



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1238310
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: _____



1238310

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	O'Brate Finney 2-5
Doc ID	1238310

Tops

Name	Top	Datum
Anhy	1903'	+959
B/Anhy	1989'	+873
Heebner	3847'	-985
Lansing	3896'	-1034
B/KC	4367'	-1505
Marmaton	4391'	-1529
Ft.Scott	4490'	-1628
Morrow	466'	-1804
Mississippian	4702'	-1840

Geological Report

American Warrior, Inc.

O'Brate-Finney #2-5

790' FSL & 1440' FEL

Sec. 5, T23s, R32w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
O'Brate-Finney #2-5
790' FSL & 1440' FEL
Sec. 5, T23s, R32w
Finney County, Kansas
API # 15-055-22369-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: December 14, 2014

Completion Date: December 23, 2014

Elevation 2851' G.L.
2862' K.B.

Directions: From Garden City, KS, go North on Hwy 83 5 miles to Six Mile Rd. Go East a half mile to Third St. Go North 3/4 mile and East into.

Casing: 1713' 8 5/8" #24 Surface Casing

Samples: 4200' to RTD 10' Wet & Dry

Drilling Time: 3750' to RTD

Electric Logs: Pioneer Energy Services "D. Fischer"
Stack-Mirco

Drillstem Tests: Three-Trilobite Testing "Justin Harris"

Problems: Packer Failure on DST #3 during second open.

Formation Tops
O'Brate-Finney #2-5
Sec. 5, T23s, R32w
790' FSL & 1440' FEL

Anhydrite	1903' +959
Base	1989' +873
Heebner	3847' -985
Lansing	3896' -1034
Stark	4230' -1368
Bkc	4367' -1505
Marmaton	4391' -1529
Pawnee	4468' -1606
Fort Scott	4490' -1628
Cherokee	4505' -1643
Morrow	4666' -1804
Miss	4702' -1840
RTD	4900' -2038
LTD	4910' -2048

Sample Zone Descriptions

St. Louis (4677', -1817): **Covered in DST #1 & 2**

 Ls. Tan. Sub crystalline. Fair to good oomoldic and oolycastic porosity. Poor stain and poor saturation in porosity. No show of free oil when broken. Fair odor. 10 Unit kick.

Drill Stem Tests
 Trilobite Testing
 "Justin Harris"

DST #1

St. Louis

Interval (4750' - 4792') Anchor Length 42'

IHP -2434 #
 IFP - 30" – WSB built to 1.5" 21-32 #
 ISI - 30" – No Return 1176 #
 FFP - 30" – No blow flushed tool 2.5" blow 29-61 #
 FSIP - 30" - No return 1213 #
 FHP - 2287 #
 BHT - 116° F

Recovery: 85' Mud with oil spots

DST #2

St. Louis

Interval (4751' - 4830') Anchor Length 79'

IHP - 2449 #
 IFP -30" - WSB built to 2" 19-26 #
 ISI -30" - No return 1212 #
 FFP - 30" - WSB 27-34 #
 FSIP - 30" - No return 1172 #
 FHP - 2247 #
 BHT - 114° F

Recovery: 35' Mud with oil spots

DST #3

St. Louis

Interval (4660' - 4715') Anchor Length 55' Tail Pipe: 195'

IHP - 2458 #
 IFP - 30" - WSB built to 10.5" 68-93#
 ISI - 45" - No return 1196 #
 FFP - Packer Failure Pull tool NA
 FSIP - NA NA
 FHP - 2084 #
 BHT - 116° F

Recovery: 2558' Mud

Structural Comparison

Formation	American Warrior, Inc. O'Brate-Finney #2-5 Sec. 5, T23s, R32w 790' FSL & 1440' FEL		Norstar Petroleum Bergkamp #1-8 Sec. 8, T23s, R32w 660' FSL & 1980' FEL		American Warrior, Inc. O'Brate-Finney #1-5 Sec 5, T23s, R32w 742' FSL & 2310' FWL
Heebner	3847' -985	-24	3817' -961	-16	3829' -969
Lansing	3896' -1034	-25	3865' -1009	-17	3877' -1017
Stark	4230' -1368	-20	4204' -1348	-16	4212' -1352
BKC	4367' -1505	-20	4341' -1485	-15	4350' -1490
Marmaton	4391' -1529	-22	4363' -1507	-14	4375' -1515
Pawnee	4468' -1606	-21	4441' -1585	-17	4449' -1589
Fort Scott	4490' -1628	-19	4465' -1609	-16	4472' -1612
Cherokee	4505' -1643	-17	4482' -1626	-12	4491' -1631
Morrow	4666' -1804	+18	4678' -1822	-6	4658' -1798
Miss	4702' -1840	+11	4685' -1829	-23	4677' -1817

Summary

The location for the O'Brate-Finney #2-5 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem tests were conducted, which did not recover commercial quantities of oil. After all the gathered data had been examined, the decision was made to plug and abandon the O'Brate-Finney #2-5 well.

Respectfully Submitted,

Kevin Timson
American Warrior, Inc.



DRILL STEM TEST REPORT

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

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

O'Brate-Finney #2-5

5-23s-32w Finney,KS

Start Date: 2014.12.20 @ 14:25:00

End Date: 2014.12.20 @ 20:54:00

Job Ticket #: 58680 DST #: 1

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

Printed: 2014.12.23 @ 16:22:01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

5-23s-32w Finney,KS

O'Brate-Finney #2-5

Job Ticket: 58680 **DST#: 1**
Test Start: 2014.12.20 @ 14:25:00

GENERAL INFORMATION:

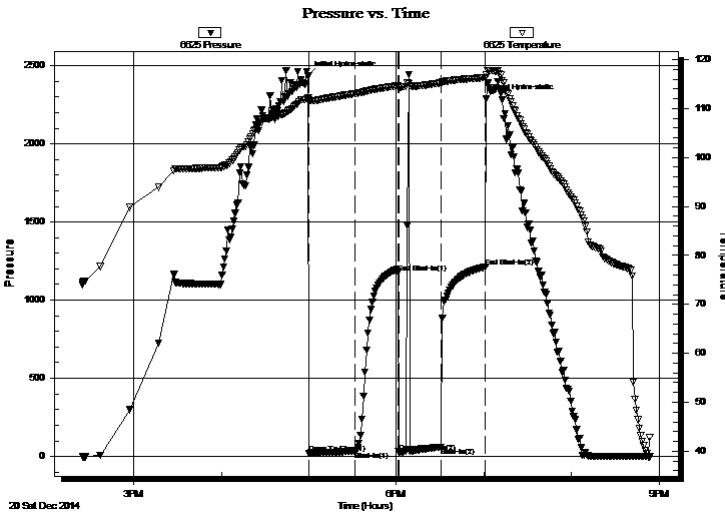
Formation: **St. Louis**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:00:00
Time Test Ended: 20:54:00
Interval: **4750.00 ft (KB) To 4792.00 ft (KB) (TVD)**
Total Depth: 4792.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Justin Harris
Unit No: 58
Reference Elevations: 2862.00 ft (KB)
2853.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6625 Outside

Press@RunDepth: 60.62 psig @ 4788.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.12.20 End Date: 2014.12.20 Last Calib.: 2014.12.20
Start Time: 14:25:01 End Time: 20:54:00 Time On Btm: 2014.12.20 @ 16:59:30
Time Off Btm: 2014.12.20 @ 19:01:30

TEST COMMENT: 30: Weak surface blow build to 1 1/2".
30: No Return.
30: No Blow (Flush tool) Blow build to 2 1/2".
30: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2433.92	112.25	Initial Hydro-static
1	20.94	111.71	Open To Flow (1)
32	31.87	113.03	Shut-In(1)
62	1176.33	114.62	End Shut-In(1)
62	28.96	114.43	Open To Flow (2)
91	60.62	115.22	Shut-In(2)
122	1213.33	116.31	End Shut-In(2)
122	2286.87	116.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	mud w ith oil spots	1.19

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior, Inc.

