



DRILL STEM TEST REPORT

Prepared For: **American Warrior inc.**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Fredericks #1-24

24-18s-22w Ness,KS

Start Date: 2014.01.08 @ 11:50:01

End Date: 2014.01.08 @ 16:53:30

Job Ticket #: 54886 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.10 @ 08:37:08



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54886

DST#: 1

ATTN: Jason Alm

Test Start: 2014.01.08 @ 11:50:01

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:40:00

Time Test Ended: 16:53:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 68

Interval: 4209.00 ft (KB) To 4266.00 ft (KB) (TVD)

Total Depth: 4266.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2175.00 ft (KB)

2169.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8372 Inside

Press@RunDepth: 33.78 psig @ 4216.00 ft (KB)

Start Date: 2014.01.08

End Date:

2014.01.08

Start Time: 11:50:01

End Time:

16:53:30

Capacity: 8000.00 psig

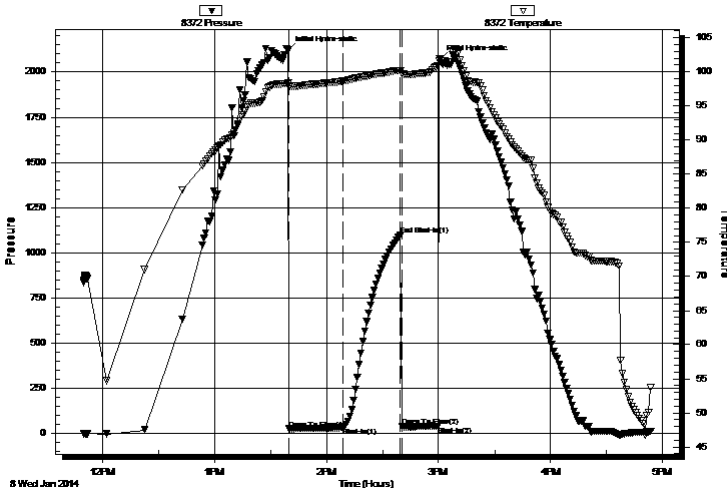
Last Calib.: 2014.01.08

Time On Btm: 2014.01.08 @ 13:39:30

Time Off Btm: 2014.01.08 @ 15:00:30

TEST COMMENT: IF:(30min) 1/2" blow
IS:(30min) No Return
FF:(20min) Surface blow - Pull Tool

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.79	98.33	Initial Hydro-static
1	26.47	97.85	Open To Flow (1)
30	33.78	98.66	Shut-In(1)
60	1098.70	100.24	End Shut-In(1)
61	38.56	99.79	Open To Flow (2)
80	42.73	100.91	Shut-In(2)
81	2070.85	101.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOSM	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TESTING, INC.

DRILL STEM TEST REPORT

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54886

DST#: 1

ATTN: Jason Alm

Test Start: 2014.01.08 @ 11:50:01

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Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:40:00

Time Test Ended: 16:53:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 68

Interval: 4209.00 ft (KB) To 4266.00 ft (KB) (TVD)

Total Depth: 4266.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2175.00 ft (KB)

2169.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8321 Outside

Press@RunDepth: psig @ 4216.00 ft (KB)

Start Date: 2014.01.08

End Date:

2014.01.08

Start Time: 11:50:01

End Time:

16:53:30

Capacity: 8000.00 psig

Last Calib.:

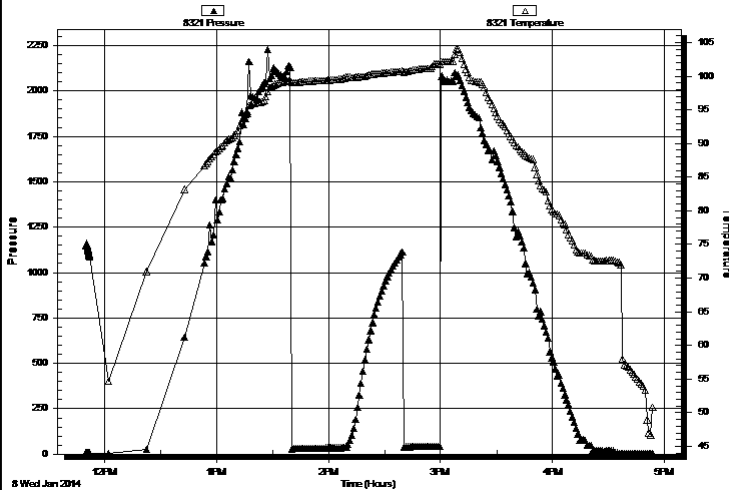
2014.01.08

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:(30min) 1/2" blow
IS:(30min) No Return
FF:(20min) Surface blow - Pull Tool

