



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City ,KS 67846

ATTN: Kevin Timpson

**Lee #4-28**

**28-25s-36w Kearny,KS**

Start Date: 2015.01.28 @ 21:31:11

End Date: 2015.01.29 @ 05:35:11

Job Ticket #: 61465                      DST #: 1

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

Printed: 2015.02.02 @ 15:12:36



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**28-25s-36w Kearny,KS**

**Lee #4-28**

Job Ticket: 61465      **DST#: 1**  
 Test Start: 2015.01.28 @ 21:31:11

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:52:56  
 Time Test Ended: 05:35:11  
 Interval: **4284.00 ft (KB) To 4367.00 ft (KB) (TVD)**  
 Total Depth: 4367.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane McBride  
 Unit No: 85  
 Reference Elevations: 3064.00 ft (KB)  
 3053.00 ft (CF)  
 KB to GR/CF: 11.00 ft

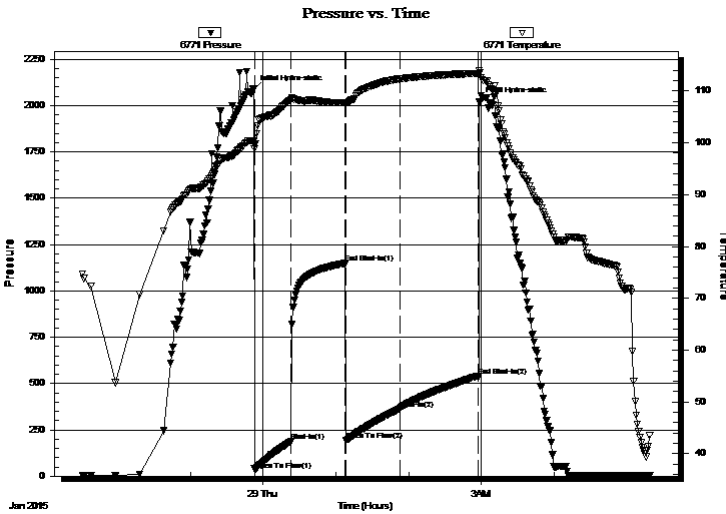
## Serial #: 6771

**Outside**

Press@RunDepth: 363.85 psig @ 4285.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2015.01.28      End Date: 2015.01.29      Last Calib.: 2015.01.29  
 Start Time: 21:31:11      End Time: 05:19:11      Time On Btm: 2015.01.28 @ 23:52:26  
 Time Off Btm: 2015.01.29 @ 02:57:56

TEST COMMENT: B.O.B. in 10 min.  
 No return  
 B.O.B. in 13 min.  
 10" return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.43	100.28	Initial Hydro-static
1	33.26	99.82	Open To Flow (1)
31	187.12	108.38	Shut-In(1)
76	1148.42	107.76	End Shut-In(1)
76	192.90	107.41	Open To Flow (2)
121	363.85	112.36	Shut-In(2)
185	541.27	113.41	End Shut-In(2)
186	2021.52	113.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
113.00	w c m 45% w 55% m	1.59
186.00	m c w 30% m 70% w	2.61
186.00	s m c w 5% m 95% w	2.61
651.00	water 100% w	9.13

## Gas Rates

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



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# DRILL STEM TEST REPORT

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

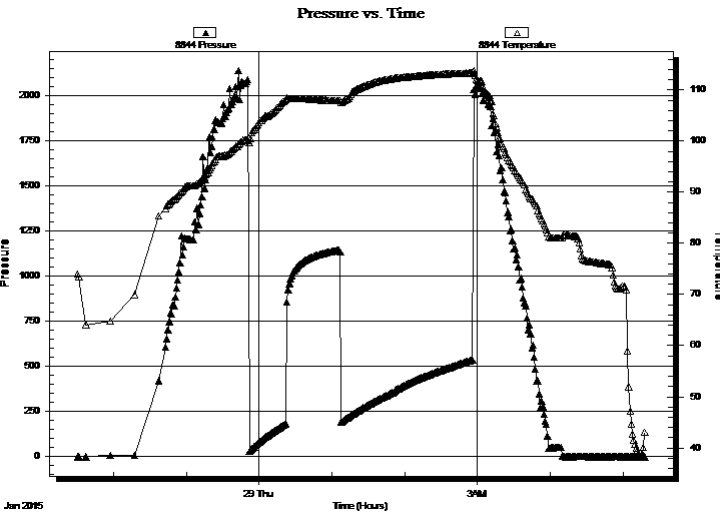
**28-25s-36w Kearny,KS**  
**Lee #4-28**  
 Job Ticket: 61465 **DST#: 1**  
 Test Start: 2015.01.28 @ 21:31:11

