



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

3118 Cummings Rd.  
Garden City, KS 67846

ATTN: Kevin Timson

### **O'Brate-Finney #2-15**

### **15-25s-31w Finney,KS**

Start Date: 2014.05.29 @ 13:08:00

End Date: 2014.05.29 @ 22:58:00

Job Ticket #: 56539                      DST #: 1

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

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
3118 Cummings Rd.  
Garden City, KS 67846  
ATTN: Kevin Timson

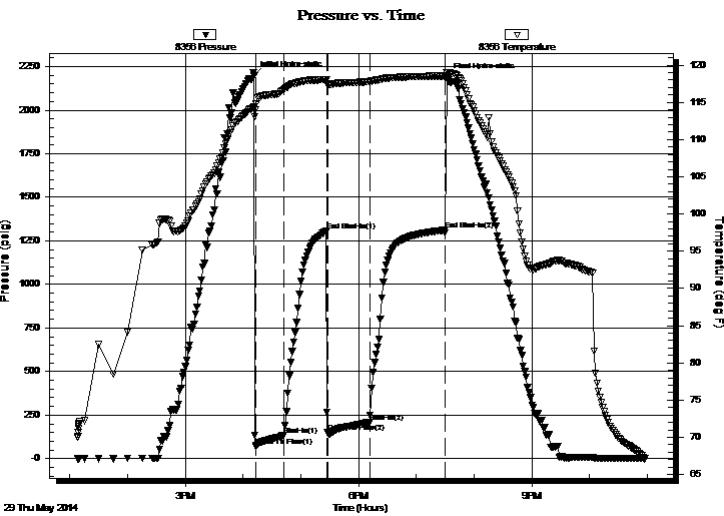
**15-25s-31w Finney,KS**  
**O'Brate-Finney #2-15**  
Job Ticket: 56539 **DST#: 1**  
Test Start: 2014.05.29 @ 13:08:00

## GENERAL INFORMATION:

Formation: **Marmaton-Pawnee**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 16:13:00 Tester: Cornelio Landa III  
Time Test Ended: 22:58:00 Unit No: 60  
**Interval: 4460.00 ft (KB) To 4547.00 ft (KB) (TVD)** Reference Elevations: 2772.00 ft (KB)  
Total Depth: 4547.00 ft (KB) (TVD) 2761.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

**Serial #: 8356 Outside**  
Press@RunDepth: 208.89 psig @ 4463.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.05.29 End Date: 2014.05.29 Last Calib.: 2014.05.29  
Start Time: 13:08:05 End Time: 22:58:00 Time On Btm: 2014.05.29 @ 16:11:30  
Time Off Btm: 2014.05.29 @ 19:31:30

**TEST COMMENT:** IF: B.o.b. in 3 min. 15 sec.  
IS: Bled off 4 min-Surface blow back-Built to 3/4 in.-Died in 31 min.  
FF: B.o.b. in 3 min.  
FS: Bled off in 3 min.-B.o.b. in 20 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2197.47	114.33	Initial Hydro-static
2	70.81	114.03	Open To Flow (1)
31	134.39	116.69	Shut-In(1)
75	1305.63	118.02	End Shut-In(1)
76	149.15	117.52	Open To Flow (2)
120	208.89	117.79	Shut-In(2)
198	1311.28	118.55	End Shut-In(2)
200	2187.74	119.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
122.00	Wco & Gcm 5w 10o 40g 45m	0.60
185.00	Wcm & Ocg 5w 15m 20o 60g	1.48
31.50	Cog 25o 75g	0.44
31.50	Ocm & G 20o 40m 40g	0.44
78.00	G & Ocm 20g 30o 50m	1.09
0.00	GIP=234	0.00

## Gas Rates

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



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**15-25s-31w Finney, KS**

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**O'Brate-Finney #2-15**

Job Ticket: 56539 **DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.05.29 @ 13:08:00

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Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:13:00

Time Test Ended: 22:58:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornelio Landa III

Unit No: 60

**Interval: 4460.00 ft (KB) To 4547.00 ft (KB) (TVD)**

Reference Elevations: 2772.00 ft (KB)

Total Depth: 4547.00 ft (KB) (TVD)

2761.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8373** Inside

Press@RunDepth: psig @ 4463.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.29 End Date: 2014.05.29