5-23s-32w Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #2-5

Job Ticket: 58680 **DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.12.20 @ 14:25:00

GENERAL INFORMATION:

Formation: **St. Louis**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:00:00
Time Test Ended: 20:54:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Justin Harris
Unit No: 58

Interval: 4750.00 ft (KB) To 4792.00 ft (KB) (TVD)
Total Depth: 4792.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

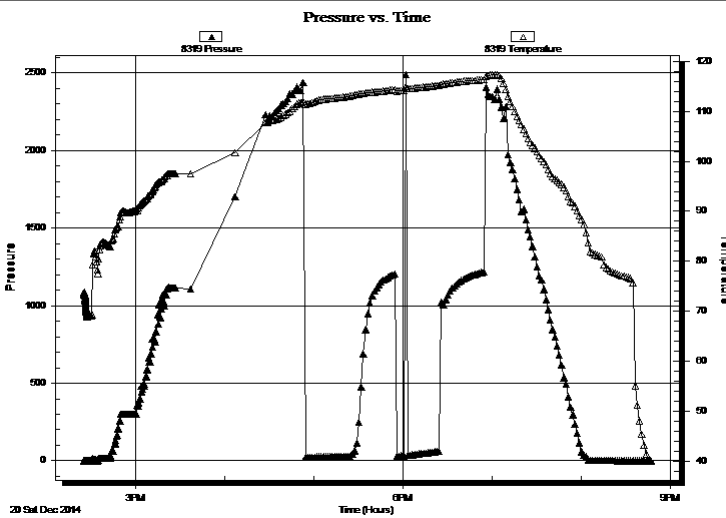
Reference Elevations: 2862.00 ft (KB)
2853.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8319

Press@RunDepth: psig @ ft (KB)
Start Date: 2014.12.20 End Date: 2014.12.20
Start Time: 14:25:01 End Time: 20:48:00

Capacity: 8000.00 psig
Last Calib.: 2014.12.20
Time On Btm:
Time Off Btm:

TEST COMMENT: 30: Weak surface blow build to 1 1/2".
30: No Return.
30: No Blow (Flush tool) Blow build to 2 1/2".
30: No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
85.00	mud w ith oil spots	1.19

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

5-23s-32w Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #2-5

Job Ticket: 58680

DST#: 1

ATTN: Kevin Timson

Test Start: 2014.12.20 @ 14:25:00

Tool Information

Drill Pipe:	Length: 4735.00 ft	Diameter: 3.80 inches	Volume: 66.42 bbl	Tool Weight: 2500.00 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: 70000.00 lb
			<u>Total Volume: 66.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4750.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 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			4723.00	
Shut In Tool	5.00			4728.00	
Hydraulic tool	5.00			4733.00	
Jars	5.00			4738.00	
Safety Joint	3.00			4741.00	
Packer	5.00			4746.00	28.00 Bottom Of Top Packer
Packer	4.00			4750.00	
Stubb	1.00			4751.00	
Perforations	3.00			4754.00	
Change Over Sub	1.00			4755.00	
Drill Pipe	32.00			4787.00	
Change Over Sub	1.00			4788.00	
Recorder	0.00	6625	Outside	4788.00	
Recorder	0.00	8679	Inside	4788.00	
Bullnose	4.00			4792.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

5-23s-32w Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #2-5

Job Ticket: 58680 **DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.12.20 @ 14:25:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

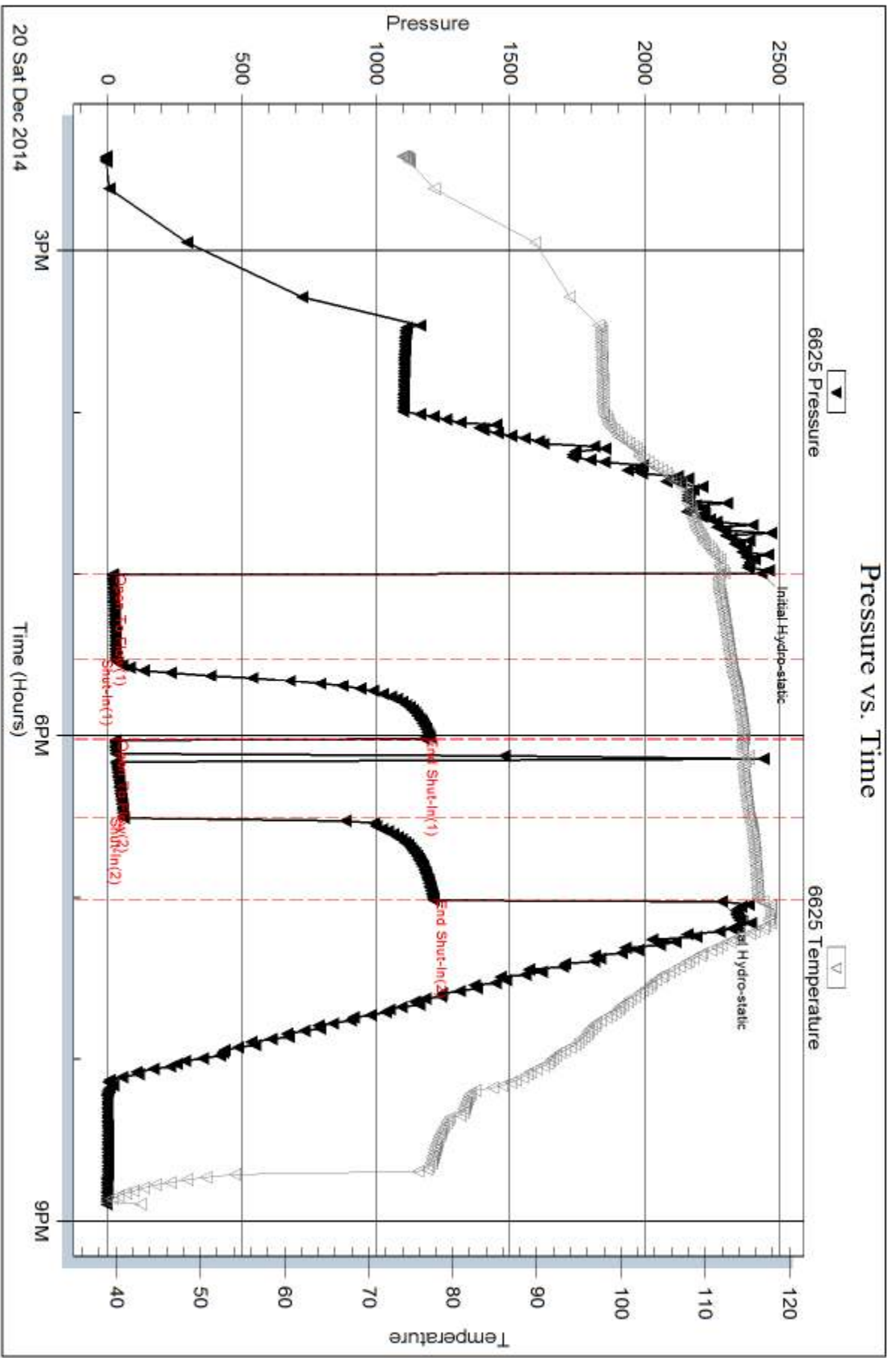
Length ft	Description	Volume bbl
85.00	mud w ith oil spots	1.192