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:52:56  
 Time Test Ended: 05:35:11  
 Interval: **4284.00 ft (KB) To 4367.00 ft (KB) (TVD)**  
 Total Depth: 4367.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane McBride  
 Unit No: 85  
 Reference Elevations: 3064.00 ft (KB)  
 3053.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8844 Inside**  
 Press@RunDepth: psig @ 4285.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.01.28 End Date: 2015.01.29 Last Calib.: 2015.01.29  
 Start Time: 21:30:19 End Time: 05:17:49 Time On Btm:  
 Time Off Btm:

TEST COMMENT: B.O.B. in 10 min.  
 No return  
 B.O.B. in 13 min.  
 10" return blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
113.00	w c m 45%w 55%m	1.59
186.00	m c w 30%m 70%w	2.61
186.00	s m c w 5%m 95%w	2.61
651.00	water 100%w	9.13

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**28-25s-36w Kearny,KS**  
**Lee #4-28**  
 Job Ticket: 61465 **DST#: 1**  
 Test Start: 2015.01.28 @ 21:31:11

**Tool Information**

Drill Pipe:	Length: 4264.00 ft	Diameter: 3.80 inches	Volume: 59.81 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 59.81 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4284.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	83.00 ft				
Tool Length:	111.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

**Tool Description**

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4257.00	
Shut In Tool	5.00			4262.00	
Hydraulic tool	5.00			4267.00	
Jars	5.00			4272.00	
Safety Joint	3.00			4275.00	
Packer	5.00			4280.00	28.00 Bottom Of Top Packer
Packer	4.00			4284.00	
Stubb	1.00			4285.00	
Recorder	0.00	6771	Outside	4285.00	
Recorder	0.00	8844	Inside	4285.00	
Perforations	12.00			4297.00	
Change Over Sub	1.00			4298.00	
Drill Pipe	63.00			4361.00	
Change Over Sub	1.00			4362.00	
Bullnose	5.00			4367.00	83.00 Bottom Packers & Anchor

**Total Tool Length: 111.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**28-25s-36w Kearny,KS**  
**Lee #4-28**  
Job Ticket: 61465      **DST#: 1**  
Test Start: 2015.01.28 @ 21:31:11