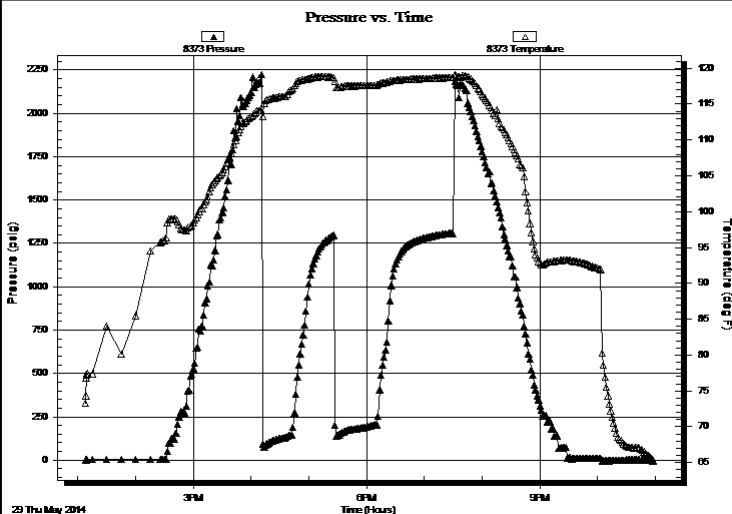
Last Calib.: 2014.05.29

Start Time: 13:08:05 End Time: 22:58:00

Time On Btm:

Time Off Btm:

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## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
122.00	Wco & Gcm 5w 10o 40g 45m	0.60
185.00	Wcm & Ocg 5w 15m 20o 60g	1.48
31.50	Cog 25o 75g	0.44
31.50	Ocm & G 20o 40m 40g	0.44
78.00	G & Ocm 20g 30o 50m	1.09
0.00	GIP=234	0.00

## Gas Rates

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.  
3118 Cummings Rd.  
Garden City, KS 67846  
ATTN: Kevin Timson

**15-25s-31w Finney,KS**  
**O'Brate-Finney #2-15**  
Job Ticket: 56539 **DST#: 1**  
Test Start: 2014.05.29 @ 13:08:00

## Tool Information

Drill Pipe:	Length: 4211.00 ft	Diameter: 3.80 inches	Volume: 59.07 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: 22000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 60.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4460.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	114.00 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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Stubb	1.00			4434.00	
Shut In Tool	5.00			4439.00	
Hydraulic tool	5.00			4444.00	
Jars	5.00			4449.00	
Safety Joint	2.00			4451.00	
Packer	5.00			4456.00	27.00 Bottom Of Top Packer
Packer	4.00			4460.00	
Stubb	1.00			4461.00	
Perforations	1.00			4462.00	
Change Over Sub	1.00			4463.00	
Recorder	0.00	8373	Inside	4463.00	
Recorder	0.00	8356	Outside	4463.00	
Drill Pipe	63.00			4526.00	
Change Over Sub	1.00			4527.00	
Perforations	15.00			4542.00	
Bullnose	5.00			4547.00	87.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>114.00</b>				



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**FLUID SUMMARY**

American Warrior Inc.

**15-25s-31w Finney,KS**

3118 Cummings Rd.  
Garden City, KS 67846

**O'Brate-Finney #2-15**

Job Ticket: 56539

**DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.05.29 @ 13:08:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

9000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	Wco & Gcm 5w 10o 40g 45m	0.600
185.00	Wcm & Ocg 5w 15m 20o 60g	1.484
31.50	Cog 25o 75g	0.442
31.50	Ocm & G 20o 40m 40g	0.442
78.00	G & Ocm 20g 30o 50m	1.094
0.00	GIP=234	0.000