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
10.00	SOSM	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54886

DST#: 1

ATTN: Jason Alm

Test Start: 2014.01.08 @ 11:50:01

Tool Information

Drill Pipe:	Length:	4092.00 ft	Diameter:	3.80 inches	Volume:	57.40 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length:	118.98 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	57.99 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		29.98 ft					String Weight: Initial	64000.00 lb
Depth to Top Packer:		4209.00 ft					Final	64000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		57.00 ft						
Tool Length:		85.00 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			4182.00	
Shut In Tool	5.00			4187.00	
Hydraulic tool	5.00			4192.00	
Jars	5.00			4197.00	
Safety Joint	3.00			4200.00	
Packer	5.00			4205.00	28.00 Bottom Of Top Packer
Packer	4.00			4209.00	
Stubb	1.00			4210.00	
Perforations	5.00			4215.00	
Change Over Sub	1.00			4216.00	
Recorder	0.00	8372	Inside	4216.00	
Recorder	0.00	8321	Outside	4216.00	
Drill Pipe	32.00			4248.00	
Change Over Sub	1.00			4249.00	
Perforations	14.00			4263.00	
Bullnose	3.00			4266.00	57.00 Bottom Packers & Anchor
Total Tool Length:	85.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54886

DST#: 1

ATTN: Jason Alm

Test Start: 2014.01.08 @ 11:50:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 66.00 sec/qt

Water Loss: 6.78 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOSM	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