## Mud and Cushion Information

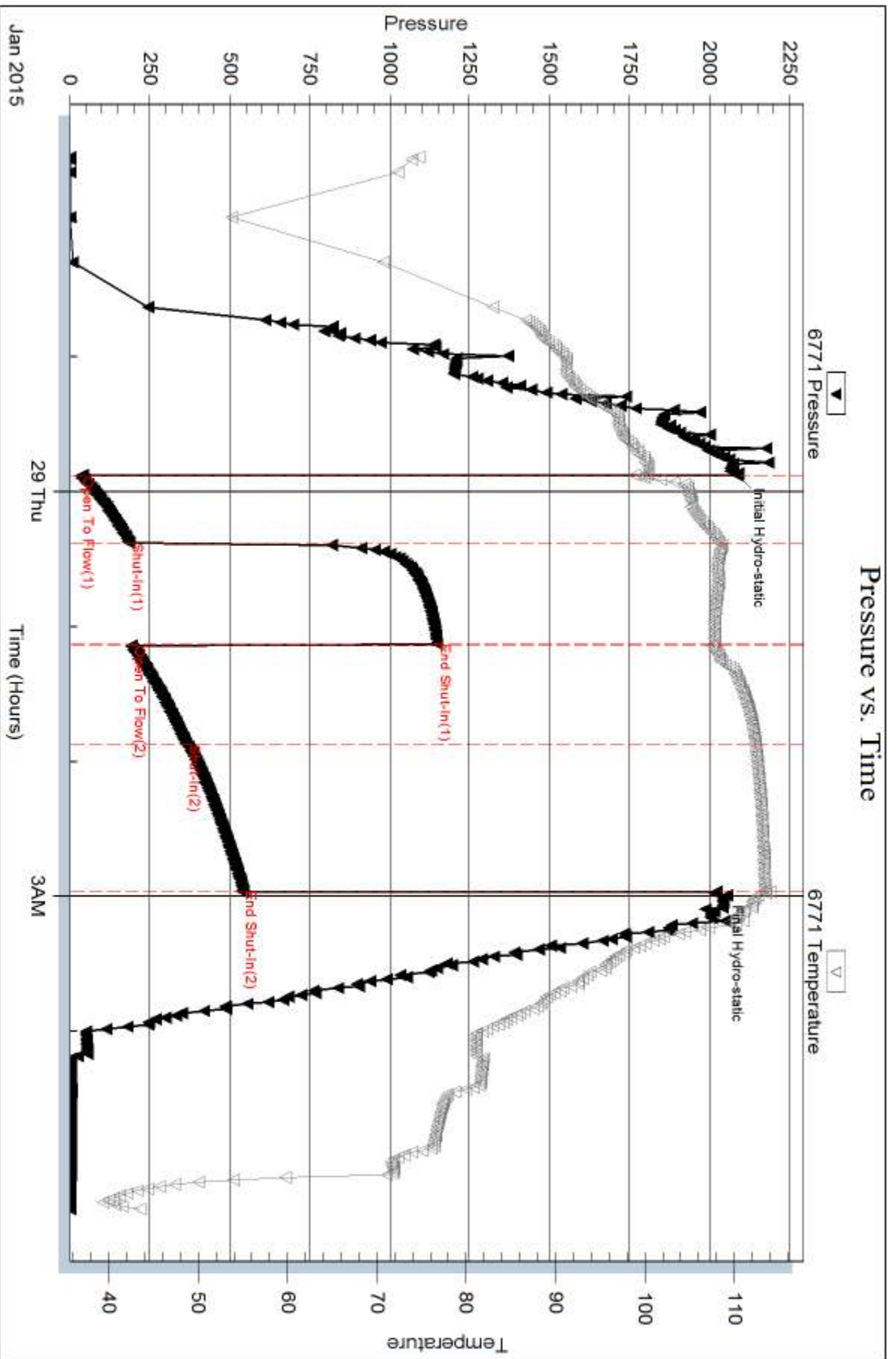
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 21000 ppm
Viscosity: 43.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.95 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 950.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
113.00	w c m45%w 55%m	1.585
186.00	m c w 30%m 70%w	2.609
186.00	s m c w 5%m 95%w	2.609
651.00	w ater 100%w	9.132

Total Length: 1136.00 ft      Total Volume: 15.935 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: rw .402 @ 55\*f = 21,000 chlor



