

TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

American Warrior

Hodgeman- O'Brate 1-35

PO Box 399
Garden City KS, 67846

35/22s/23w

Job Ticket: 39397

DST#: 1

ATTN: Harley Sayles

KCC
APR 25 2011

Test Start: 2011.04.10 @ 10:35:26

GENERAL INFORMATION:

CONFIDENTIAL

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:21:41

Time Test Ended: 17:01:56

Test Type: Conventional Bottom Hole

Tester: Mike Slomp

Unit No: 53

Interval: 4458.00 ft (KB) To 4541.00 ft (KB) (TVD)

Total Depth: 4541.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 2275.00 ft (KB)

2264.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8677

Inside

Press@RunDepth: 24.40 psig @ 4460.00 ft (KB)

Start Date: 2011.04.10

End Date:

2011.04.10

Capacity: 8000.00 psig

Last Calib.: 2011.04.10

Start Time: 10:35:27

End Time:

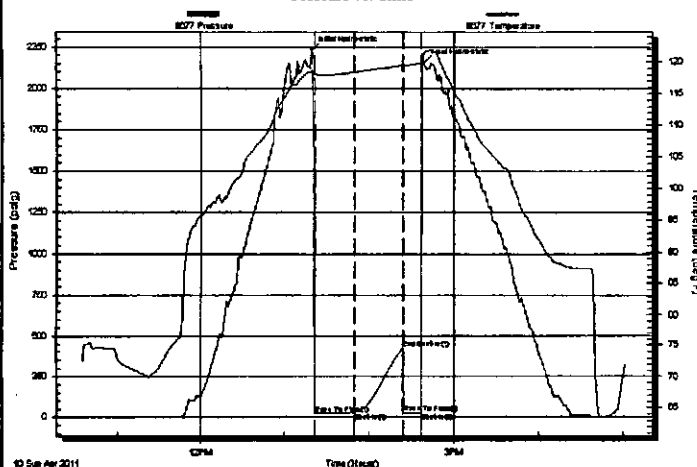
17:01:56

Time On Btm: 2011.04.10 @ 13:19:41

Time Off Btm: 2011.04.10 @ 14:38:41

TEST COMMENT: IF- Weak surface blow 1/2 inch in 30 min
IS- No blow back
FF- No blow , Pulled tool after 10 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.84	118.57	Initial Hydro-static
2	22.63	118.14	Open To Flow (1)
30	24.40	118.42	Shut-In(1)
64	421.16	119.47	End Shut-In(1)
65	27.14	119.38	Open To Flow (2)
77	27.98	119.74	Shut-In(2)
79	2153.50	121.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 5%oil95%mud	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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APR 25 2011

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

Hodgeman- O'Brate 1-35

PO Box 399
Garden City KS, 67846

35/22s/23w

Job Ticket: 39397

DST#: 1

ATTN: Harley Sayles

Test Start: 2011.04.10 @ 10:35:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 5%oil95%mud	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:

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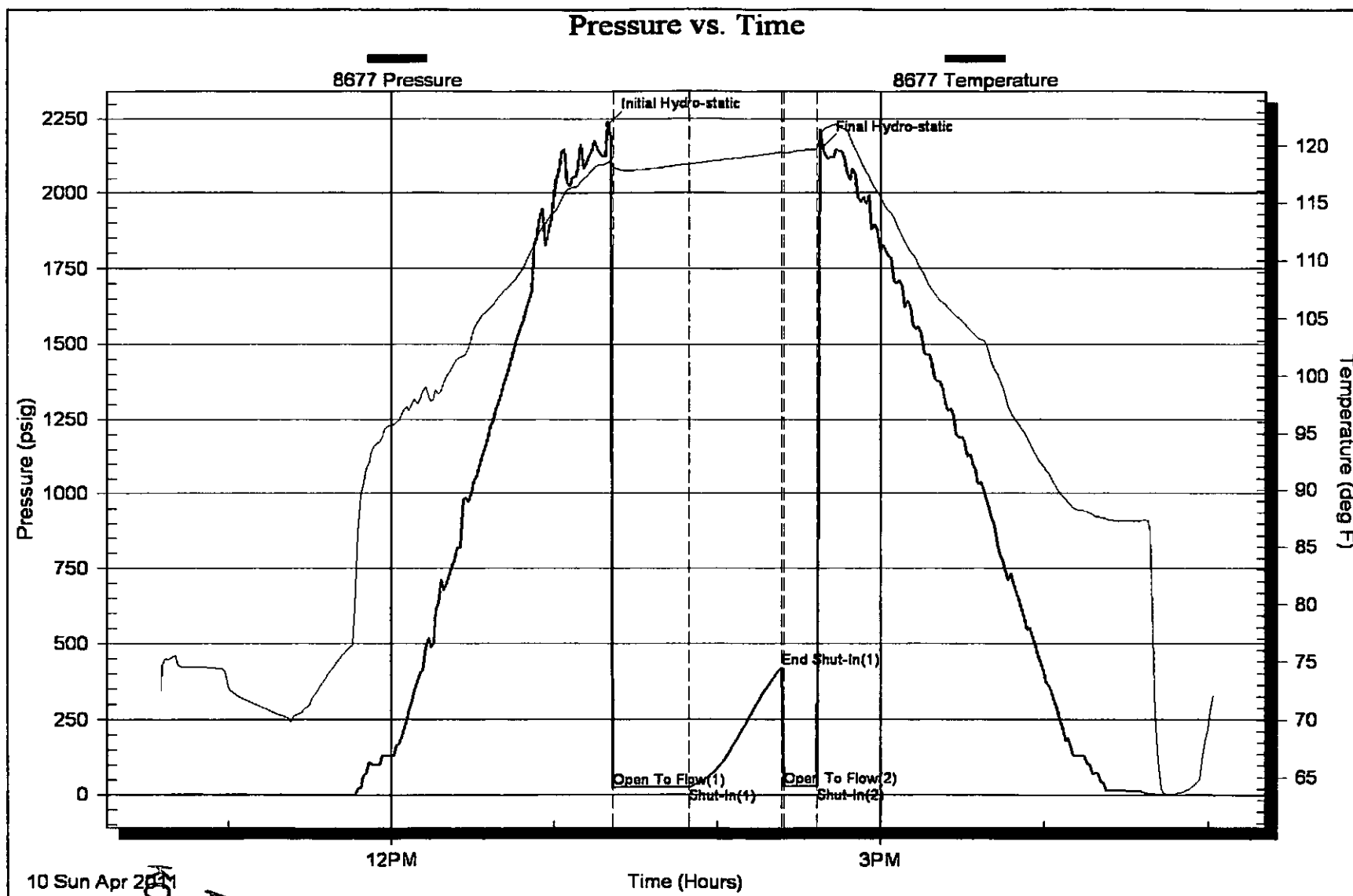
KCC WICHITA

Serial #: 8677

Inside American Warrior

35/22s/23w

DST Test Number: 1



Trilobite Testing, Inc.

Ref. No: 39397

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APR 25 2011
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

American Warrior
PO Box 399
Garden City KS, 67846
ATTN: Harley Sayles

Hodgeman- O'Brate 1-35

35/22s/23w

Job Ticket: 39397

DST#: 2

Test Start: 2011.04.11 @ 00:20:17

GENERAL INFORMATION:

Formation: Miss

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:57:32

Time Test Ended: 09:04:32

Test Type: Conventional Bottom Hole

Tester: Mike Stemp

Unit No: 53

Interval: 4538.00 ft (KB) To 4546.00 ft (KB) (TVD)

Total Depth: 4546.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 2275.00 ft (KB)

2264.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8677

Inside

Press@RunDepth: 417.88 psig @ 4540.00 ft (KB)

Start Date: 2011.04.11

End Date:

2011.04.11

Capacity: 8000.00 psig

Last Calib.: 2011.04.11

Start Time: 00:20:18

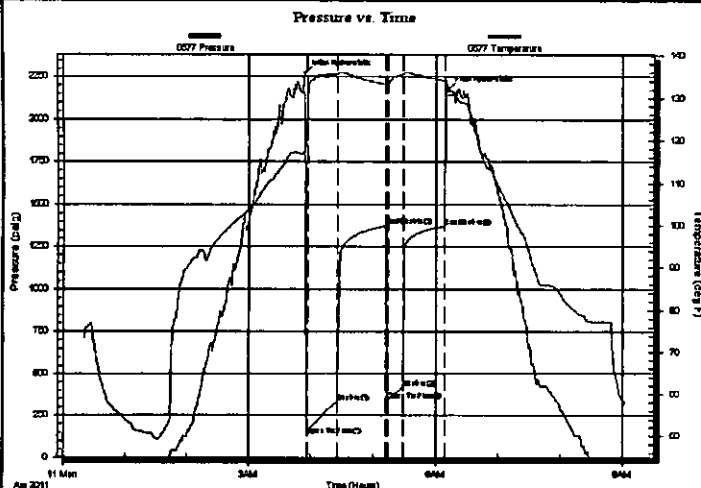
End Time:

09:04:32

Time On Btm: 2011.04.11 @ 03:55:02

Time Off Btm: 2011.04.11 @ 06:11:17

TEST COMMENT: IF- BOB in 4 min
IS- No blow back
FF-BOB in 10 min
FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.82	117.85	Initial Hydro-static
3	131.84	129.05	Open To Flow (1)
32	333.08	135.58	Shut-In(1)
78	1374.79	133.15	End Shut-In(1)
79	340.65	132.88	Open To Flow (2)
94	417.88	135.52	Shut-In(2)
134	1372.88	134.11	End Shut-In(2)
137	2172.52	132.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%oil	0.02
124.00	OCW95% mud5%oil	0.61
372.00	OCW90% water10%oil	4.16
594.00	100%water	8.33

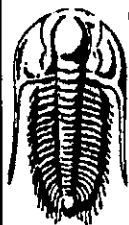
Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

Hodgeman- O'Brate 1-35

PO Box 399
Garden City KS, 67846

35/22s/23w

Job Ticket: 39397

DST#: 2

ATTN: Harley Sayles

Test Start: 2011.04.11 @ 00:20:17

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%oil	0.025
124.00	OCW95% mud5%oil	0.610
372.00	OCW90%w ater10%oil	4.161
594.00	100%w ater	8.332