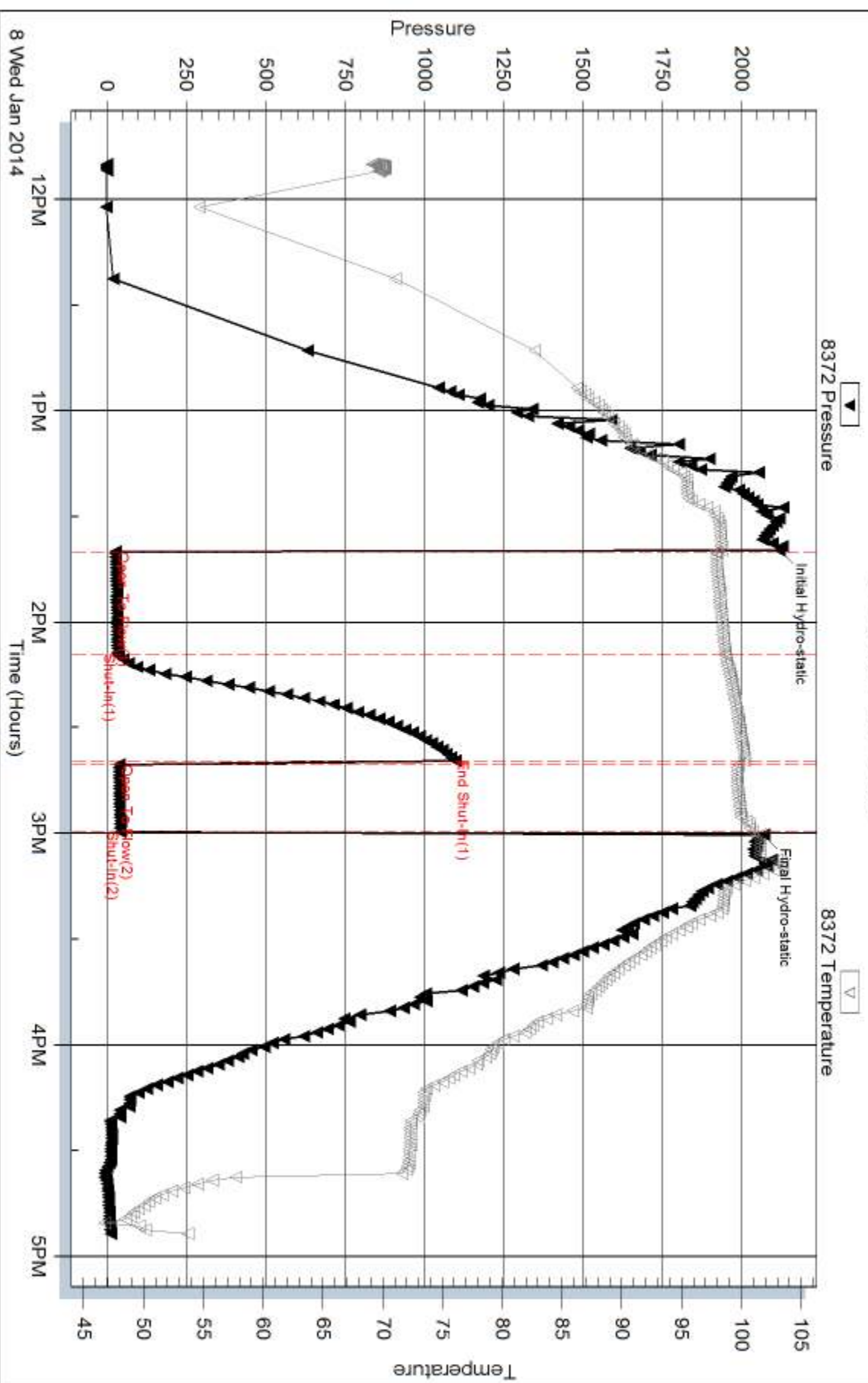
Inside

American Warrior Inc.