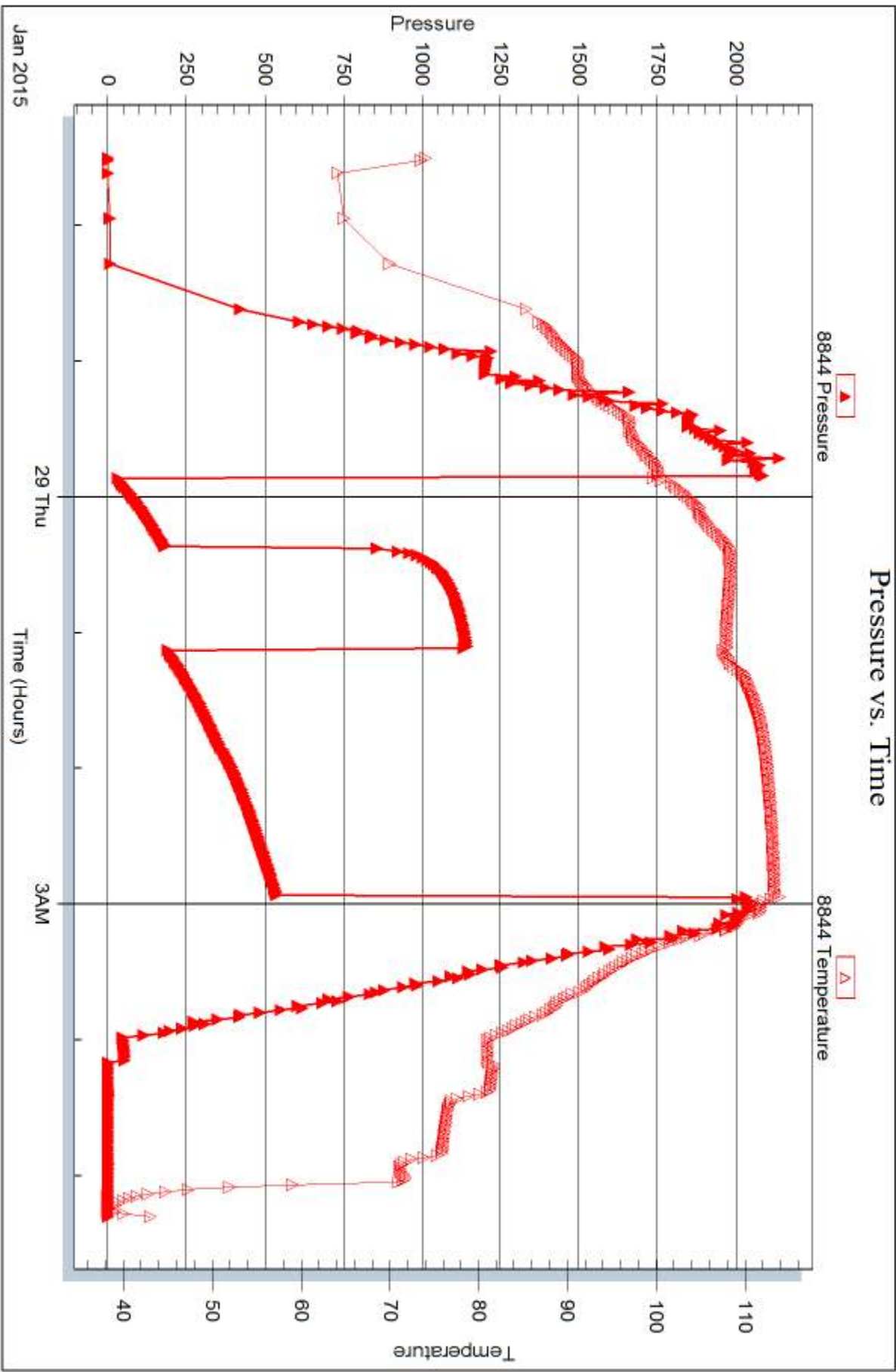
Serial #: 8844

Inside

American Warrior Inc

Lee #4-28

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 61465

Printed: 2015.02.02 @ 15:12:37



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City ,KS 67846

ATTN: Kevin Timpson

**Lee #4-28**

**28-25s-36w Kearny,KS**

Start Date: 2015.01.30 @ 21:58:15

End Date: 2015.01.31 @ 04:28:45

Job Ticket #: 58570                      DST #: 2

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

Printed: 2015.02.02 @ 15:19:06

American Warrior Inc  
28-25s-36w Kearny,KS  
Lee #4-28  
DST # 2  
St. Louis "A"  
2015.01.30





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**28-25s-36w Kearny,KS**

**Lee #4-28**

Job Ticket: 58570

**DST#: 2**

Test Start: 2015.01.30 @ 21:58:15

## GENERAL INFORMATION:

Formation: **St. Loius "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:51:00

