

15-083-21633

16-22s-22s



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

16 22 22 Hodgeman KS

Lee-#1-16

Start Date: 2010.03.19 @ 14:40:02

End Date: 2010.03.19 @ 21:59:02

Job Ticket #: 38094 DST #: 1

KCC

APR 30 2010

CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

APR 30 2010

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

Lee-#1-16

16 22 22 Hodgeman KS

Job Ticket: 38094

DST#: 1

Test Start: 2010.03.19 @ 14:40:02

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:45:32

Time Test Ended: 21:59:02

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 4423.00 ft (KB) To 4468.00 ft (KB) (TVD)

Total Depth: 4468.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2240.00 ft (KB)

2229.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6755

Inside

Press@RunDepth: 26.07 psig @ 4462.00 ft (KB)

Start Date: 2010.03.19

End Date:

2010.03.19

Start Time: 14:40:04

End Time:

21:59:02

Capacity: 8000.00 psig

Last Calib.: 2010.03.19

Time On Btm: 2010.03.19 @ 17:45:02

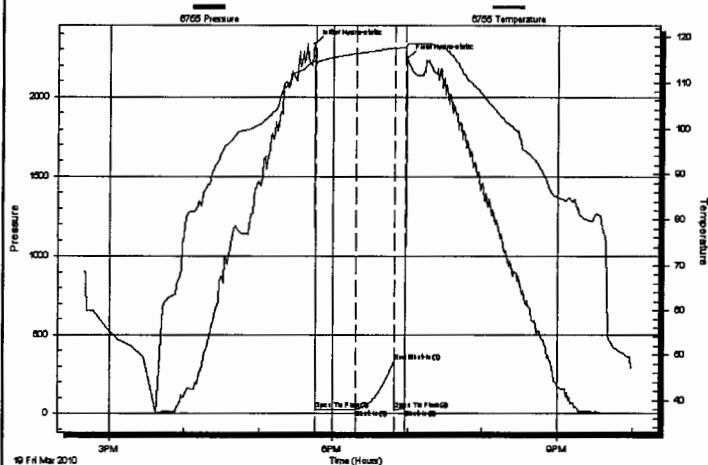
Time Off Btm: 2010.03.19 @ 18:59:02

TEST COMMENT: IFF-Weak Blow, 1/8", Died in 15 Min.

ISI-Dead

FFP-Dead, Pull Tool

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2335.81	114.93	Initial Hydro-static
1	24.73	113.64	Open To Flow (1)
34	26.07	116.44	Shut-In (1)
64	329.15	117.65	End Shut-In (1)
65	25.54	117.49	Open To Flow (2)
73	27.61	117.76	Shut-In (2)
74	2247.81	118.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud W/Oil Spots	0.01

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.

Lee-#1-16

PO Box 399
Garden City, KS 67846

16 22 22 Hodgeman KS

Job Ticket: 38094

DST#: 1

ATTN: Jason Alm

Test Start: 2010.03.19 @ 14:40:02

Tool Information

Drill Pipe:	Length: 4106.00 ft	Diameter: 3.80 inches	Volume: 57.60 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 307.00 ft	Diameter: 2.25 inches	Volume: 1.51 bbl	Weight to Pull Loose:	84000.00 lb
		Total Volume:	59.11 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4423.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	73.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4396.00	
Shut In Tool	5.00			4401.00	
Hydraulic tool	5.00			4406.00	
Jars	5.00			4411.00	
Safety Joint	2.00			4413.00	
Packer	5.00			4418.00	28.00 Bottom Of Top Packer
Packer	5.00			4423.00	
Stubb	1.00			4424.00	
Perforations	5.00			4429.00	
Change Over Sub	1.00			4430.00	
Blank Spacing	31.00			4461.00	
Change Over Sub	1.00			4462.00	
Recorder	0.00	6755	Inside	4462.00	
Recorder	0.00	8360	Outside	4462.00	
Perforations	3.00			4465.00	
Bullnose	3.00			4468.00	45.00 Bottom Packers & Anchor
Total Tool Length:	73.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

Lee #1-16

PO Box 399
Garden City, KS 67846

16 22 22 Hodgeman KS

Job Ticket: 38094

DST#: 1

ATTN: Jason Alm

Test Start: 2010.03.19 @ 14:40:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud W/Oil Spots	0.015