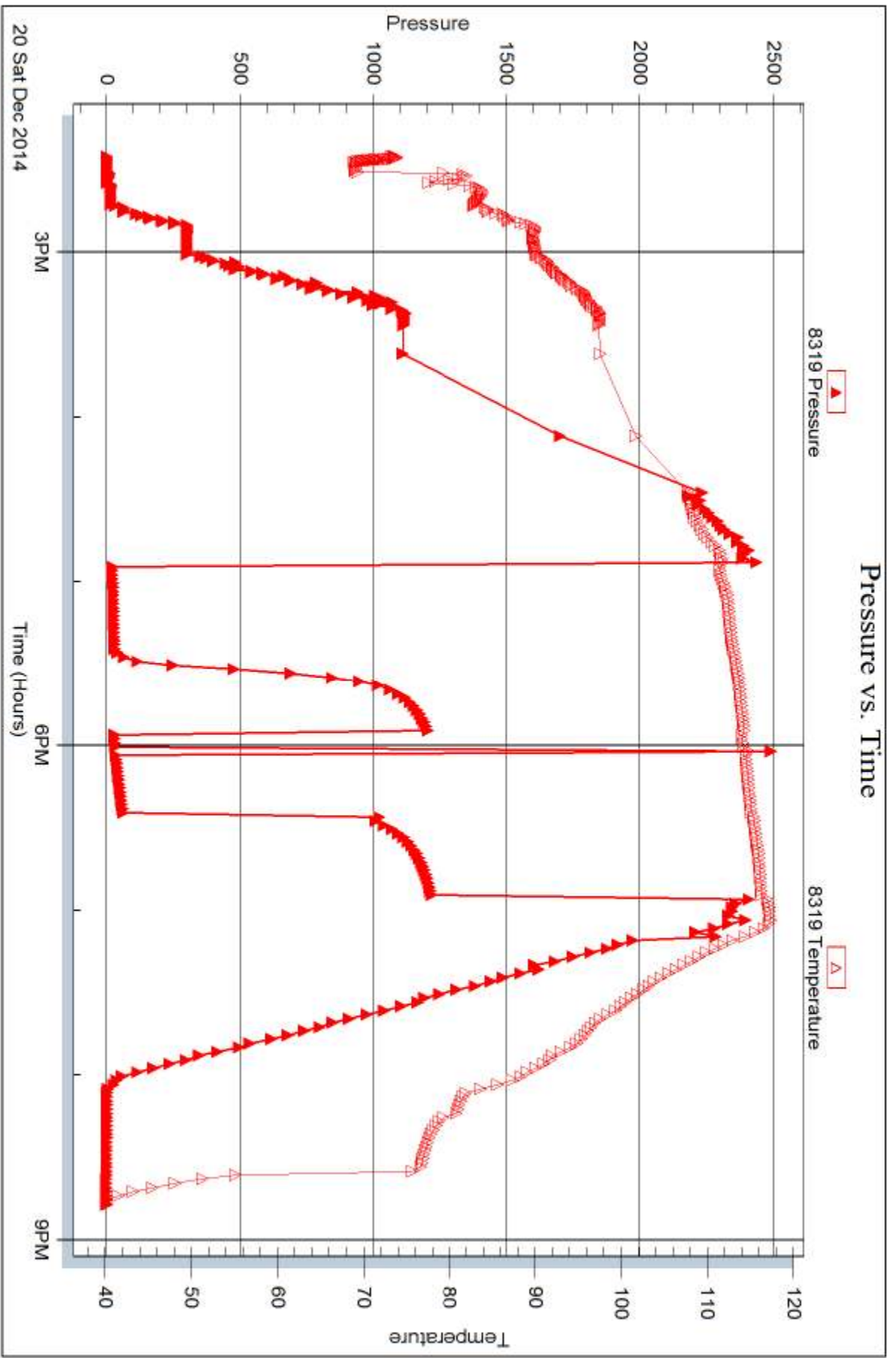
Total Length: 85.00 ft Total Volume: 1.192 bbl

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 #2-5

5-23s-32w Finney,KS

Start Date: 2014.12.22 @ 00:00:00

End Date:

Job Ticket #: 61501

DST #: 2

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

Printed: 2014.12.23 @ 16:21:01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

5-23s-32w Finney,KS

O'Brate-Finney #2-5

Job Ticket: 61501 **DST#: 2**
 Test Start: 2014.12.22 @ 00:00:00

GENERAL INFORMATION:

Formation: **St Louis**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
 Interval: **4751.00 ft (KB) To 4830.00 ft (KB) (TVD)**
 Total Depth: 4830.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Justin Harris
 Unit No: 58
 Reference Elevations: 2862.00 ft (KB)
 2853.00 ft (CF)
 KB to GR/CF: 9.00 ft

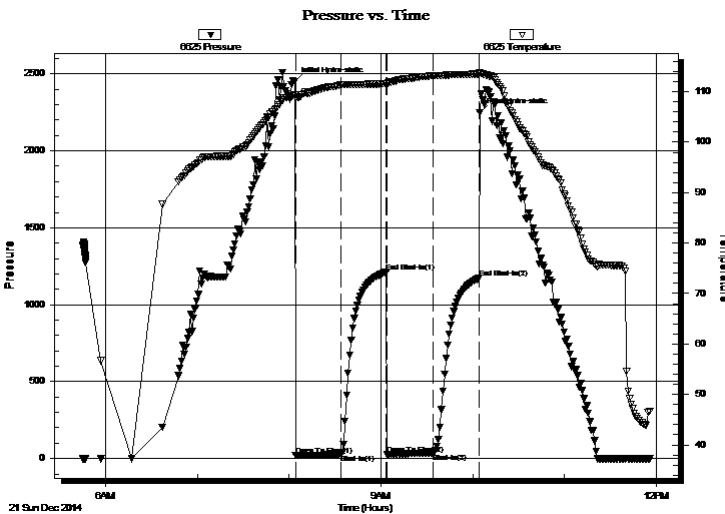
Serial #: 6625

Outside

Press@RunDepth: 34.14 psig @ 4826.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.12.21 End Date: 2014.12.21 Last Calib.: 2014.12.21
 Start Time: 05:45:01 End Time: 11:56:00 Time On Btm: 2014.12.21 @ 08:03:30
 Time Off Btm: 2014.12.21 @ 10:04:30

TEST COMMENT: 30 Weak surface blow built to 2"
 30 No Return
 30 Weak surface blow
 30 No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2449.23	109.29	Initial Hydro-static
1	18.72	108.83	Open To Flow (1)
31	25.62	111.34	Shut-In(1)
60	1212.37	111.59	End Shut-In(1)
61	27.24	111.49	Open To Flow (2)
91	34.14	113.21	Shut-In(2)
121	1172.30	113.52	End Shut-In(2)
121	2247.28	113.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	mud w ith oil spots	0.49

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

American Warrior, Inc.

5-23s-32w Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #2-5

Job Ticket: 61501

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.12.22 @ 00:00:00

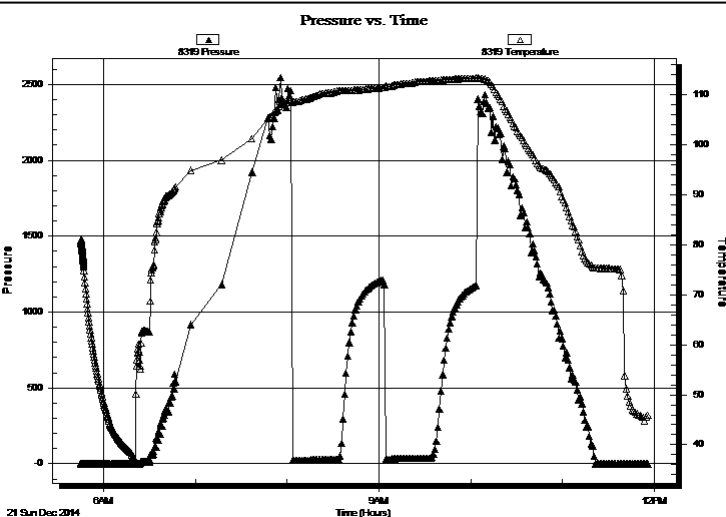
GENERAL INFORMATION:

Formation: **St Louis**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: Tester: Justin Harris
 Time Test Ended: Unit No: 58
 Interval: **4751.00 ft (KB) To 4830.00 ft (KB) (TVD)** Reference Elevations: 2862.00 ft (KB)
 Total Depth: 4830.00 ft (KB) (TVD) 2853.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

Serial #: 8319

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.12.21 End Date: 2014.12.21 Last Calib.: 2014.12.21
 Start Time: 05:45:01 End Time: 11:55:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 Weak surface blow built to 2"
 30 No Return
 30 Weak surface blow
 30 No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	mud w ith oil spots	0.49

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.