Time Test Ended: 04:28:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

**Interval: 4824.00 ft (KB) To 4836.00 ft (KB) (TVD)**

Reference Elevations: 3064.00 ft (KB)

Total Depth: 4836.00 ft (KB) (TVD)

3053.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8846**

**Inside**

Press@RunDepth: 46.64 psig @ 4831.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.30

End Date:

2015.01.31

Last Calib.: 2015.01.31

Start Time: 21:58:15

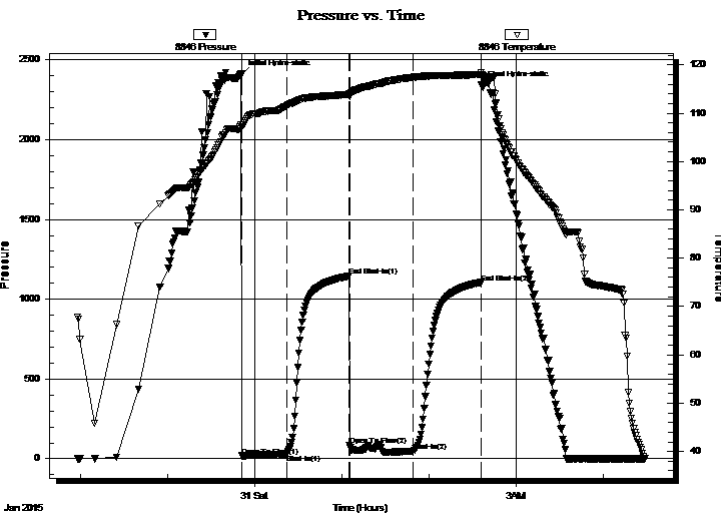
End Time:

04:28:45

Time On Btm: 2015.01.30 @ 23:50:45

Time Off Btm: 2015.01.31 @ 02:35:45

TEST COMMENT: IF:Built to 5" blow  
 IS:No return blow  
 FF:BOB in 41 min.  
 FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2411.25	107.59	Initial Hydro-static
1	18.56	107.03	Open To Flow (1)
32	28.43	111.50	Shut-In(1)
75	1145.46	113.92	End Shut-In(1)
75	84.70	113.45	Open To Flow (2)
119	46.64	117.42	Shut-In(2)
165	1105.37	117.98	End Shut-In(2)
165	2342.19	118.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 92 feet	0.00
92.00	gcmo 20%g 30%m 50%o (Thick Oil)	1.29

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**28-25s-36w Kearny,KS**  
**Lee #4-28**  
Job Ticket: 58570      **DST#: 2**  
Test Start: 2015.01.30 @ 21:58:15

**Tool Information**

Drill Pipe:	Length: 4802.00 ft	Diameter: 3.80 inches	Volume: 67.36 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 67.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4824.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	40.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4797.00	
Shut In Tool	5.00			4802.00	
Hydraulic tool	5.00			4807.00	
Jars	5.00			4812.00	
Safety Joint	3.00			4815.00	
Packer	5.00			4820.00	28.00      Bottom Of Top Packer
Packer	4.00			4824.00	
Stubb	1.00			4825.00	
Perforations	6.00			4831.00	
Recorder	0.00	8846	Inside	4831.00	
Recorder	0.00	8737	Outside	4831.00	
Bullnose	5.00			4836.00	12.00      Bottom Packers & Anchor

**Total Tool Length: 40.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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PO Box 399  
Garden City ,KS 67846  
ATTN: Kevin Timpson