Total Length: 3.00 ft

Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

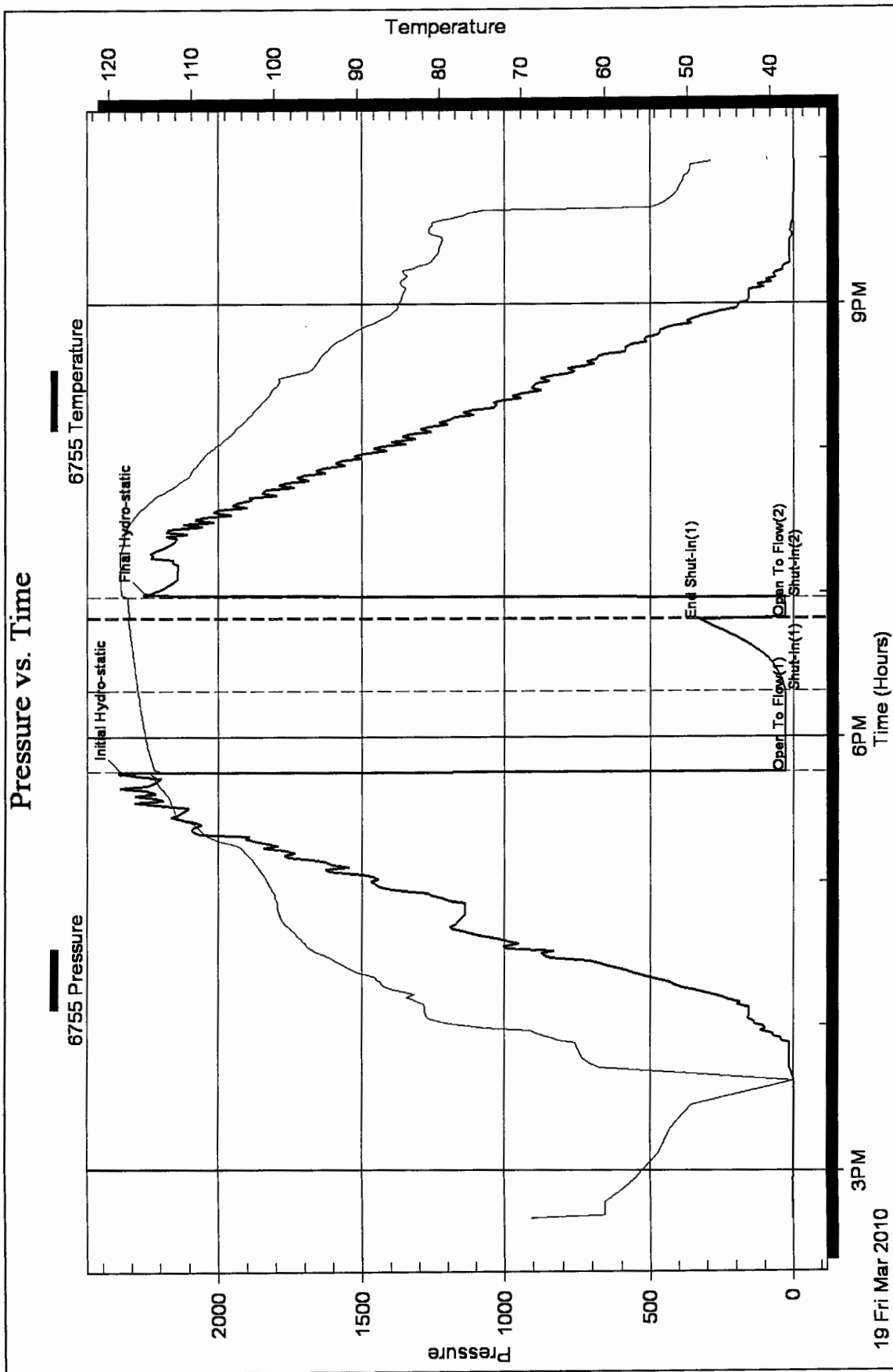
Laboratory Location:

Recovery Comments:

DST Test Number: 1

16 22 22 Hodgeman KS

Serial #: 6755 Inside American Warrior, Inc.





DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

16 22 22 Hodgeman KS

Lee-#1-16

Start Date: 2010.03.20 @ 05:36:12

End Date: 2010.03.20 @ 13:39:12

Job Ticket #: 38095 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

American Warrior, Inc.

Lee #1-16

PO Box 399
Garden City, KS 67846

16 22 22 Hodgeman KS

ATTN: Jason Alm

Job Ticket: 38095

DST#: 2

Test Start: 2010.03.20 @ 05:36:12

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 09:05:42

Time Test Ended: 13:39:12

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **4466.00 ft (KB) To 4474.00 ft (KB) (TVD)**

Reference Elevations: 2240.00 ft (KB)

Total Depth: **4474.00 ft (KB) (TVD)**

2229.00 ft (CF)

Hole Diameter: **7.80 inches** Hole Condition: **Good**

KB to GR/CF: 11.00 ft

Serial #: **6755**

Inside

Press@RunDepth: 216.13 psig @ 4468.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.03.20

End Date:

2010.03.20

Last Calib.: 2010.03.20

Start Time: 05:36:14

End Time:

13:39:12

Time On Btm: 2010.03.20 @ 09:04:42

Time Off Btm: 2010.03.20 @ 10:31:12

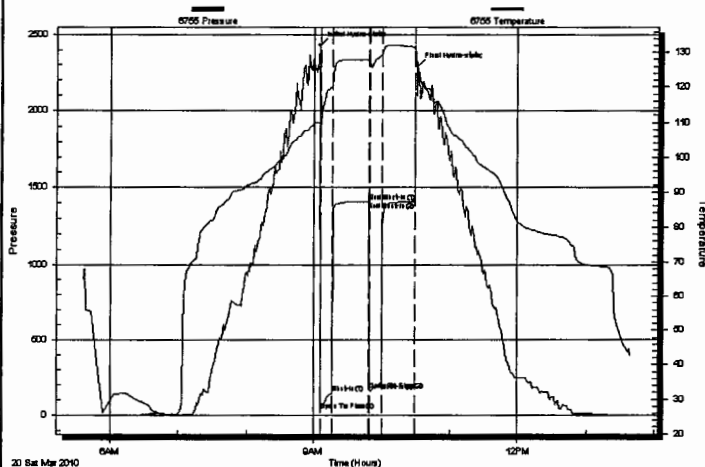
TEST COMMENT: IFF-Strong Blow ,BOB in 5 Min.

ISI-Blow back Built to 4"

FFP-Strong Blow ,BOB in 5 Min.

FSI-Blow back Built to 4"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2430.37	109.97	Initial Hydro-static
1	31.52	109.02	Open To Flow (1)
11	146.54	119.90	Shut-In(1)
44	1409.74	127.79	End Shut-In(1)
45	161.19	127.07	Open To Flow (2)
56	216.13	129.15	Shut-In(2)
85	1408.15	131.50	End Shut-In(2)
87	2291.35	124.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Frothy Muddy Oil-60%G-25%O-15%M	0.12
515.00	Gassy Oil-30%G-70%O	4.66
0.00	180' Gas In Pipe	0.00

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.

Lee-#1-16

PO Box 399
Garden City, KS 67846

16 22 22 Hodgeman KS

Job Ticket: 38095

DST#: 2

ATTN: Jason Alm

Test Start: 2010.03.20 @ 05:36:12

Tool Information

Drill Pipe:	Length: 4137.00 ft	Diameter: 3.80 inches	Volume: 58.03 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 307.00 ft	Diameter: 2.25 inches	Volume: 1.51 bbl	Weight to Pull Loose:	82000.00 lb
		Total Volume:	59.54 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4466.00 ft			Final	81000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	8.00 ft				
Tool Length:	36.00 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			4439.00	
Shut In Tool	5.00			4444.00	
Hydraulic tool	5.00			4449.00	
Jars	5.00			4454.00	
Safety Joint	2.00			4456.00	
Packer	5.00			4461.00	28.00 Bottom Of Top Packer
Packer	5.00			4466.00	
Stubb	1.00			4467.00	
Perforations	1.00			4468.00	
Recorder	0.00	6755	Inside	4468.00	
Recorder	0.00	8360	Outside	4468.00	
Perforations	3.00			4471.00	
Bullnose	3.00			4474.00	8.00 Bottom Packers & Anchor