Fredericks #1-24

DST Test Number: 1

Pressure vs. Time

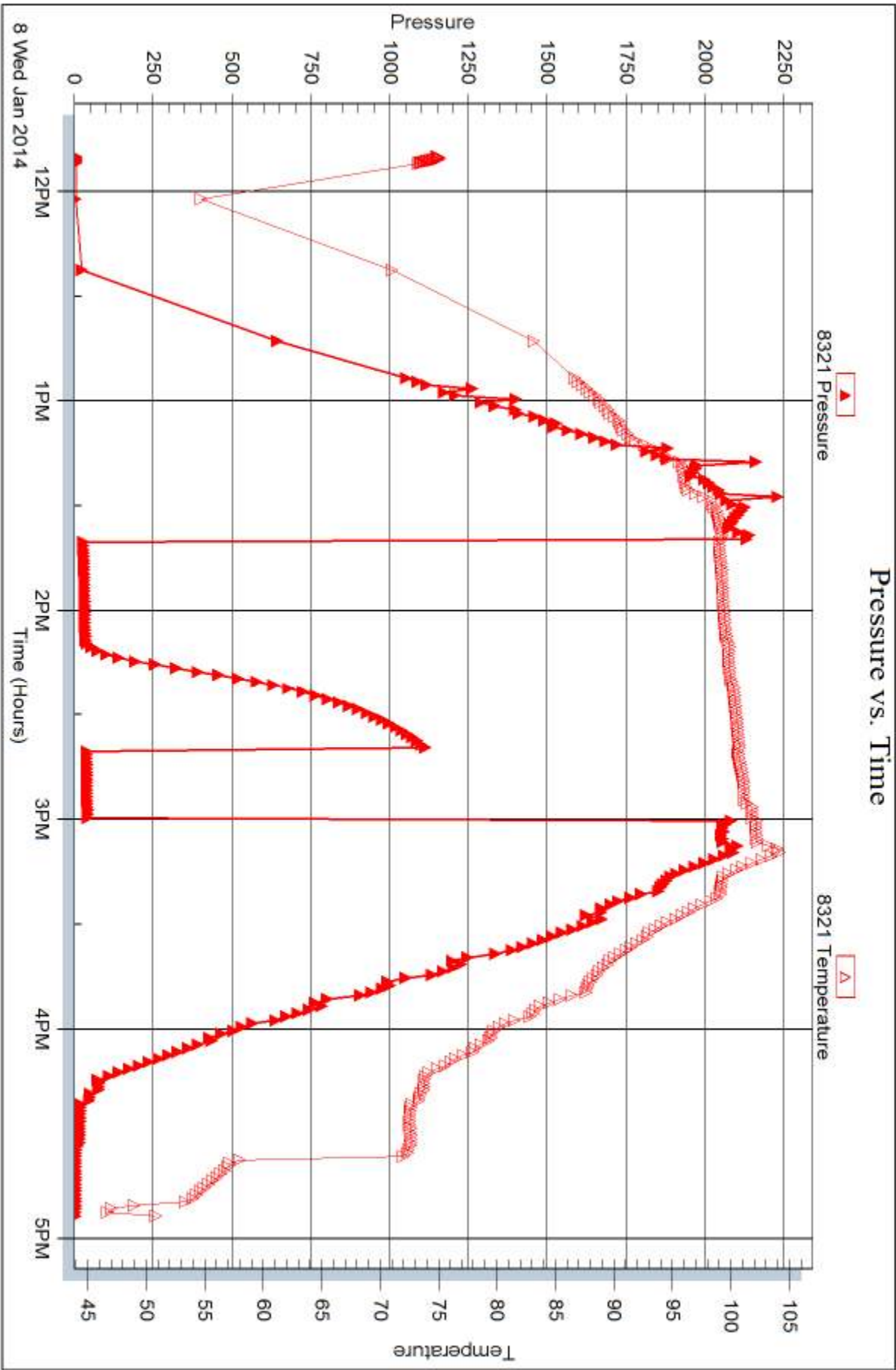


Serial #: 8321

Outside American Warrior Inc.

Fredericks #1-24

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **American Warrior inc.**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Fredericks #1-24

24-18s-22w Ness,KS

Start Date: 2014.01.09 @ 23:00:01

End Date: 2014.01.10 @ 04:39:30

Job Ticket #: 54887 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.10 @ 08:36:27



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54887

DST#: 2

ATTN: Jason Alm

Test Start: 2014.01.09 @ 23:00:01

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:36:30

Time Test Ended: 04:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 68

Interval: 4266.00 ft (KB) To 4275.00 ft (KB) (TVD)

Reference Elevations: 2175.00 ft (KB)

Total Depth: 4275.00 ft (KB) (TVD)

2169.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 6.00 ft

Serial #: 8372 Inside

Press@RunDepth: 236.04 psig @ 4267.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.09

End Date:

2014.01.10

Last Calib.: 2014.01.09

Start Time: 23:00:01

End Time:

04:39:30

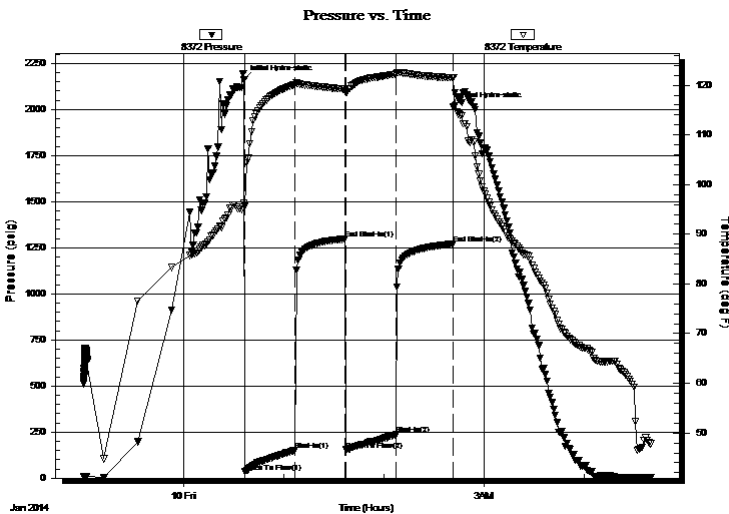
Time On Btm: 2014.01.10 @ 00:36:00

Time Off Btm: 2014.01.10 @ 02:41:30

TEST COMMENT: IF:(30min) BOB in 12 min.
ISl:(30min) No Return
FF:(30min) BOB in 15 min.
FSl:(30min) No Return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.04	96.20	Initial Hydro-static
1	33.41	95.65	Open To Flow (1)
31	150.47	120.14	Shut-In(1)
61	1297.92	119.22	End Shut-In(1)
61	153.43	118.51	Open To Flow (2)
91	236.04	122.23	Shut-In(2)
125	1270.93	121.48	End Shut-In(2)
126	2013.27	121.55	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
470.00	MW m=5% w=95%	5.51