**28-25s-36w Kearny,KS**  
**Lee #4-28**  
Job Ticket: 58570      **DST#: 2**  
Test Start: 2015.01.30 @ 21:58:15

## Mud and Cushion Information

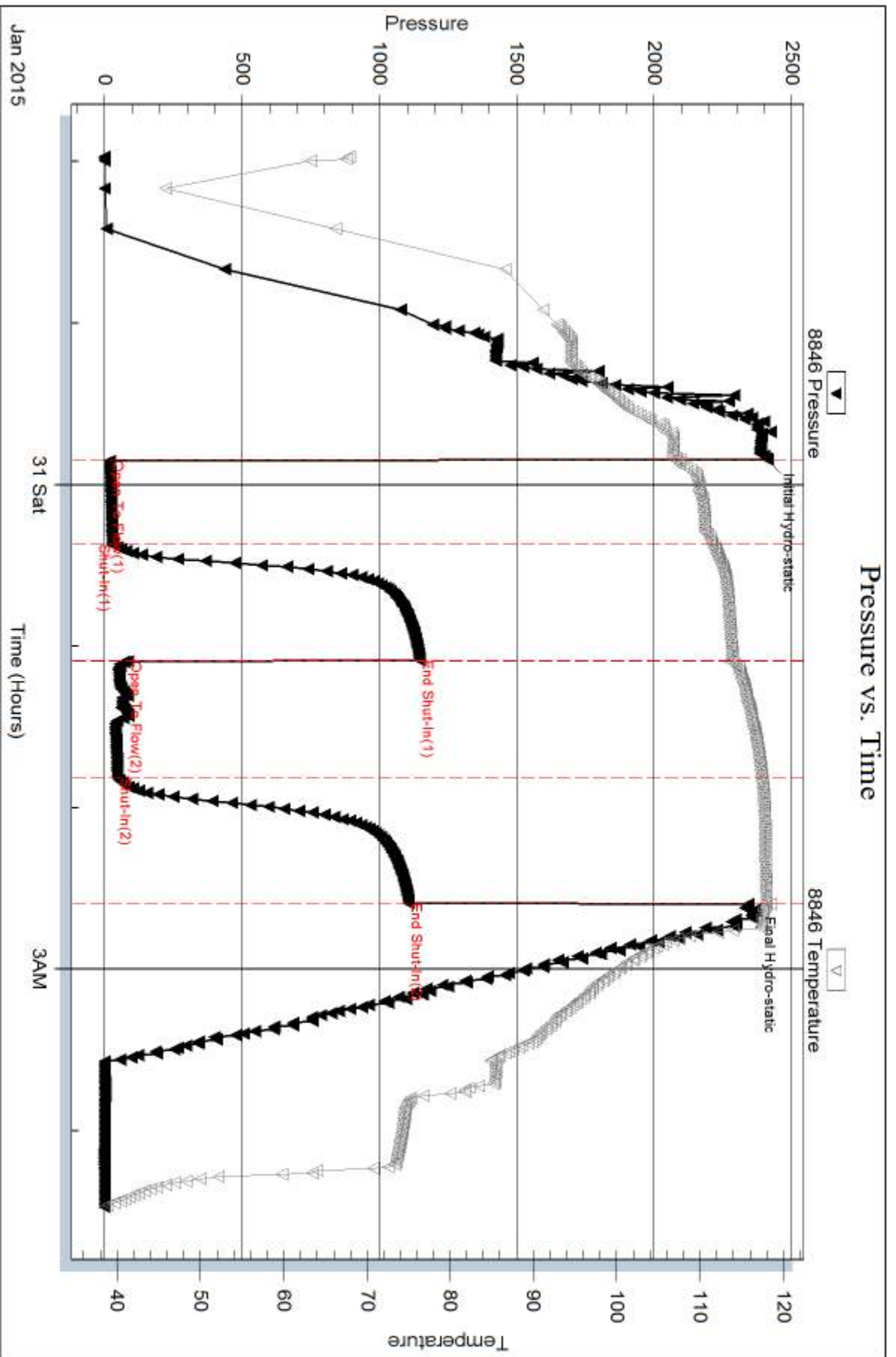
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 1.00 inches			