Total Length: 1095.00 ft

Total Volume: 13.128 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

RECEIVED

APR 25 2011

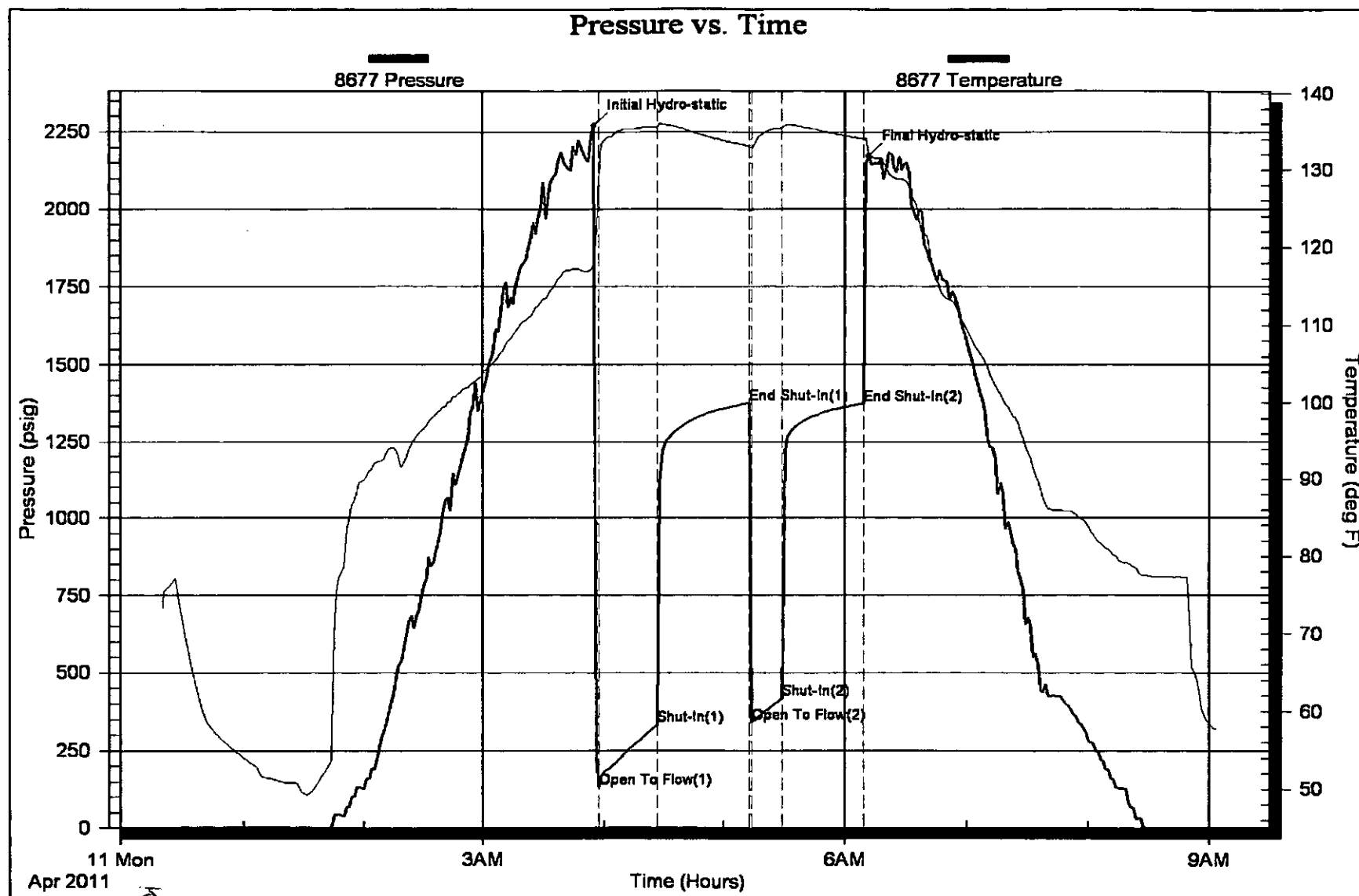
KCC WICHITA

Serial #: 8677

Inside American Warrior

35/22s/23w

DST Test Number: 2

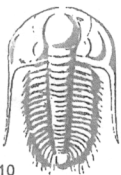


Trilobite Testing

Ref. No: 39397

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APR 25 2011
KCC WICHITA



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket

APR 20 2011

NO. 039396 15653

BY: _____

Well Name & No. Hodgeman - O'Brate #1-35 Test No. 1 Date 4-10-11
 Company American Warrior Elevation 2275 KB 2264 GL _____
 Address PO Box 399 Garden City KS 67846
 Co. Rep / Geo. Huskey Sayles Rig Duke 5
 Location: Sec. 35 Twp. 22S Rge. 23W Co. Hodgeman State KS

