



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Helfrich 6-5
Doc ID	1153157

Tops

Name	Top	Datum
Anhy	1454'	+919
B/Anhy	1467'	+906
Heebner	3950'	-1577
Lansing	4053'	-1680
Stark	4283'	-1910
B/KC	4401'	-2028
Pawnee	4519'	-2146
Ft.Scott	4574'	-2201
Osage	4667'	-2294



DRILL STEM TEST REPORT

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

3118 Cummings Rd.
Garden City, KS 67846

ATTN: Kevin Timson

Helfrich #6-5

5-24s-21w Hodgeman,KS

Start Date: 2013.06.10 @ 18:57:45

End Date: 2013.06.11 @ 02:18:15

Job Ticket #: 50499 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.14 @ 10:05:53



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

5-24s-21w Hodgeman, KS
Helfrich #6-5
Job Ticket: 50499 **DST#: 1**
Test Start: 2013.06.10 @ 18:57:45

GENERAL INFORMATION:

Formation: **Altamont 'A'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:36:45
Time Test Ended: 02:18:15
Interval: **4405.00 ft (KB) To 4470.00 ft (KB) (TVD)**
Total Depth: 4470.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 48
Reference Elevations: 2372.00 ft (KB)
2364.00 ft (CF)
KB to GR/CF: 8.00 ft

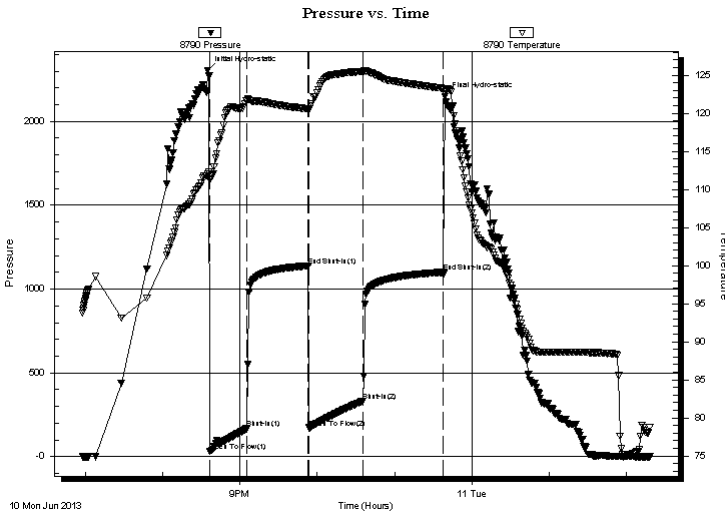
Serial #: 8790

Inside

Press @ Run Depth: 331.93 psig @ 4406.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.06.10 End Date: 2013.06.11 Last Calib.: 2013.06.11
Start Time: 18:57:50 End Time: 02:18:14 Time On Btm: 2013.06.10 @ 20:35:00
Time Off Btm: 2013.06.10 @ 23:39:00

TEST COMMENT: IF: Strong blow . BOB @ 12 min.
IS: Weak blow . surf. - 1/2"
FF: Strong blow . BOB @ 15 min.
FS: Weak surf. blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2304.83	111.97	Initial Hydro-static
2	33.13	111.28	Open To Flow (1)
31	167.00	121.68	Shut-In(1)
78	1138.14	120.55	End Shut-In(1)
79	172.00	120.31	Open To Flow (2)
121	331.93	125.46	Shut-In(2)
183	1100.44	123.27	End Shut-In(2)
184	2148.84	122.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
375.00	VSLI OCMW trc%oil, 7%mud, 93%w tr	5.26
130.00	SLI OCWM 10%oil, 45%w tr, 45%mud	1.82
65.00	OWCM 15%oil, 30%w tr, 55%mud	0.91
35.00	OCM 85%oil, 15%mud	0.49
0.00	35' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

5-24s-21w Hodgeman, KS

3118 Cummings Rd.
Garden City, KS 67846

Helfrich #6-5

Job Ticket: 50499

DST#: 1

ATTN: Kevin Timson

Test Start: 2013.06.10 @ 18:57:45

Tool Information

Drill Pipe:	Length: 4400.00 ft	Diameter: 3.80 inches	Volume: 61.72 bbl	Tool Weight: 2400.00 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: 60000.00 lb
			<u>Total Volume: 61.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4405.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	92.00 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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Shut In Tool	5.00			4383.00	
Hydraulic tool	5.00			4388.00	
Jars	5.00			4393.00	
Safety Joint	2.00			4395.00	
packer	5.00			4400.00	
Packer	5.00			4405.00	27.00 Bottom Of Top Packer
Stubb	1.00			4406.00	
Recorder	0.00	8790	Inside	4406.00	
Recorder	0.00	8792	Outside	4406.00	
perforations	2.00			4408.00	
change Over Sub	1.00			4409.00	
drill Pipe	32.00			4441.00	
Change Over Sub	1.00			4442.00	
Perforations	25.00			4467.00	
Bullnose	3.00			4470.00	65.00 Anchor Tool