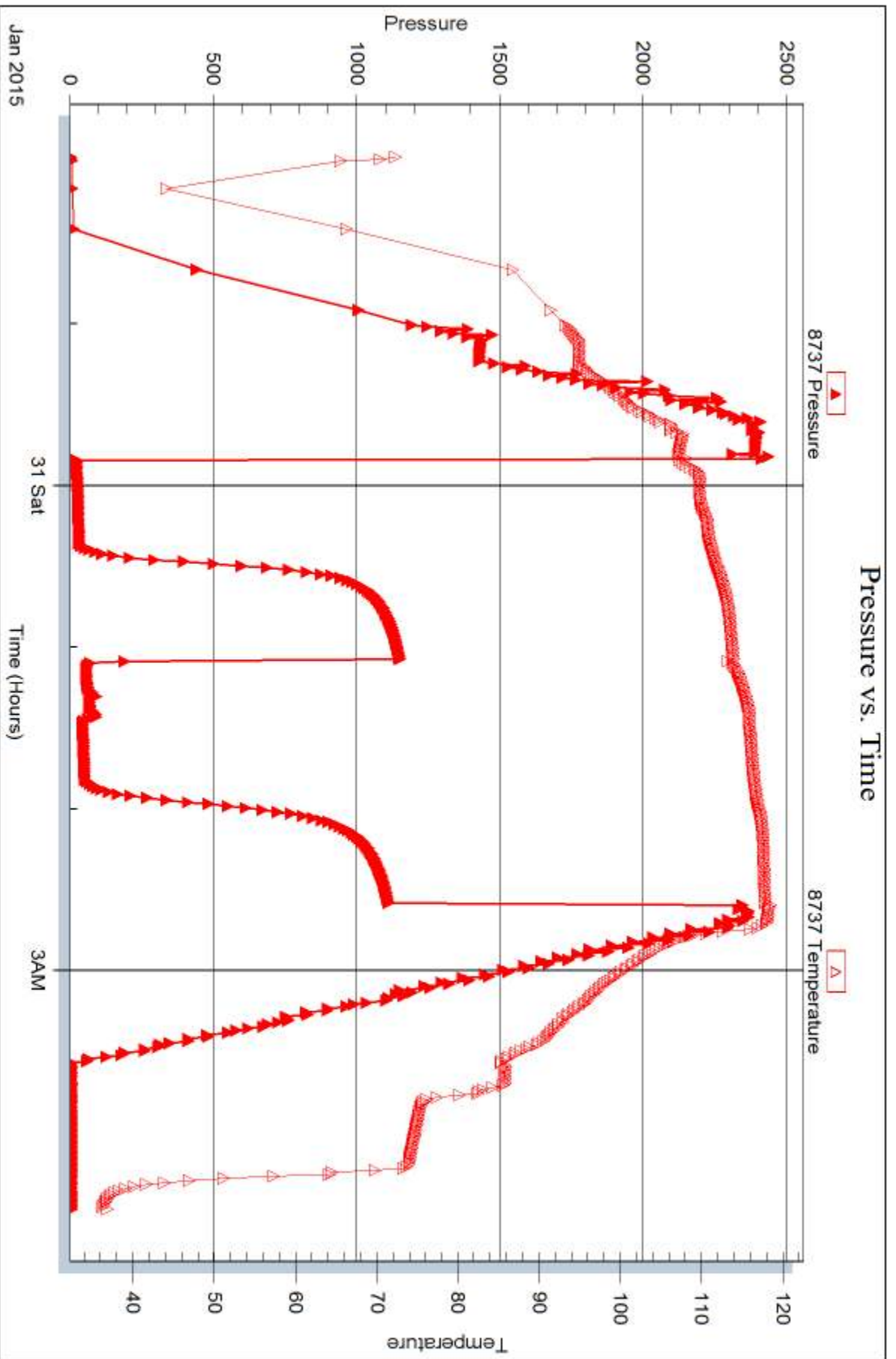
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP= 92 feet	0.000
92.00	gcmo 20%g 30%m 50%o (Thick Oil)	1.291

Total Length: 92.00 ft      Total Volume: 1.291 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61465