5-23s-32w Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #2-5

Job Ticket: 61501

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.12.22 @ 00:00:00

Tool Information

Drill Pipe:	Length: 4735.00 ft	Diameter: 3.80 inches	Volume: 66.42 bbl	Tool Weight:	2500.00 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:	70000.00 lb
			<u>Total Volume: 66.42 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4751.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	79.00 ft				
Tool Length:	107.00 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			4724.00	
Shut In Tool	5.00			4729.00	
Hydraulic tool	5.00			4734.00	
Jars	5.00			4739.00	
Safety Joint	3.00			4742.00	
Packer	5.00			4747.00	28.00 Bottom Of Top Packer
Packer	4.00			4751.00	
Stubb	1.00			4752.00	
Perforations	9.00			4761.00	
Change Over Sub	1.00			4762.00	
Drill Pipe	63.00			4825.00	
Change Over Sub	1.00			4826.00	
Recorder	0.00	6625	Outside	4826.00	
Recorder	0.00	8679	Inside	4826.00	
Bullnose	4.00			4830.00	79.00 Bottom Packers & Anchor

Total Tool Length: 107.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

5-23s-32w Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #2-5

Job Ticket: 61501

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.12.22 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	mud w ith oil spots	0.491

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

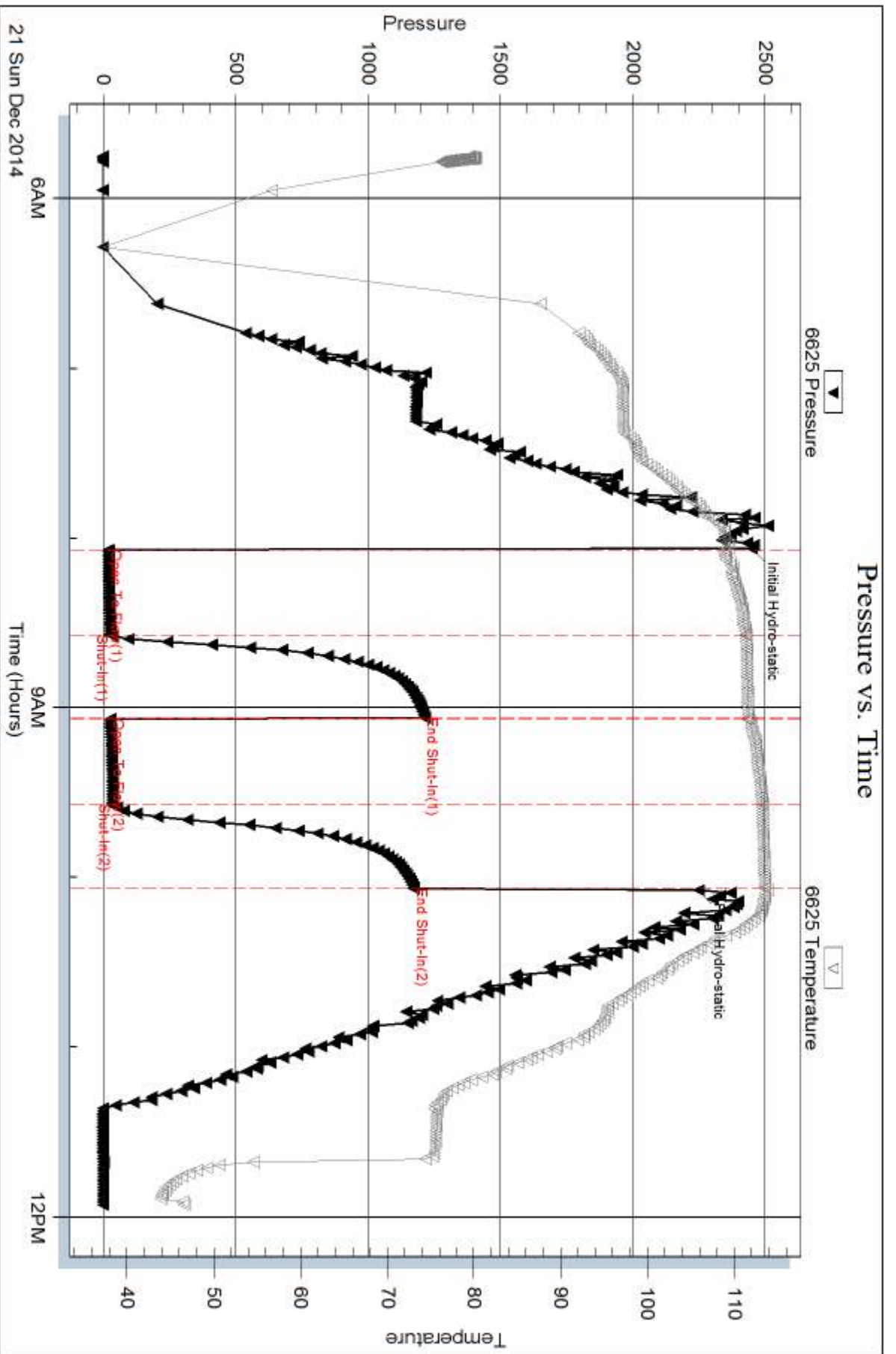
Num Gas Bombs: 0

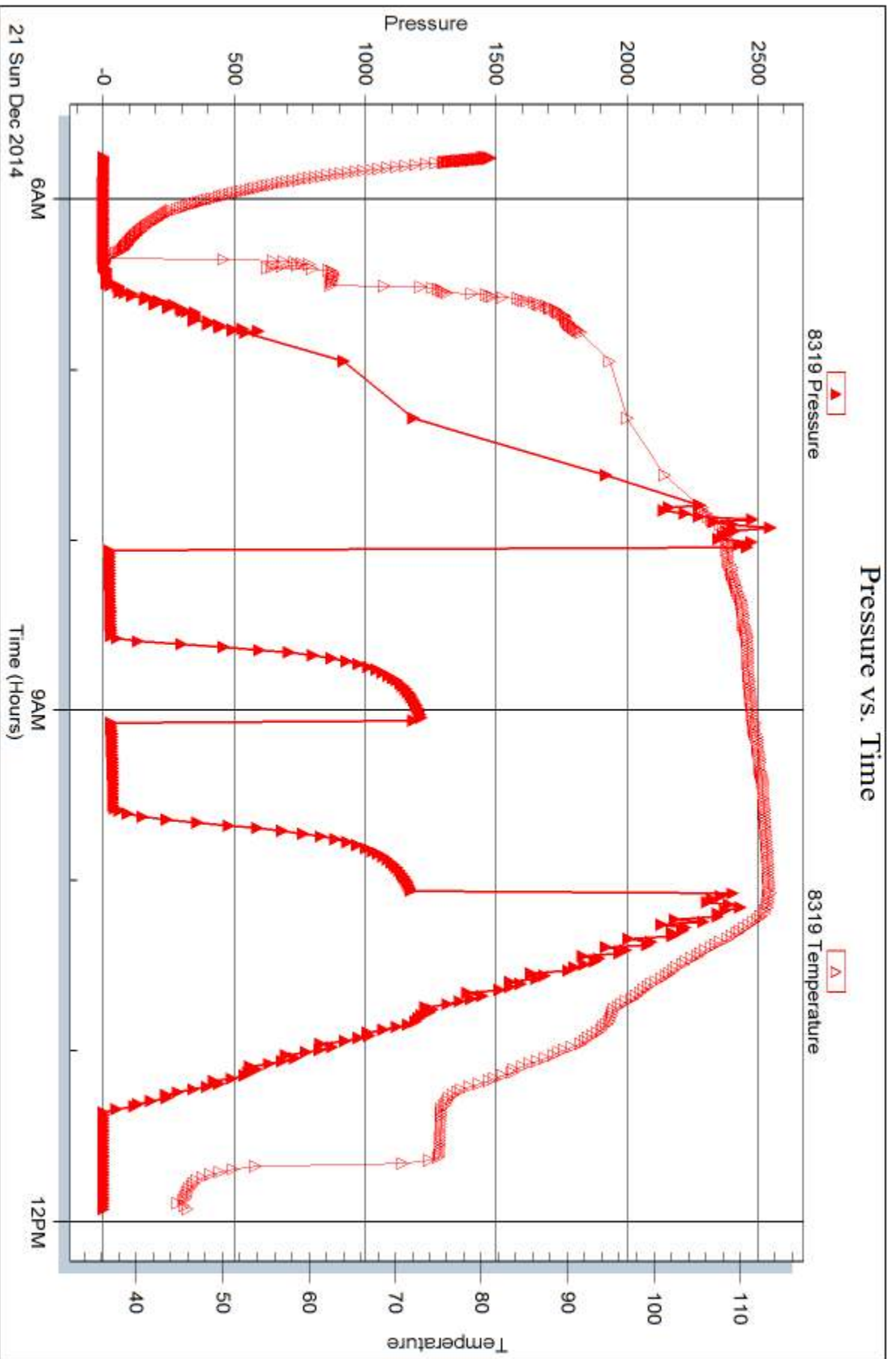
Serial #:

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 #2-5

5-23s-32w Finney,KS

Start Date: 2014.12.22 @ 10:24:00

End Date: 2014.12.22 @ 17:04:30

Job Ticket #: 61502 DST #: 3

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

Printed: 2014.12.23 @ 16:20:30



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

5-23s-32w Finney,KS

O'Brate-Finney #2-5

Job Ticket: 61502 **DST#: 3**

Test Start: 2014.12.22 @ 10:24:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:50:30

Time Test Ended: 17:04:30

Test Type: Conventional Straddle (Reset)

Tester: Justin Harris

Unit No: 58

Interval: 4660.00 ft (KB) To 4715.00 ft (KB) (TVD)

Reference Elevations: 2862.00 ft (KB)

Total Depth: 4910.00 ft (KB) (TVD)

2853.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 6625

Inside

Press@RunDepth: 93.40 psig @ 4663.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.22

End Date:

2014.12.22

Last Calib.: 2014.12.22

Start Time: 10:24:01

End Time:

17:04:30

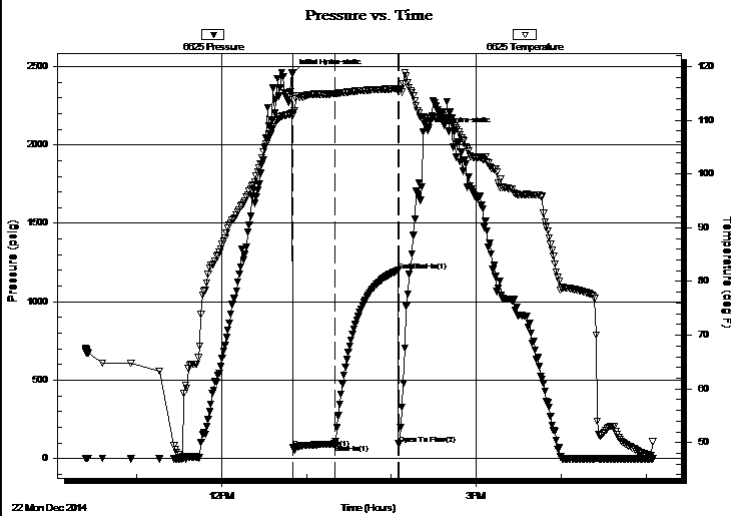
Time On Btm: 2014.12.22 @ 12:50:00

Time Off Btm: 2014.12.22 @ 14:22:30

TEST COMMENT: 30: Weak surface blow build to 10 1/2 "

45: No Return.

45: B.O.B. in 2 mins. check hole and could not fill it so i pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2457.52	111.34	Initial Hydro-static
1	68.11	110.93	Open To Flow (1)
30	93.40	114.98	Shut-In(1)
75	1199.64	115.87	End Shut-In(1)
75	93.18	115.44	Open To Flow (2)
93	2084.41	110.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2558.00	mud	35.88

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

5-23s-32w Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #2-5

Job Ticket: 61502

DST#: 3

ATTN: Kevin Timson

Test Start: 2014.12.22 @ 10:24:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:50:30

Time Test Ended: 17:04:30

Test Type: Conventional Straddle (Reset)

Tester: Justin Harris

Unit No: 58

Interval: 4660.00 ft (KB) To 4715.00 ft (KB) (TVD)

Total Depth: 4910.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2862.00 ft (KB)

2853.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8319

Outside

Press@RunDepth: psig @ 4663.00 ft (KB)

Start Date: 2014.12.22

End Date: 2014.12.22

Start Time: 10:24:01

End Time: 17:04:30

Capacity: 8000.00 psig

Last Calib.: 2014.12.22

Time On Btm:

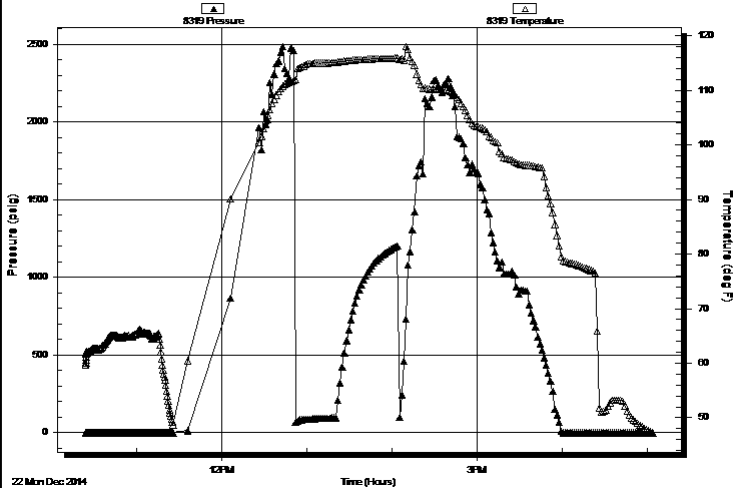
Time Off Btm:

TEST COMMENT: 30: Weak surface blow build to 10 1/2 "

45: No Return.

45: B.O.B. in 2 mins. check hole and could not fill it so i pulled tool

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2558.00	mud	35.88

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior, Inc.

5-23s-32w Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #2-5

Job Ticket: 61502

DST#: 3

ATTN: Kevin Timson

Test Start: 2014.12.22 @ 10:24:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:50:30

Time Test Ended: 17:04:30

Interval: 4660.00 ft (KB) To 4715.00 ft (KB) (TVD)

Total Depth: 4910.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Straddle (Reset)

Tester: Justin Harris

Unit No: 58

Reference Elevations: 2862.00 ft (KB)

2853.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8679

Below (Straddle)

Press@RunDepth: psig @ 4716.00 ft (KB)

Start Date: 2014.12.22

End Date: 2014.12.22

Start Time: 10:24:01

End Time: 19:34:30

Capacity: 8000.00 psig

Last Calib.: 2014.12.22

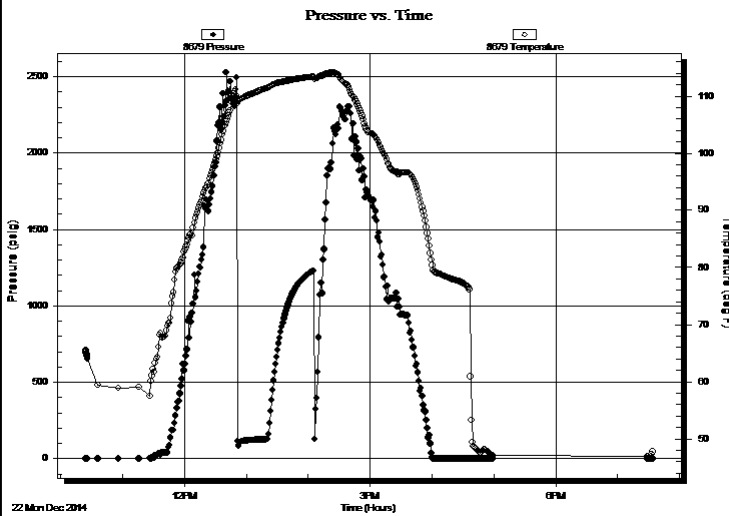
Time On Btm:

Time Off Btm:

TEST COMMENT: 30: Weak surface blow build to 10 1/2 "

45: No Return.

45: B.O.B. in 2 mins. check hole and could not fill it so i pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2558.00	mud	35.88

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.