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

5-24s-21w Hodgeman,KS

3118 Cummings Rd.
Garden City, KS 67846

Helfrich #6-5

Job Ticket: 50499

DST#: 1

ATTN: Kevin Timson

Test Start: 2013.06.10 @ 18:57:45

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:

43000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbf

Water Loss: 12.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
375.00	VSLI OCMW trc%oil, 7%mud, 93%w tr	5.260
130.00	SLI OCWM 10%oil, 45%w tr, 45%mud	1.824
65.00	OWCM 15%oil, 30%w tr, 55%mud	0.912
35.00	OCM 85%oil, 15%mud	0.491
0.00	35' GIP	0.000

Total Length: 605.00 ft Total Volume: 8.487 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

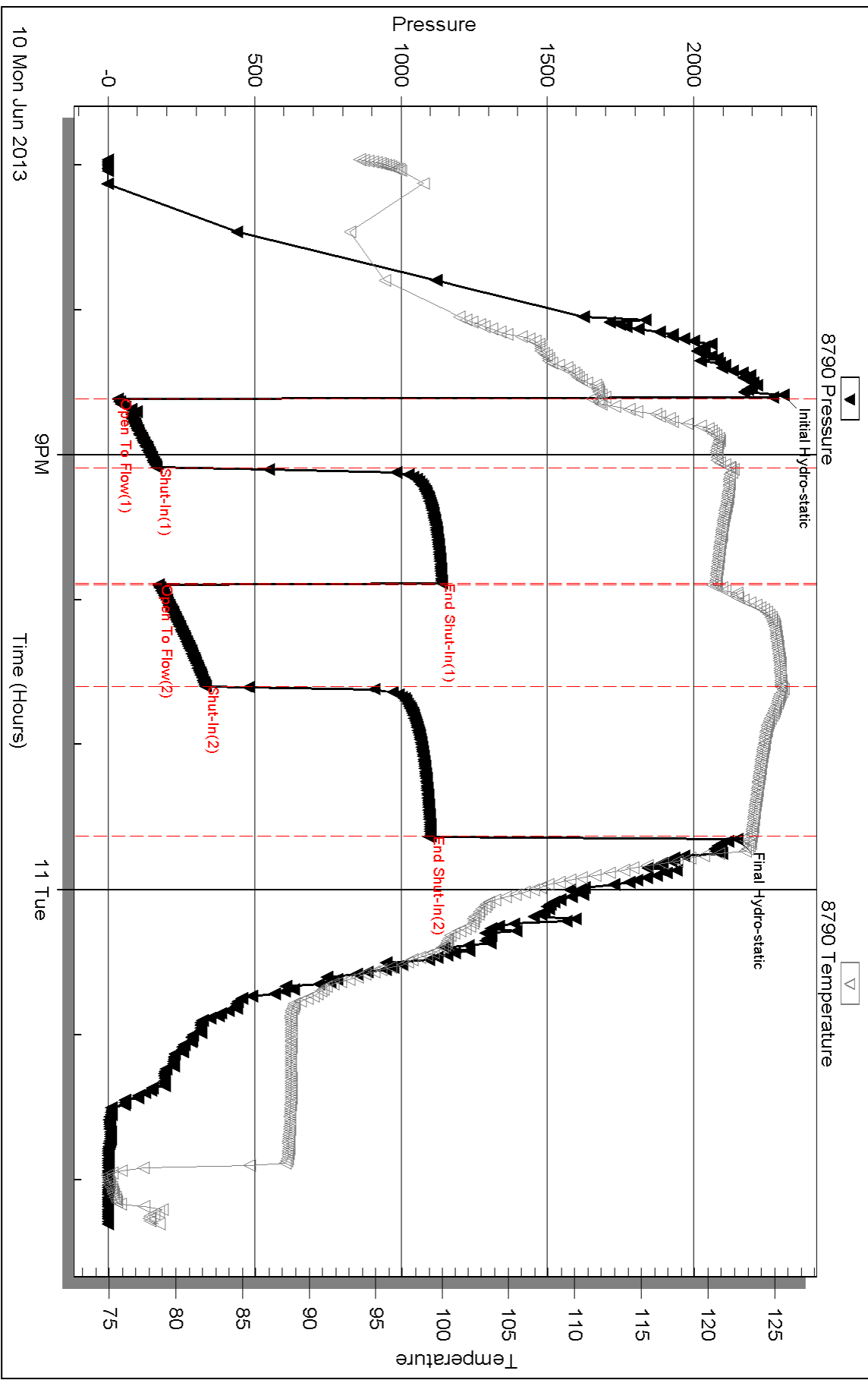
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .16 @ 85