Well Name & No. Well # 4-28 Test No. #1 Date 4/29/15  
 Company American Wyo. Drilling Inc Elevation 2064 KB 3053GL  
 Address P.O. Box 399 3118 Cummins Sq. S Rd Garden City, KS 67946  
 Co. Rep / Geo. Kevin Simpson Rig Duke #10  
 Location: Sec. 28 Twp. 23 Rge. 36 Co. Hearsey State Ks

Interval Tested 4284 4367 Zone Tested Marinton  
 Anchor Length 83 Drill Pipe Run 4269 Mud Wt. 9.2  
 Top Packer Depth 4279 Drill Collars Run --- Vis 43  
 Bottom Packer Depth 4284 Wt. Pipe Run --- WL 8.0  
 Total Depth 4367 Chlorides 950 ppm System LCM #1 1/2

Blow Description B.O.B. in 10 min.  
No return  
B.O.B. in 13 min.  
10" in Return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>113</u>	<u>Feet of WCM</u>			<u>45</u>	<u>55</u>
<u>186</u>	<u>Feet of MCW</u>			<u>70</u>	<u>30</u>
<u>186</u>	<u>Feet of SMCW</u>			<u>95</u>	<u>5</u>
<u>651</u>	<u>Feet of Water</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1136 BHT 114° Gravity --- API RW 402 @ 55° F Chlorides 21,000 ppm

(A) Initial Hydrostatic 2083  Test 1150 T-On Location 20:43  
 (B) First Initial Flow 33  Jars 250 T-Started 21:30  
 (C) First Final Flow 187  Safety Joint 75 T-Open 23:53  
 (D) Initial Shut-In 1148  Circ Sub N/C T-Pulled 02:53  
 (E) Second Initial Flow 192  Hourly Standby T-Out \_\_\_\_\_  
 (F) Second Final Flow 363  Mileage 136 RT 136 Comments \_\_\_\_\_  
 (G) Final Shut-In 541  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2021  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Copies \_\_\_\_\_  
 Final Shut-In 60 Sub Total 0  
 Total 1611  
 Sub Total 1611 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. 58570

4/10

Well Name & No. Lee # 4-28 Test No. 2 Date 1-30-15  
 Company American Warrior Inc Elevation 3064 KB 3053 GL  
 Address P.O. Box 399 Garden City KS 3118 Cummings Rd.  
 Co. Rep / Geo. Kevin Timson Rig Duke 10  
 Location: Sec. 28 Twp. 25 Rge. 36 Co. Kearny State KS

Interval Tested 4824-4836 Zone Tested St. Louis "A"  
 Anchor Length 12 Drill Pipe Run 4802 Mud Wt. 9.3  
 Top Packer Depth 4819 Drill Collars Run Ø Vis 51  
 Bottom Packer Depth 4824 Wt. Pipe Run Ø WL 7.2  
 Total Depth 4836 Chlorides 900 ppm System LCM 1

Blow Description IF: Built to 5" Blow  
IS: No Return Blow  
FF: BOB in 41 Min.  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<del>92</del>	<u>GLP = 92'</u>	<u>100</u>			
<u>92</u>	<u>GC MO (thick oil)</u>	<u>20</u>	<u>50</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 92 BHT 118 Gravity API RW @ ° F Chlorides ppm  
 (A) Initial Hydrostatic ~~2411~~ 2411  Test 1150.00 T-On Location 21:30  
 (B) First Initial Flow 18  Jars 250.00 T-Started 21:58  
 (C) First Final Flow 28  Safety Joint 75.00 T-Open 23:50  
 (D) Initial Shut-In 1145  Circ Sub NL T-Pulled 02:35  
 (E) Second Initial Flow 84  Hourly Standby \_\_\_\_\_ T-Out 04:28  
 (F) Second Final Flow 46  Mileage 140 RT = \$140.00 Comments Mileage X 52  
 (G) Final Shut-In 1105  Sampler 136+136  
 (H) Final Hydrostatic 2342  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1747  
 Accessibility 1747 MP/DST Disc't \_\_\_\_\_  
 Sub Total \$1615.00/-

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Approved By \_\_\_\_\_ Our Representative Mike Roberts

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.