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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DRILL STEM TEST REPORT

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54887

DST#: 2

ATTN: Jason Alm

Test Start: 2014.01.09 @ 23:00:01

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:36:30

Time Test Ended: 04:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 68

Interval: 4266.00 ft (KB) To 4275.00 ft (KB) (TVD)

Total Depth: 4275.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2175.00 ft (KB)

2169.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8321 Outside

Press@RunDepth: psig @ 4267.00 ft (KB)

Start Date: 2014.01.09

End Date:

2014.01.10

Start Time: 23:00:01

End Time:

04:39:30

Capacity: 8000.00 psig

Last Calib.:

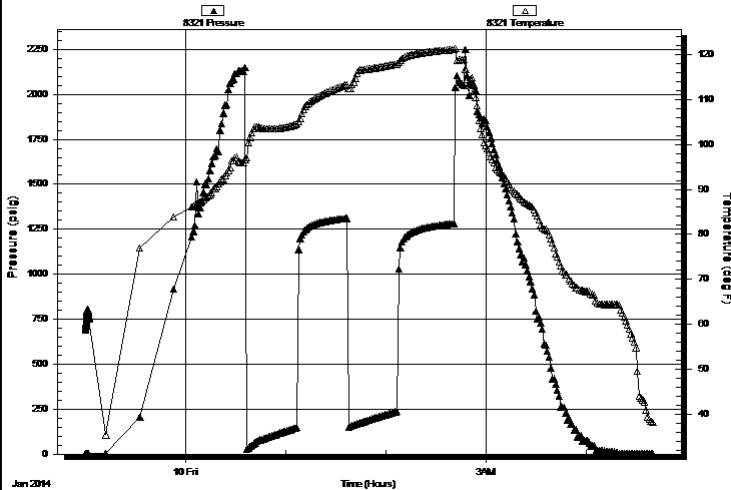
2014.01.09

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:(30min) BOB in 12 min.
IS:(30min) No Return
FF:(30min) BOB in 15 min.
FS:(30min) No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
470.00	MW m=5% w=95%	5.51

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54887

DST#: 2

ATTN: Jason Alm

Test Start: 2014.01.09 @ 23:00:01

Tool Information

Drill Pipe:	Length:	4924.00 ft	Diameter:	3.80 inches	Volume:	69.07 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length:	118.98 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:	76000.00 lb
					Total Volume:	69.66 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		804.98 ft					String Weight: Initial	64000.00 lb
Depth to Top Packer:		4266.00 ft					Final	67000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		9.00 ft						
Tool Length:		37.00 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			4239.00	
Shut In Tool	5.00			4244.00	
Hydraulic tool	5.00			4249.00	
Jars	5.00			4254.00	
Safety Joint	3.00			4257.00	
Packer	5.00			4262.00	28.00 Bottom Of Top Packer
Packer	4.00			4266.00	
Stubb	1.00			4267.00	
Recorder	0.00	8372	Inside	4267.00	
Recorder	0.00	8321	Outside	4267.00	
Perforations	5.00			4272.00	
Bullnose	3.00			4275.00	9.00 Bottom Packers & Anchor

Total Tool Length: 37.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior inc.

24-18s-22w Ness, KS

PO Box 399
Garden City KS 67846

Fredericks #1-24

Job Ticket: 54887

DST#: 2

ATTN: Jason Alm

Test Start: 2014.01.09 @ 23:00:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 66.00 sec/qt

Water Loss: 6.78 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 40000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
470.00	MW m=5% w =95%	5.509

