FT 0.0637 LIN. FT/BBL 15.698  
 Open Holes BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Drill Pipe BBLs/LIN. FT 0.0406 LIN. FT/BBL 24.63  
 Annulus BBLs/LIN. FT 0.044 LIN. FT/BBL 22.727  
 Perforations From \_\_\_\_\_ ft to \_\_\_\_\_ ft Amt \_\_\_\_\_

Float Equipment: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Bottom \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equipment \_\_\_\_\_  
 Disp: Fluid Type H2O Amt \_\_\_\_\_ bbls Weight 8.4 PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_

COMPANY REPRESENTATIVE ALEJANDRO

CEMENTER Ruben Chavez

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
2:00						Got To Location Spot Trucks, And Rig Up.
2:20						Have A Pre-job Safety Meeting
2:30	200		2	2	2	pu mp 2bb s h2o to fill up pumping lines
2:33						pressure test to 1000 psi
2:35	200		10	8	3	start pumping 8 BBLs H2O AHEAD
2:40	200		36.7	26.7	4	Start pumping 100 sk cement ay 2050 ft. 26.7 bbls slurry
al	0		58.7	22	4	displace with 2.5 bbls h2o and 19.5 bbls mud pumped with rig
3:35	50		72	13.3	4	Pump 50 sk cement at 1030 ft. 13.3 bbls slurry
3:40	0		83.3	11.3	4	displace with 11.3 bbls h2o
4:30			88.6	5.3	3	Pump 2o sk. Cement at 60 ft. 5.3 bbls slurry
4:35			96.6	8	3	Start pumping 30 sk. At rat hole 8.0 bbls slurry.
4:40			101.9	5.3	3	Start pumping 20 sk. At mouse hole 5.3 bbls slurry
						Wash pump lines
						Job finished
						Rig down
						Thankyou.

FINAL DISP. PRESS. \_\_\_\_\_ PSI BUMP PLUG TO 1000 PSI BLEEDBACK Pre BBLs **THANK YOU**

# **Geological Report**

American Warrior, Inc.  
**Irsik-Finney #1-23**  
1768' FSL & 2556' FEL  
Sec. 23, T24s, R31w  
Finney County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Irsik-Finney #1-23  
1768' FSL & 2556' FEL  
Sec. 23, T24s, R31w  
Finney County, Kansas  
API # 15-055-22298-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: May 6, 2014

Completion Date: May 14, 2014

Elevation 2872' G.L.  
2883' K.B.

Directions: From Garden City, KS. Go Southeast on Hwy 50 to Pole Line Rd. Go East 2 miles to Sherman Rd. Go South  $\frac{3}{4}$ " miles and East on lease road and North into location.

Casing: 1685' 8 5/8" #24 Surface Casing

Samples: 4000' to RTD 10' Wet & Dry

Drilling Time: 3950' to RTD

Electric Logs: Pioneer Energy Services "J. Long"  
Full Sweep

Drillstem Tests: Three-Trilobite Testing "Chuck Smith"

Problems: All three DST's were misruns

## Formation Tops

Irsik-Finney #1-23

Sec. 23, T24s, R31w

1768' FSL & 2556' FEL

Anhydrite	1950' +933
Base	2018' +865
Heebner	4024' -1141
Lansing	4079' -1196
Stark	4435' -1552
Bkc	4566' -1683
Marmaton	4586' -1703
Pawnee	4663' -1780
Fort Scott	4687' -1804
Cherokee	4701' -1818
Morrow	4857' -1974
Miss	4881' -1998
RTD	5000' -2117
LTD	5002' -2119

### Sample Zone Descriptions

**Morrow** (4857', -1974): Not Tested

Sandstone. Grey/Glauconitic. Fine to medium grain. Well rounded, well sorted. Fair stain. Poor saturation. No show of free oil. Poor odor. 10 units hotwire.

**St. Louis** (4881', -1998): Not Tested

Ls. Tan. Sub crystalline. Fair oomoldic and oolycastic porosity. Fair stain and fair saturation in porosity. Slight show of free oil when broken. Fair odor. 20 units hotwire.

**Drill Stem Tests**  
 Trilobite Testing  
 “Chuck Smith”

**All 3 DST’s were misruns**

**Structural Comparison**

<b>Formation</b>	<b>American Warrior, Inc. Irsik-Finney #1-23 Sec. 23, T24s, R31w 1768’ FSL &amp; 2556’ FEL</b>	<b>Sharon Resources, Inc. Gates #19-1 Sec. 19, T24s, R30w 2100’ FNL &amp; 330’ FWL</b>
Heebner	<b>4024’ -1141</b>	<b>+33</b> 4056’ -1174
Lansing	<b>4079’ -1196</b>	<b>+35</b> 4113’ -1231
Stark	<b>4435’ -1552</b>	<b>+16</b> 4450’ -1568
BKC	<b>4566’ -1683</b>	<b>+15</b> 4580’ -1698
Marmaton	<b>4586’ -1703</b>	<b>+19</b> 4604’ -1722
Pawnee	<b>4663’ -1780</b>	<b>+17</b> 4679’ -1797
Fort Scott	<b>4687’ -1804</b>	<b>+19</b> 4705’ -1823
Cherokee	<b>4701’ -1818</b>	<b>+19</b> 4719’ -1837
Morrow	<b>4857’ -1974</b>	<b>+16</b> 4872’ -1990
St. Louis	<b>4881’ -1998</b>	<b>+21</b> 4901’ -2019

**Summary**

The location for the Irsik-Finney #1-23 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem tests were conducted, all of which were misruns. After examining the gathered data, the decision was made to plug and abandon the Irsik-Finney #1-23 well.

Respectfully Submitted,

Kevin Timson  
 American Warrior, Inc.