Pressure vs. Time

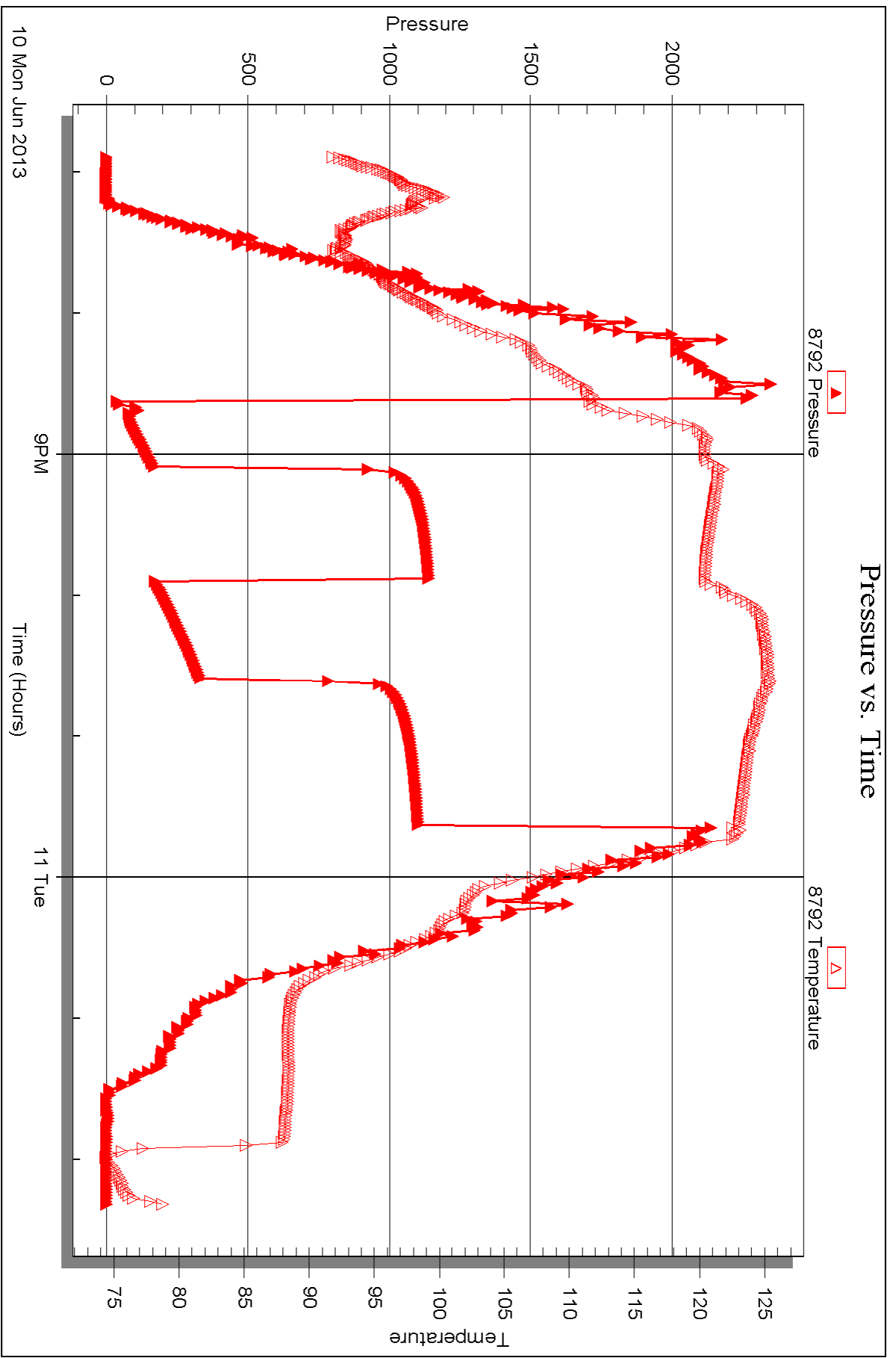


Serial #: 8792

Outside American Warrior, Inc.