Total Length: 470.00 ft

Total Volume: 5.509 bbl

Num Fluid Samples: 0

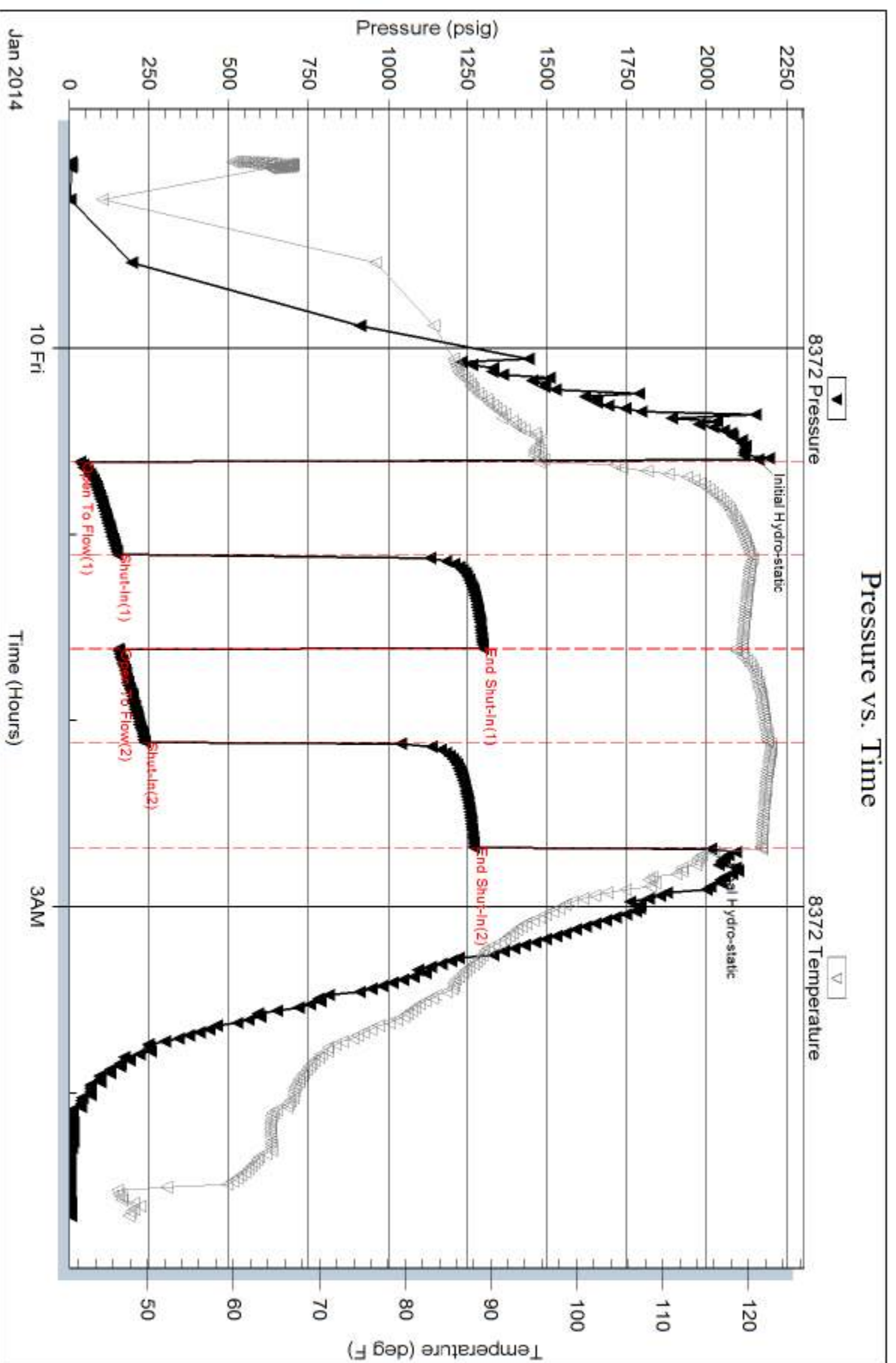
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