5-23s-32w Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #2-5

Job Ticket: 61502

DST#: 3

ATTN: Kevin Timson

Test Start: 2014.12.22 @ 10:24:00

Tool Information

Drill Pipe:	Length: 4642.00 ft	Diameter: 3.80 inches	Volume: 65.12 bbl	Tool Weight: 2500.00 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: 90000.00 lb
			<u>Total Volume: 65.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4660.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	4712.00 ft			
Interval between Packers:	52.00 ft			
Tool Length:	278.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			4633.00	
Shut In Tool	5.00			4638.00	
Hydraulic tool	5.00			4643.00	
Jars	5.00			4648.00	
Safety Joint	3.00			4651.00	
Packer	5.00			4656.00	28.00 Bottom Of Top Packer
Packer	4.00			4660.00	
Stubb	1.00			4661.00	
Perforations	2.00			4663.00	
Recorder	0.00	6625	Inside	4663.00	
Recorder	0.00	8319	Outside	4663.00	
Change Over Sub	1.00			4664.00	
Drill Pipe	31.00			4695.00	
Change Over Sub	1.00			4696.00	
Perforations	15.00			4711.00	
Blank Off Sub	1.00			4712.00	52.00 Tool Interval
Packer	3.00			4715.00	
Stubb	1.00			4716.00	
Recorder	0.00	8679	Below	4716.00	
Perforations	1.00			4717.00	
Change Over Sub	1.00			4718.00	
Drill Pipe	187.00			4905.00	
Change Over Sub	1.00			4906.00	
Bullnose	4.00			4910.00	198.00 Bottom Packers & Anchor
Total Tool Length:	278.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

5-23s-32w Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #2-5

Job Ticket: 61502

DST#: 3

ATTN: Kevin Timson

Test Start: 2014.12.22 @ 10:24:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2558.00	mud	35.882

Total Length: 2558.00 ft Total Volume: 35.882 bbl

Num Fluid Samples: 0

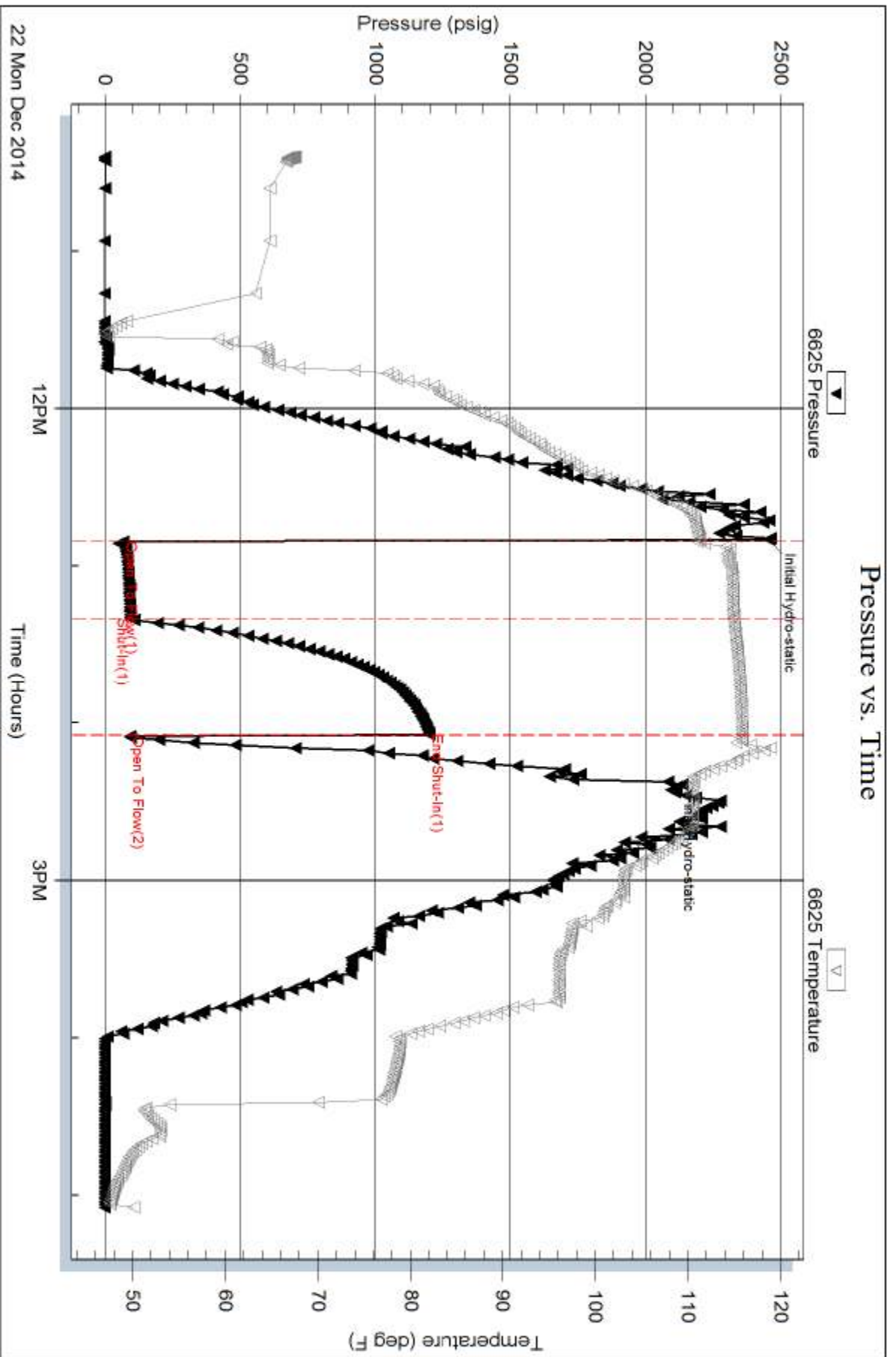
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