Total Tool Length: 36.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

Lee #1-16

PO Box 399
Garden City, KS 67846

16 22 22 Hodgeman KS

Job Ticket: 38095

DST#: 2

ATTN: Jason Alm

Test Start: 2010.03.20 @ 05:36:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Frothy Muddy Oil-60%G-25%O-15%M	0.123
515.00	Gassy Oil-30%G-70%O	4.655
0.00	180' Gas In Pipe	0.000

Total Length: 540.00 ft

Total Volume: 4.778 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

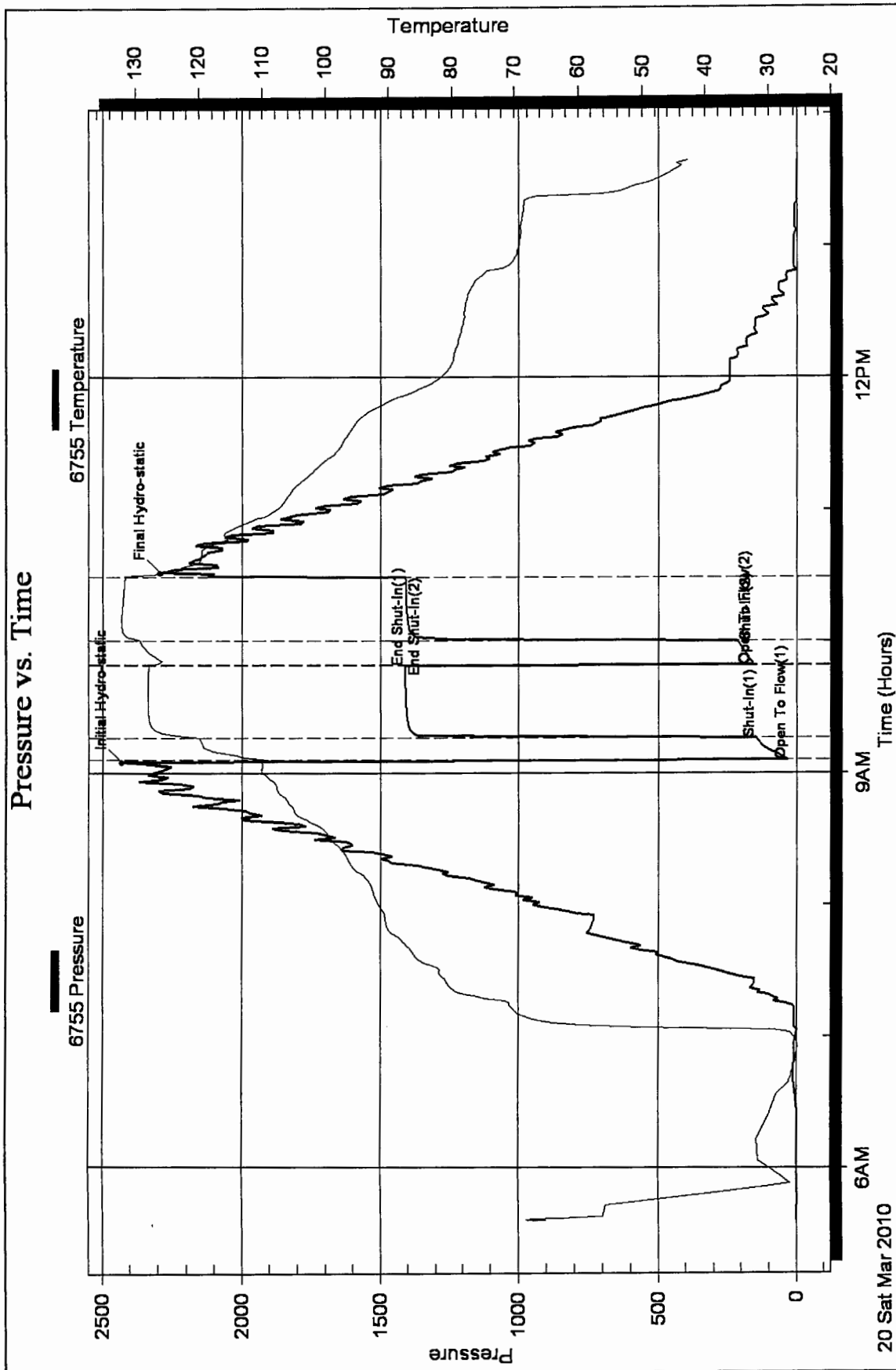
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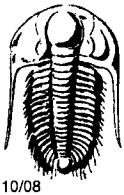
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 23 2010