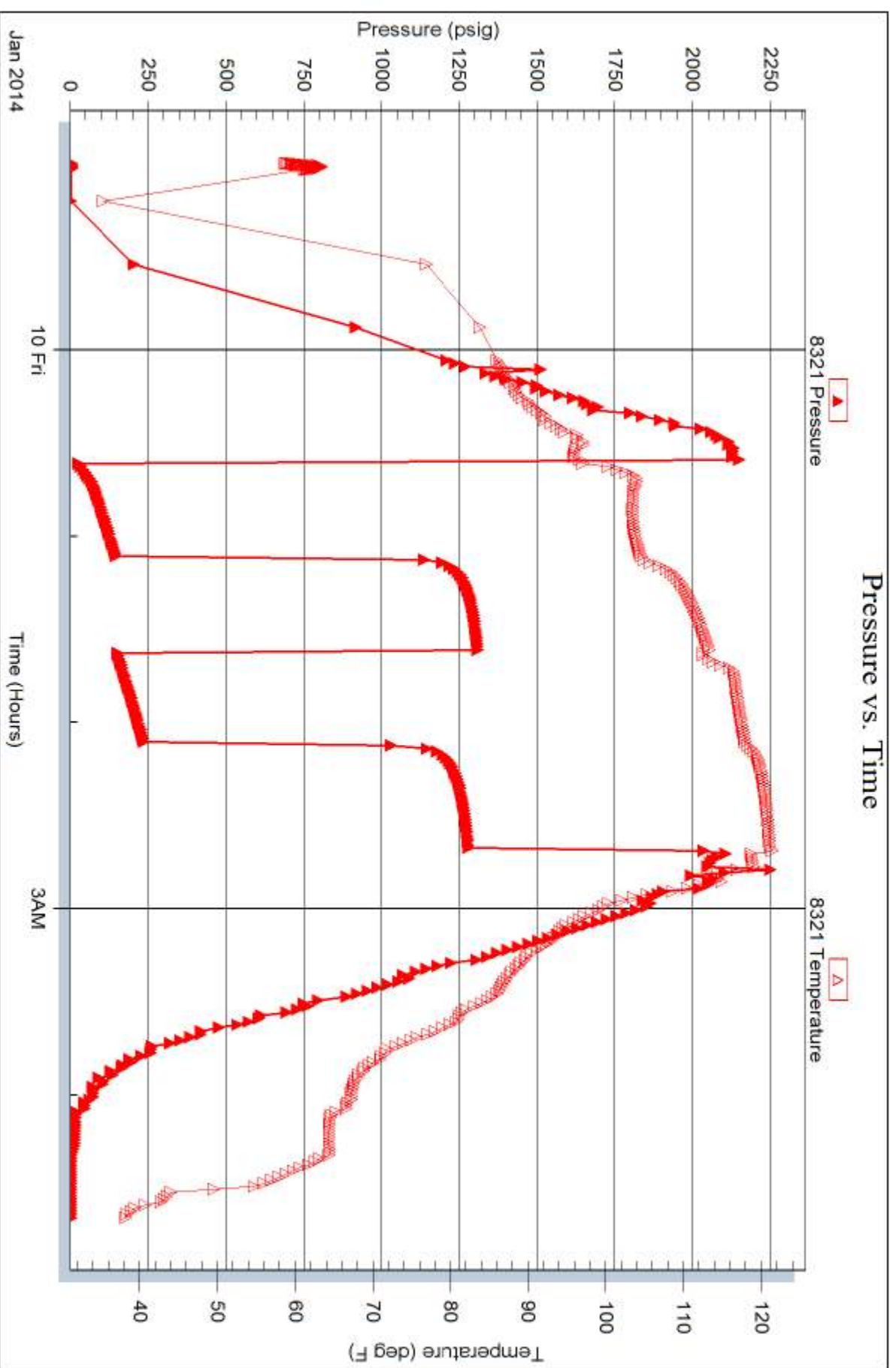
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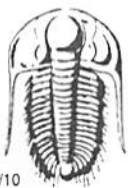


Outside American Warrior inc.

Fredericks #1-24

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54886**

Well Name & No. FREDERICKS #1-24 Test No. 1 Date 1-8-14
 Company AMERICAN WARRIOR INC. Elevation 2175 KB 2169 GL
 Address PO BOX 399 Garden City KS. 67846
 Co. Rep / Geo. JEFF ALM Rig PETROMARK RIG 1
 Location: Sec. 24 Twp. 18S Rge. 22W Co. NESS State KS.