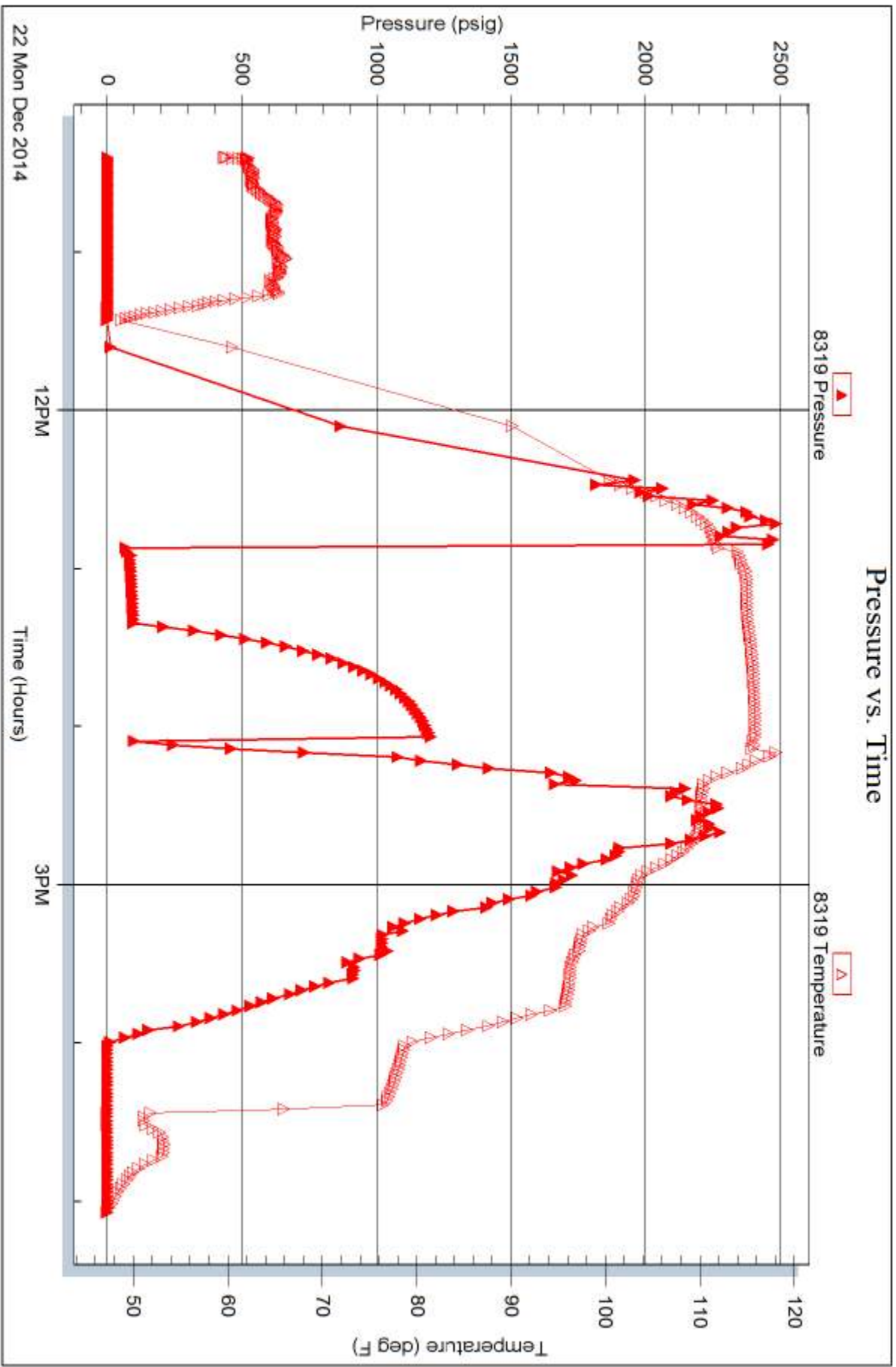


Serial #: 8319

Outside American Warrior, Inc.

O'Brate-Finney #2-5

DST Test Number: 3



22 Mon Dec 2014

12PM

Time (Hours)

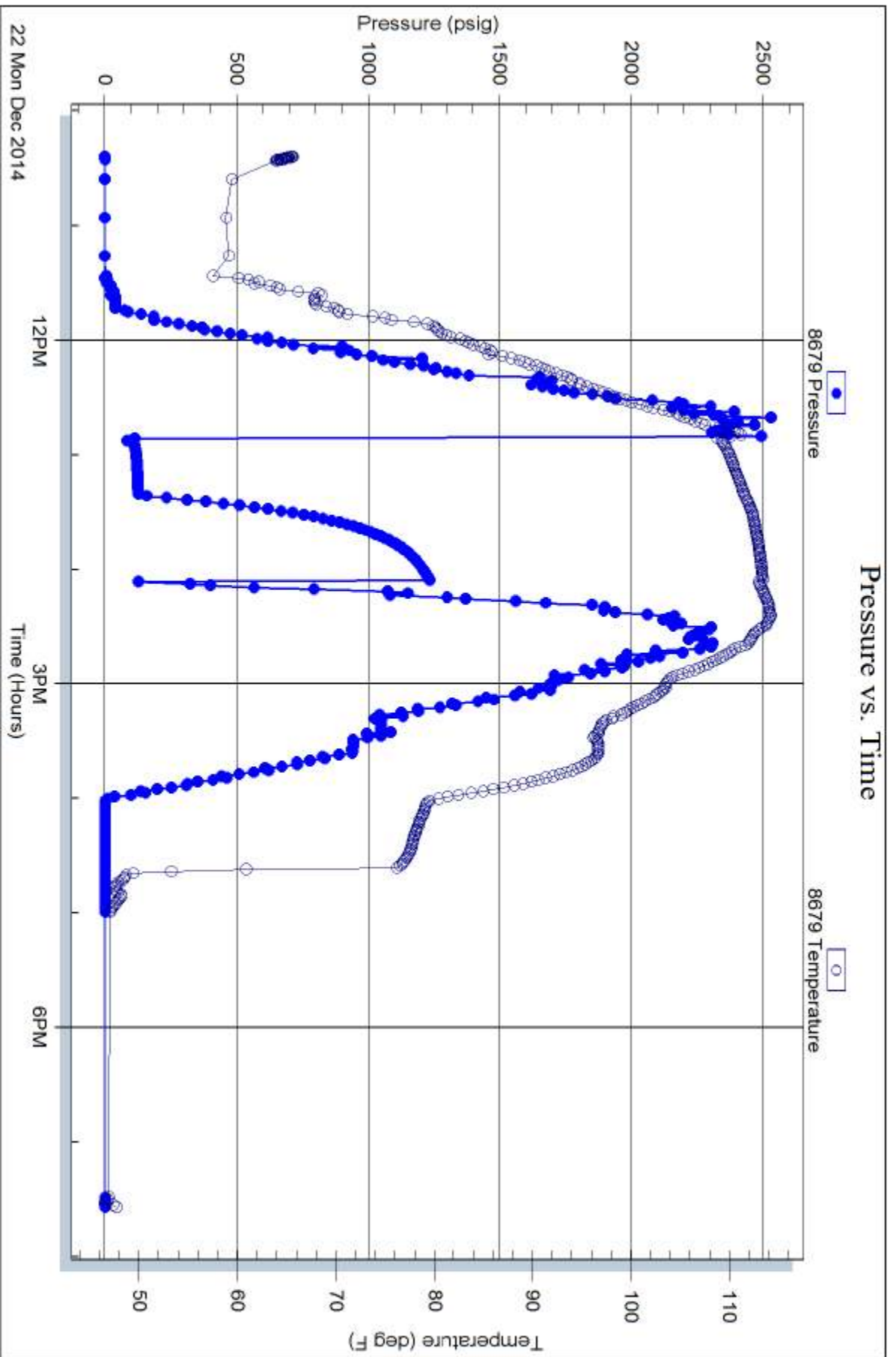
3PM

Serial #: 8679

Below (Straddle)an Warrior, Inc.

O'Brate-Finney #2-5

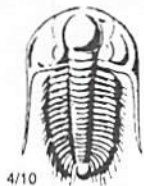
DST Test Number: 3



Tribble Testing, Inc

Ref. No: 61502

Printed: 2014, 12, 23 @ 16:20:32



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58650

Well Name & No. O'Brate - Finney #2-5 Test No. 1 Date 12/20
 Company American Warrior, Inc. Elevation 2862 KB 2853 GL
 Address 3118 Cumming RD P.O. Box 399 Garden city KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke #70
 Location: Sec. 5 Twp. 23s Rge. 32w Co. Finney State KS

Interval Tested 4750 4792 Zone Tested St. Louis
 Anchor Length 42 Drill Pipe Run 4735 Mud Wt. 9.2
 Top Packer Depth 4746 Drill Collars Run Ø Vis 50
 Bottom Packer Depth 4750 Wt. Pipe Run Ø WL 8.8
 Total Depth 4792 Chlorides 1900 ppm System LCM 3

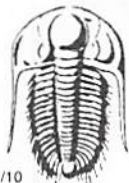
Blow Description 30 weak surface blow build to 1 1/2"
30 No Return
30 No Blow (Flush tool) blow build to 2 1/2"
30 No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>85</u>	<u>mud oil spots</u>	<u>1</u>		<u>99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 85 BHT 114 Gravity - API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 2434 Test 1250 T-On Location 13:45
 (B) First Initial Flow 21 Jars 250 T-Started 14:25
 (C) First Final Flow 32 Safety Joint 75 T-Open 17:01
 (D) Initial Shut-In 1176 Circ Sub N/C T-Pulled 19:01
 (E) Second Initial Flow 29 Hourly Standby _____ T-Out 20:54
 (F) Second Final Flow 61 Mileage 70 RT 61rt 94.55 Comments _____
 (G) Final Shut-In 1213 Sampler _____
 (H) Final Hydrostatic 2287 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1669.55
 Total 1669.55
 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. **61501**

Well Name & No. O'Boate-Finney # 2-5 Test No. 2 Date 12/21
 Company American Warrior, Inc Elevation 2862 KB 2853 GL
 Address 3118 Cumming RD P.O. Box 399 Garden city KS, 67846
 Co. Rep / Geo. _____ Rig Duke #10
 Location: Sec. 5 Twp. 23S Rge. 32W Co. Finney State KS

Interval Tested 4751 4830 Zone Tested St. Louis
 Anchor Length 79 Drill Pipe Run 4735 Mud Wt. 9.2
 Top Packer Depth 4747 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4751 Wt. Pipe Run 0 WL 8.8
 Total Depth 4830 Chlorides 1800 ppm System LCM 3