Test Ticket

NO. 38094 / 14031

Well Name & No. Lee #1-16 BY: _____ Test No. 1 Date 3-19-10
Company American Warrior, Inc. Elevation 2240 KB 2229 GL
Address PO Box 399, Garden City, KS. 67846
Co. Rep / Geo. Jason Alm Rig Duke #5
Location: Sec. 16 Twp. 22S Rge. 22W Co. Hodgeman State KS

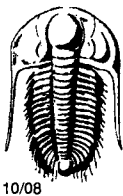
Interval Tested 4423-4468 Zone Tested Mississippi
Anchor Length 45' Drill Pipe Run 4106 Mud Wt. 9.7
Top Packer Depth 4418 Drill Collars Run 307 Vis 56
Bottom Packer Depth 4423 Wt. Pipe Run 0 WL 10.8
Total Depth 4468 Chlorides 4200 ppm System LCM Trace
Blow Description IFP-Weak Blow, 1/8", Died in 15 min.
ISI-Dead
FFP-Dead, Pull Tool
FSI-

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Mud w/oil spots</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 3 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2336</u>	☒ Test <u>1150'</u>	T-On Location <u>13:14</u>
(B) First Initial Flow <u>25</u>	☒ Jars <u>250'</u>	T-Started <u>14:40</u>
(C) First Final Flow <u>26</u>	☒ Safety Joint <u>75'</u>	T-Open <u>17:47</u>
(D) Initial Shut-In <u>329</u>	☐ Circ Sub _____	T-Pulled <u>18:57</u>
(E) Second Initial Flow <u>26</u>	☐ Hourly Standby _____	T-Out <u>22:00</u>
(F) Second Final Flow <u>28</u>	☒ Mileage <u>152 rt</u>	Comments _____
(G) Final Shut-In _____	☐ Sampler _____	_____
(H) Final Hydrostatic <u>2248</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 <u>0</u>
	☐ Accessibility _____	Total <u>1427-</u>
	Sub Total <u>1427-</u>	

Approved By _____ Our Representative Jason Mc Loman *Thank You*
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. 38095

RECEIVED
MAR 23 2010

Well Name & No. Lee #1-16 Test No. 2 Date 3-20-10
Company American Warrior, Inc. Elevation 2240 KB 2229 GL
Address PO Box 399, Garden City, KS. 67846
Co. Rep / Geo. Jason Alm Rig Duke #5
Location: Sec. 16 Twp. 22 S Rge. 22 W Co. Hodgeman State Ks

Interval Tested 4466 - 4474 Zone Tested Mississippi
Anchor Length 8' Drill Pipe Run 4137 Mud Wt. 9.7
Top Packer Depth 4461 Drill Collars Run 307 Vis 56
Bottom Packer Depth 4466 Wt. Pipe Run 0 WL 10.8
Total Depth 4474 Chlorides 4200 ppm System LCM Trace
Blow Description IFP - Strong Blow, BOB in 5 min
ISI - Blowback Built to 4"
FFP - Strong Blow, BOB in 5 min.
FSI - Blowback Built to 4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>515</u>	<u>Gassy Oil</u>				
<u>25</u>	<u>Frothy Muddy Oil</u>	<u>60%</u>	<u>25%</u>	<u>15%</u>	
	<u>180' Gas In Pipe</u>				

Rec Total 540 BHT 131° Gravity 34 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 2387
(B) First Initial Flow 32
(C) First Final Flow 147
(D) Initial Shut-In 1410
(E) Second Initial Flow 161
(F) Second Final Flow 216
(G) Final Shut-In 1408
(H) Final Hydrostatic 2182

☒ Test 1150-
☒ Jars 250-
☒ Safety Joint 75-
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 152 rt
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 1627-

T-On Location 4:35
T-Started 5:36
T-Open 8:16
T-Pulled 9:36
T-Out 13:40
Comments
Total 1627-

Initial Open 10
Initial Shut-In 30
Final Flow 10
Final Shut-In 30

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.

Jason Alm Thank you!