Interval Tested 4209-4266 Zone Tested MISS
 Anchor Length 57' Drill Pipe Run 4092 Mud Wt. 9.3
 Top Packer Depth 4204 Drill Collars Run 118.98 Vis 66
 Bottom Packer Depth 4209 Wt. Pipe Run 0 WL 6.8
 Total Depth 4266 Chlorides 7000 ppm System LCM 0

Blow Description ISI: 2" blow
ISI: NO RETURN
FF: SURFACE blow - pull too
FSI:

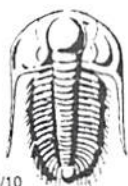
Rec <u>10</u>	Feet of <u>505m</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2120 ☒ Test 1250 T-On Location 10:06
 (B) First Initial Flow 26 ☒ Jars 250 T-Started 11:50
 (C) First Final Flow 33 ☒ Safety Joint 75 T-Open 13:40
 (D) Initial Shut-In 1098 ☐ Circ Sub _____ T-Pulled 15:00
 (E) Second Initial Flow 38 ☐ Hourly Standby _____ T-Out 16:55
 (F) Second Final Flow 42 ☒ Mileage 112RT 173.60 Comments _____
 (G) Final Shut-In _____ ☐ Sampler _____
 (H) Final Hydrostatic 2070 ☐ Straddle _____

Initial Open 30 ☐ Ruined Shale Packer _____
 Initial Shut-In 30 ☐ Ruined Packer _____
 Final Flow 20 ☐ Extra Copies _____
 Final Shut-In _____ ☐ Extra Recorder _____ Sub Total 0
☐ Day Standby _____ Total 1748.60
☐ Accessibility _____ MP/DST Disc't _____
 Sub Total 1748.60

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. 54887

Well Name & No. FREEDERICKS #1-24 Test No. 2 Date 1-8-14
Company AMERICAN WARRIOR INC Elevation 2175 KB 2169 GL
Address PO BOX 399 GARDEN CITY KS. 67846
Co. Rep / Geo. JASON N/m Rig PETROMARK #1
Location: Sec. 24 Twp. 18S Rge. 22W Co. NESS State Ks.

Interval Tested 4266-4275 Zone Tested MISSISSIPPIAN
Anchor Length 9' Drill Pipe Run 4924 Mud Wt. 9.3
Top Packer Depth 4261 Drill Collars Run 118.98 Vis 66
Bottom Packer Depth 4266 Wt. Pipe Run 0 WL 6.8
Total Depth 4275 Chlorides 7000 ppm System LCM 0

Blow Description IFI BOB IN 12 MIN
ISI: NO RETURN
FFI BOB IN 15 MIN
FSI: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>470</u>	<u>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	Feet of	%gas	%oil	%water	%mud
Rec Total	<u>470</u>	BHT <u>121°</u>	Gravity	API RW <u>.34</u> @ <u>34°</u> F	Chlorides <u>40000</u> ppm

(A) Initial Hydrostatic	<u>2162</u>	☒ Test	<u>1250</u>	T-On Location	<u>21:45</u>
(B) First Initial Flow	<u>33</u>	☒ Jars	<u>250</u>	T-Started	<u>23:00</u>
(C) First Final Flow	<u>150</u>	☒ Safety Joint	<u>75</u>	T-Open	<u>00:37</u>
(D) Initial Shut-In	<u>1297</u>	☐ Circ Sub		T-Pulled	<u>02:37</u>
(E) Second Initial Flow	<u>153</u>	☐ Hourly Standby		T-Out	<u>04:40</u>
(F) Second Final Flow	<u>230</u>	☒ Mileage <u>112RT</u>	<u>173.60</u>	Comments	
(G) Final Shut-In	<u>1270</u>	☐ Sampler			
(H) Final Hydrostatic	<u>2013</u>	☐ Straddle			

Initial Open	<u>30</u>	☐ Ruined Shale Packer	
Initial Shut-In	<u>30</u>	☐ Ruined Packer	
Final Flow	<u>30</u>	☐ Extra Copies	
Final Shut-In	<u>30</u>	Sub Total	<u>0</u>
		Total	<u>1748.60</u>
		MP/DST Disc't	
		Sub Total	<u>1748.60</u>

Approved By _____ Our Representative Randy Carr

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.