Blow Description 30 Weak surface blow build to 2"
30 No Return
30 Weak surface blow
30 No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>mud oil spots</u>		<u>1</u>		<u>99</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 35 BHT 114 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2449</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>515</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>545</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>805</u>
(D) Initial Shut-In <u>1212</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1005</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1154</u>
(F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>70 BT</u> 94.55	Comments _____
(G) Final Shut-In <u>1172</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2247</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1669.55</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____

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

Sub Total 1669.55

Approved By _____

Our Representative John Davis

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. **61502**

Well Name & No. O'Brate - Finney # 2-5 Test No. 3 Date 12/22
 Company American Warrior, Inc. Elevation 2842 KB 2853 GL
 Address 3118 Cumming RD P.O. Box 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 4660 4715 Zone Tested _____
 Anchor Length Anchor 55 195 Tall pipe Drill Pipe Run 4642 Mud Wt. 9.2
 Top Packer Depth 4656 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4660 Wt. Pipe Run 0 WL 8.8
 Total Depth 4715 Chlorides 1500 ppm System LCM 3

Blow Description 30 Vent surface flow build to 10 1/2"
45 No Return
45 B.O.B in 2 mins check hole could not fall hole
00 Then pulled it Miss Run

Rec	Feet of	%gas	%oil	%water	%mud
<u>2558</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 2558 BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2456 Test 950 T-On Location 10:20
 (B) First Initial Flow 66 Jars 250 T-Started 10:24
 (C) First Final Flow 93 Safety Joint 75 T-Open 12:50
 (D) Initial Shut-In 1194 Circ Sub 50 T-Pulled ~~10:50~~
 (E) Second Initial Flow 93 Hourly Standby _____ T-Out 17:04
 (F) Second Final Flow _____ Mileage 70 RT x 2 94.55 Comments _____
 (G) Final Shut-In _____ Sampler _____ 94.55
 (H) Final Hydrostatic 2064 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 2114.10
 Total 2114.10
 MP/DST Disc't _____

Approved By _____ Our Representative Justin Harris

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.

Date 12/23/2014 District Liberal # 21 Ticket No. 65380
 Company American Warrior Rig Duke # 10
 Lease O'BRATE-FINNEY Well No. 2-5
 County Finney State Ks
 Location _____

CEMENT DATA
 Spacer Type _____ **10 bbl water**
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

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

LEAD: Time _____ hrs. Type CLASS A
60/40, 4% GEL Excess _____
 Amt. 240 Sks Yield 1.5 ft³/sk Density 13.5 PPG
 TAIL: Time _____ hrs. Type _____

Casing Depths Top _____ Bottom 1960

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER Lead 7.5 Gal/sk Tail _____ Gal/sk Total _____ BBLs

Pump Trucks Used: 903-501
 Bulk Equipment _____
993-1066

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 _____	LIN. FT/BBL _____
Open Holes	BBLS/LIN. FT _____	LIN. FT/BBL _____
Drill Pipe	BBLS/LIN. FT <u>0.01422</u>	LIN. FT/BBL _____
Annulus	BBLS/LIN. FT <u>0.044</u>	LIN. FT/BBL _____
	BBLS/LIN. FT _____	LIN. FT/BBL _____
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 _____ Amt _____ bbls Weight _____ PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE _____ CEMENTER ALDO ESPINOZA

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
1000PM						ARRIVE TO LOCATION , DATE 12-22-14
1030PM						RIG UP
1245AM						SAFETY MEETING 12-23-14
100AM						FIRST PLUG, @ 1960FT, 10 BBL OF WATER AHEAD, 21 BBL OF SLURRY, 2 BBL OF WATER BEHAI,ND,18 BBL OF DISPLACEMENT W/MUD
155AM						SECOND PLUG@1050FT, 13 BBL OF SLURRY, 12 BBL OF DISPLACEMENT
223AM						THIRD PLUG @500FT, 10.6 BBL OF SLURRY,4.5 BBL OF DISPLACEMENT
247AM						SURFACE PLUG @ 60FT, 5 BBL OF SLURRY.
300AM						RAT HOLE, 8 BBL OF SLURRY
306AM						MOUSE HOLE, 5 BBL OF SLURRY
338AM						RIG DOWN
420AM						LEAVE LOCATION

CEMENTING LOG

Date 12/15/2014 District Liberal # 21 Ticket No. 64520
 Company American Warrior Rig Duke 10
 Lease O'Brate Finney Well No 2-5
 County Finney State Ks

Location _____
 Field _____

Casing Data Conductor PTA Squeeze Misc.
 Surface Intermediate Production Liner

Size 8 5/8 Type _____ Weight 24# Collar _____

Casing Depths Top _____ Bottom 1713

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 0.0636 LIN. FT/BBL _____
 Open Holes BBLs/LIN. FT _____ LIN. FT/BBL 13.6037
 Drill Pipe BBLs/LIN. FT _____ LIN. FT/BBL _____
 Annulus BBLs/LIN. FT _____ LIN. FT/BBL _____
 Perforations From _____ ft to _____ ft Amt _____

CEMENT DATA

Spacer Type _____ Water _____
 Amt. _____ Sks Yield _____ ft³/sk Density 8.33 PPG

LEAD: Time _____ hrs. Type Class A
6% gel, 0.5 lbs/sk flo-seal, 3% calcium chloride Excess 100%
 Amt. 625 Sks Yield 2 ft³/sk Density 12.46 PPG

TAIL: Time _____ hrs. Type Class A Common
3% calcium chloride, 0.25#/sk flo-seal Excess 100%
 Amt. 200 Sks Yield 1.2 ft³/sk Density 15.6 PPG

WATER Lead 10.9 Gal/sk Tail 5.2 Gal/sk Total 187 BBLs

Pump Trucks Used: 531-541
 Bulk Equipment 562-744
956-841

Float Equipment: Manufacturer _____
 Shoe: Type REGULAR GUIDE SHOE Depth _____
 Float: Type AFU FLOAT VALVE Depth _____
 Centralizers: Quantity 3 Plugs Top 1 Bottom _____
 Stage Collars Cement Basket
 Special Equipment _____
 Disp: Fluid Type FRESH WATER Amt 106 bbls Weight 8.33 PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE _____ CEMENTER Edgar A. Rodriguez

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
7:00 am						Got to location & spotted trucks
7:30						Rig up trucks. Rig up floor
9:20						Casing on bottom. Will stab cmt head to circulate
10:10						Performed safety meeting
10:25	1120					Pressure tested lines 1000 psi
10:35	220		5		1	Pump 5 bbls of fresh water
10:40	180		223		6	Pump 625 sks of lead cmt (223 bbls @12.5)
11:25	130		43		4.5	Pump 200 sks of tail cmt (43 bbls @15.6)
11:46						Shutdown / Drop top plug
11:49	60				6	While going in with displacement, returns very slow
11:50	280				6	Pump 106 bbls of displacement
12:07 pm	480		95		3	Slow rate to bump plug
12:09	300		106		3	Bumped plug. Landed at 300 psi and took up to 840 psi
12:11						Check floats. 1/4 of bbl back. No cement returns
12:13						As soon as we stopped pumping fluid dropping in the cellar.
						We will pump more cement to fill up
6:10						Arrive on location with more cement
6:40	80		21		3	Pump 100 sks of Class A Neat cement with 2% calcium chloride (21 bbls @15.6)
6:50						Cement back to surface in cellar.
6:52						Wash trucks and lines while we monitor if cement is dropping
8:25						Cement has dropped about 1" will keep an eye on it
8:45						Cement has dropped about 3 inches now
11:10	80		10.6		2	Pump 50 sks of Class A Neat cement with 2% calcium chloride (10.6 bbls @15.6)
11:23						Cement dropped a little. Wait to see how much it falls
12:22	80		10.6		2	Pump 50 sks of Class A Neat cement with 2% calcium chloride (10.6 bbls @15.6)
12:35						Cement not dropping. Will wait to see if it holds
2:55						Cement did not drop. End job

FINAL DISP. PRESS. 300 PSI BUMP PLUG TO 840 PSI BLEEDBACK 1/4 BBLs THANK YOU