Interval Tested 4458-4541 Zone Tested Mississippian
 Anchor Length 23 Drill Pipe Run 4193 Mud Wt. 9.0
 Top Packer Depth 4453 Drill Collars Run 245.0 Vis 49
 Bottom Packer Depth 4458 Wt. Pipe Run 0 WL 10.4
 Total Depth 4541 Chlorides 5500 ppm System LCM 1
 Blow Description IF - weak surface blow 1/2 inch in 30 min
IF - no blow back
FF - no blow, pulled Tool after 10 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>0CM</u>		<u>5</u>		<u>85</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 10 BHT 119.47 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2230.84</u>	☒ Test <u>1225.00</u>	T-On Location <u>9:30 AM</u>
(B) First Initial Flow <u>22.63</u>	☒ Jars <u>250.00</u>	T-Started <u>11:00 AM</u>
(C) First Final Flow <u>24.40</u>	☒ Safety Joint <u>75.00</u>	T-Open <u>1:25 PM</u>
(D) Initial Shut-In <u>421.16</u>	☐ Circ Sub _____	T-Pulled <u>2:40 PM</u>
(E) Second Initial Flow <u>27.14</u>	☐ Hourly Standby _____	T-Out <u>17:01</u>
(F) Second Final Flow <u>27.98</u>	☒ Mileage <u>80 mi - 200.00</u>	Comments <u>pulled Tool in</u>
(G) Final Shut-In _____	☐ Sampler _____	<u>Final Flow after 10 min</u>
(H) Final Hydrostatic <u>2153.50</u>	☐ Straddle _____	

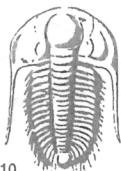
Initial Open <u>30</u>	☐ Shale Packer _____	☐ Ruined Shale Packer _____
Initial Shut-In <u>30</u>	☐ Extra Packer _____	☐ Ruined Packer _____
Final Flow <u>10</u>	☐ Extra Recorder _____	☐ Extra Copies _____
Final Shut-In _____	☐ Day Standby _____	Sub Total _____
	☐ Accessibility _____	Total <u>1650.00</u>

Sub Total 1650

Approved By _____

Our Representative _____

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.**

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 039397

Well Name & No. Hodgeman-O'Brate #1-35 Test No. 2 Date 4-11-11
Company American Warrior Elevation 2275 KB 2264 GL
Address Po Box 399 Garden City KS 67846
Co. Rep / Geo. Hurley Sayles Rig Dulces
Location: Sec. 35 Twp. 22S Rge. 23W Co. Hodgeman State ks

Interval Tested 4538-4546 Zone Tested MISS
Anchor Length 8' Drill Pipe Run 4000 Mud Wt. 9.0
Top Packer Depth 4533 Drill Collars Run 245 Vis 49
Bottom Packer Depth 4538 Wt. Pipe Run 8 WL 10.4
Total Depth 4546 Chlorides 5500 ppm System LCM 1

Blow Description IF-BOB in 4 min
1ST-NO blow back
FF-BOB in 10 min
FS-NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>124</u>	<u>OCM</u>	<u>5</u>	<u>0</u>	<u>95</u>	<u>0</u>
<u>372</u>	<u>OCW</u>	<u>10</u>	<u>90</u>	<u>0</u>	<u>0</u>
<u>594</u>	<u>water</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>

Rec Total 1095 BHT 134.11 Gravity _____ API RW .5 @ 50 °F Chlorides 19000 ppm

(A) Initial Hydrostatic	(B) First Initial Flow	(C) First Final Flow	(D) Initial Shut-In	(E) Second Initial Flow	(F) Second Final Flow	(G) Final Shut-In	(H) Final Hydrostatic
<u>2270.80</u>	<u>131.84</u>	<u>333.08</u>	<u>1374.79</u>	<u>340.65</u>	<u>417.88</u>	<u>1372.88</u>	<u>2172.52</u>

☒ Test 1225.00
☒ Jars 250.00
☒ Safety Joint 75.00
☐ Circ Sub _____
☐ Hourly Standby _____
☒ Mileage 80 mi - 100.00
☐ Sampler _____
☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____
Sub Total 1650.00

T-On Location 12:00 AM
T-Started 1:00 AM
T-Open 3:55 AM
T-Pulled 6:10 AM
T-Out 8:45 AM

Comments _____
☐ Ruined Shale Packer _____
☐ Ruined Packer _____
☐ Extra Copies _____
Sub Total _____
Total 1650.00
MP/DST Disc't _____

Initial Open 30
Initial Shut-In 45
Final Flow 15
Final Shut-In 45

Approved By Hurley Sayles

Our Representative MSR

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.