Total Length: 448.00 ft Total Volume: 4.062 bbl

Num Fluid Samples: 0

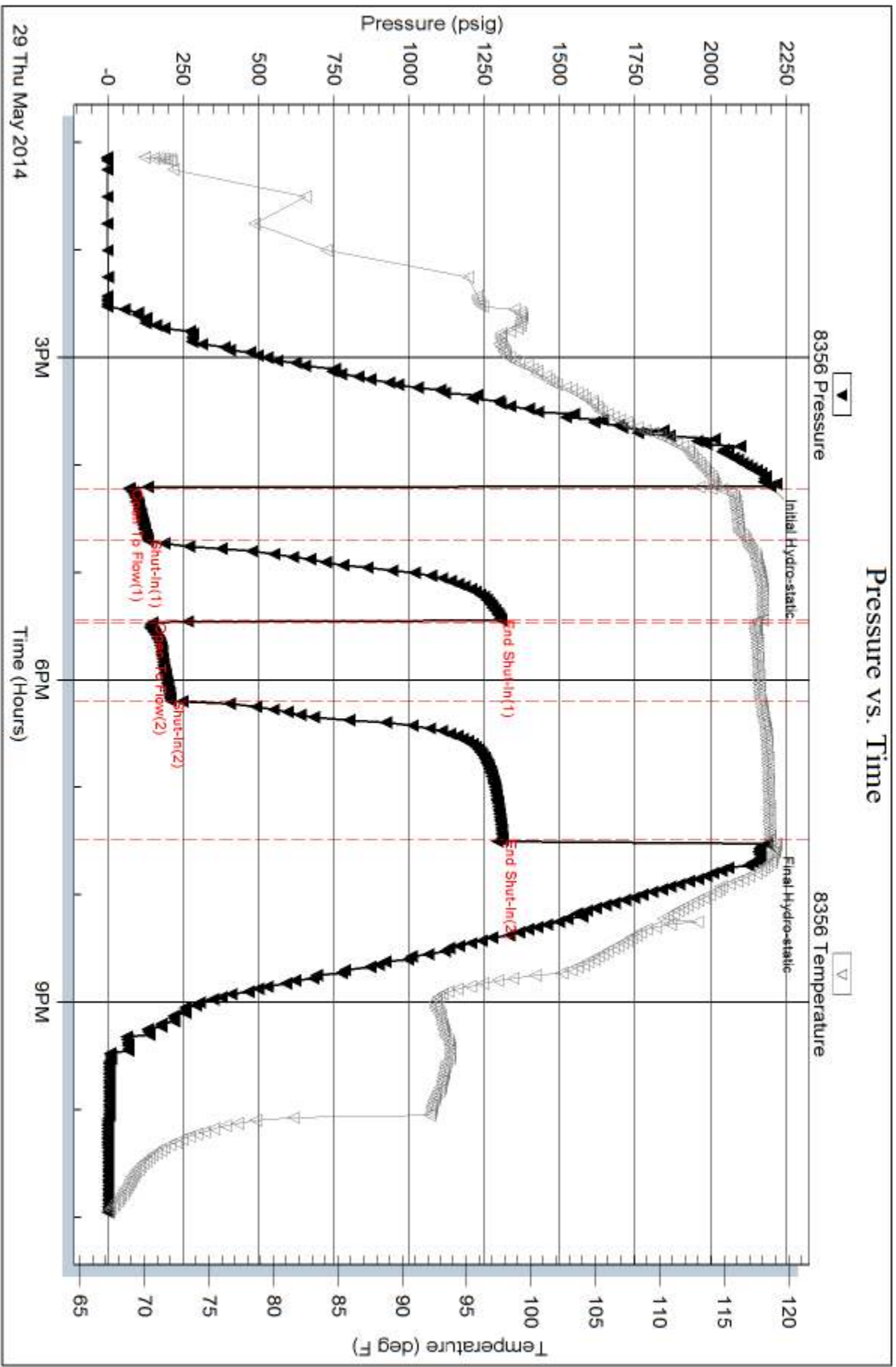
Num Gas Bombs: 0

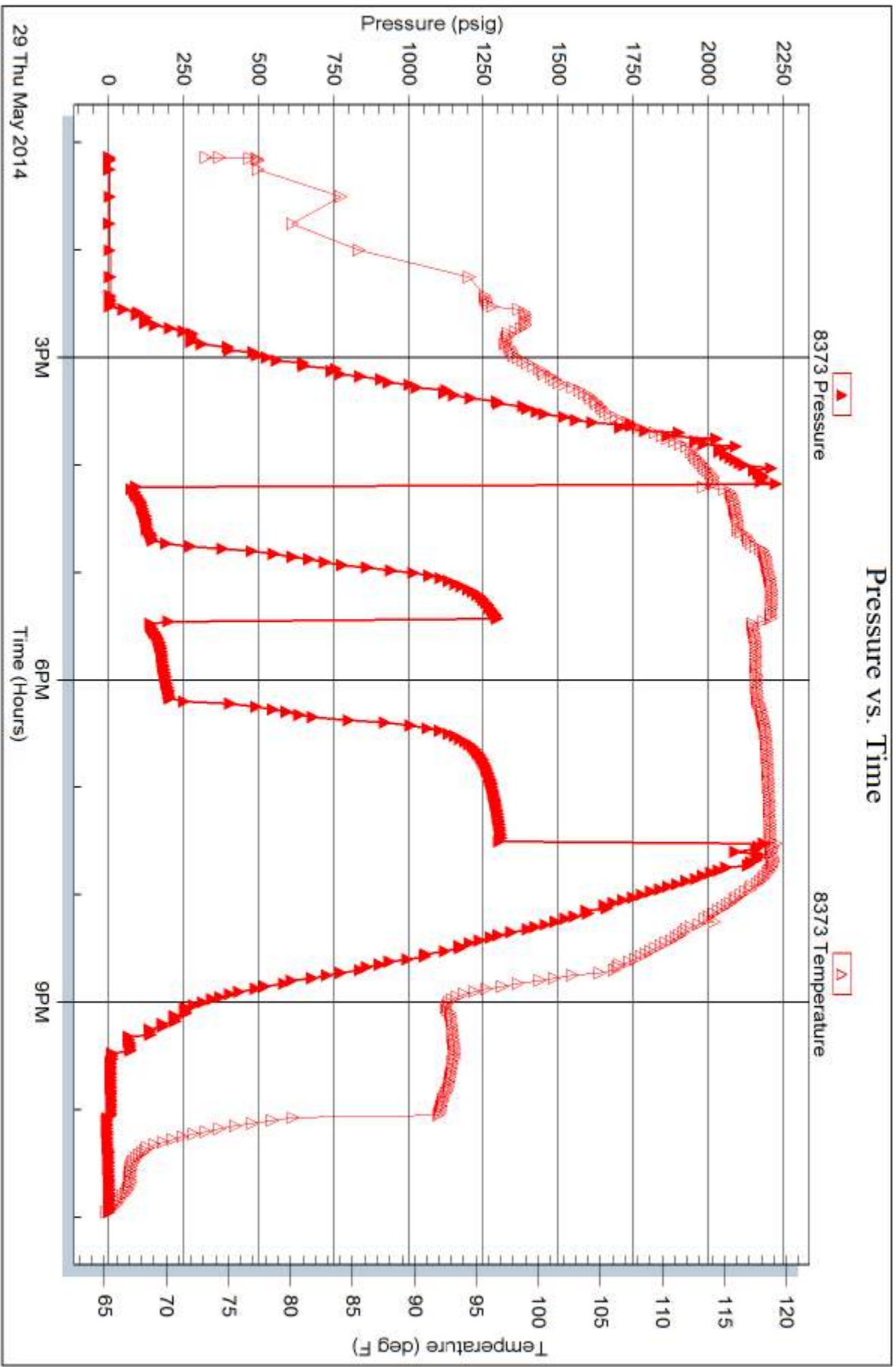
Serial #:

Laboratory Name:

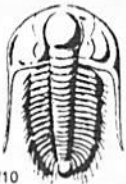
Laboratory Location:

Recovery Comments: RW .580 @ 80.5 = 9000 Gravity 34 @76=32









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **56539**

4/10

Well Name & No. O'Brate-Finney #2-15 Test No. 1 Date 5-29-14  
 Company American Warrior Inc. Elevation 2772 KB 2761 GL  
 Address 3118 Cummings Rd - Garden City, KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke #5  
 Location: Sec. 15 Twp. 25-S Rge. 31-W Co. Finney State KS

Interval Tested 4460-4547 Zone Tested Marmaton-Pawnee  
 Anchor Length 87' Drill Pipe Run ~~4211~~ 4211 Mud Wt. 9.1  
 Top Packer Depth 4456 Drill Collars Run 244 Vis 55  
 Bottom Packer Depth 4460 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4547 Chlorides 2100 ppm System LCM #2

Blow Description IF: B.O. in 3min - 15 sec  
ISF: Blod off in 4min - Surface blowback - Blew to 3 1/4 in. - Dred in 31 min.  
FF: B.O. in 3min.

FST: Blod off in 3min - Bob in 20min -

Rec	Feet of	%gas	%oil	%water	%mud
<u>122</u>	<u>WCO + Gcm</u>	<u>40</u>	<u>10</u>	<u>5</u>	<u>45</u>
<u>185</u>	<u>WCM + OCG</u>	<u>60</u>	<u>20</u>	<u>5</u>	<u>15</u>
<u>315</u>	<u>COG</u>	<u>75</u>	<u>25</u>		
<u>315</u>	<u>OCM + G   GIP=234</u>	<u>40</u>	<u>20</u>		<u>40</u>
<u>78</u>	<u>G + OCM</u>	<u>20</u>	<u>30</u>		<u>50</u>

Rec Total 4418 BHT 119 Gravity 32 API RW. 500 @ 80.5° F Chlorides 9,000 ppm

(A) Initial Hydrostatic 2197  Test 1250 T-On Location 12:35  
 (B) First Initial Flow 71  Jars 250 T-Started 13:08  
 (C) First Final Flow 134  Safety Joint 75 T-Open 16:13  
 (D) Initial Shut-In 1306  Circ Sub N/C T-Pulled 19:31  
 (E) Second Initial Flow 149  Hourly Standby lost keys 5:29 - 140 T-Out 22:58  
 (F) Second Final Flow 209  Mileage 112 R-T 22:58 Comments on loc @ 8:00 a.m  
 (G) Final Shut-In 1311  Sampler 347.20 on 5-31-14 9 hrs. Standby  
 (H) Final Hydrostatic 2188  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In ~~45~~ 78  
 Day Standby 1d 9h Total 2722.20  
 Accessibility MP/DST Disc't  
 Sub Total 1000 on 5-31-14 @ 8:00 a.m.  
 1922.20

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

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