Heilrich #6-5

DST Test Number: 1





DRILL STEM TEST REPORT

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

3118 Cummings Rd.
Garden City, KS 67846

ATTN: Kevin Timson

Helfrich #6-5

5-24s-21w Hodgeman,KS

Start Date: 2013.06.12 @ 00:24:45

End Date: 2013.06.12 @ 07:28:15

Job Ticket #: 50500 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.14 @ 10:05:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

5-24s-21w Hodgeman, KS
Helfrich #6-5
 Job Ticket: 50500 **DST#: 2**
 Test Start: 2013.06.12 @ 00:24:45

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:23:30
 Time Test Ended: 07:28:15
 Interval: **4588.00 ft (KB) To 4630.00 ft (KB) (TVD)**
 Total Depth: 4630.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 2372.00 ft (KB)
 2364.00 ft (CF)
 KB to GR/CF: 8.00 ft

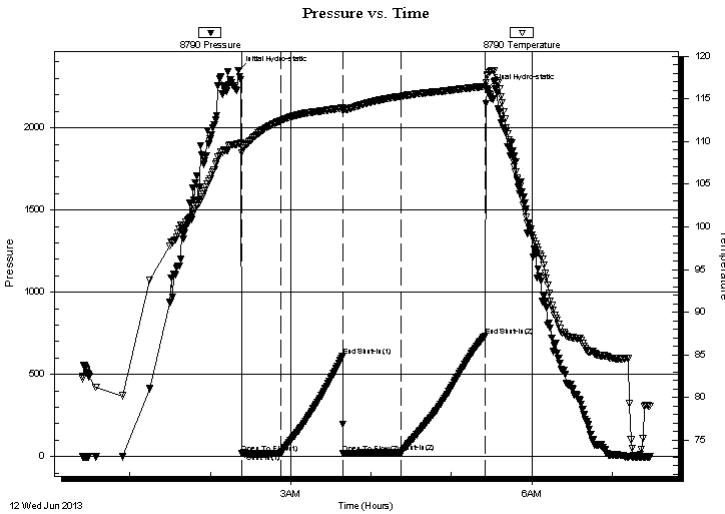
Serial #: 8790

Inside

Press @ Run Depth: 24.40 psig @ 4589.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.12 End Date: 2013.06.12 Last Calib.: 2013.06.12
 Start Time: 00:24:50 End Time: 07:28:14 Time On Btm: 2013.06.12 @ 02:21:00
 Time Off Btm: 2013.06.12 @ 05:26:45

TEST COMMENT: IF: Strong blow . BOB @ 16 min.
 IS: No blow
 FF: Strong blow . BOB @ 30 sec. No GTS.
 FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2348.93	109.74	Initial Hydro-static
3	19.19	108.72	Open To Flow (1)
32	18.55	112.43	Shut-In(1)
78	608.80	113.91	End Shut-In(1)
79	18.83	113.67	Open To Flow (2)
122	24.40	115.30	Shut-In(2)
185	732.57	116.47	End Shut-In(2)
186	2235.23	117.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOCM 10%gas, 27%oil, 63%mud	0.42
0.00	870' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

5-24s-21w Hodgeman, KS

3118 Cummings Rd.
Garden City, KS 67846

Helfrich #6-5

Job Ticket: 50500

DST#: 2

ATTN: Kevin Timson

Test Start: 2013.06.12 @ 00:24:45

Tool Information

Drill Pipe:	Length: 4585.00 ft	Diameter: 3.80 inches	Volume: 64.32 bbl	Tool Weight:	2400.00 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:	60000.00 lb
			<u>Total Volume: 64.32 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4588.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	69.00 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
Shut In Tool	5.00			4566.00	
Hydraulic tool	5.00			4571.00	
Jars	5.00			4576.00	
Safety Joint	2.00			4578.00	
packer	5.00			4583.00	
Packer	5.00			4588.00	27.00 Bottom Of Top Packer
Stubb	1.00			4589.00	
Recorder	0.00	8790	Inside	4589.00	
Recorder	0.00	8792	Outside	4589.00	
perforations	2.00			4591.00	
change Over Sub	1.00			4592.00	
drill Pipe	32.00			4624.00	
Change Over Sub	1.00			4625.00	
Perforations	2.00			4627.00	
Bullnose	3.00			4630.00	42.00 Anchor Tool

Total Tool Length: 69.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

5-24s-21w Hodgeman, KS

3118 Cummings Rd.
Garden City, KS 67846

Helfrich #6-5

Job Ticket: 50500

DST#: 2

ATTN: Kevin Timson

Test Start: 2013.06.12 @ 00:24:45

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: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7200.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GOCM 10%gas, 27%oil, 63%mud	0.421
0.00	870' GIP	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

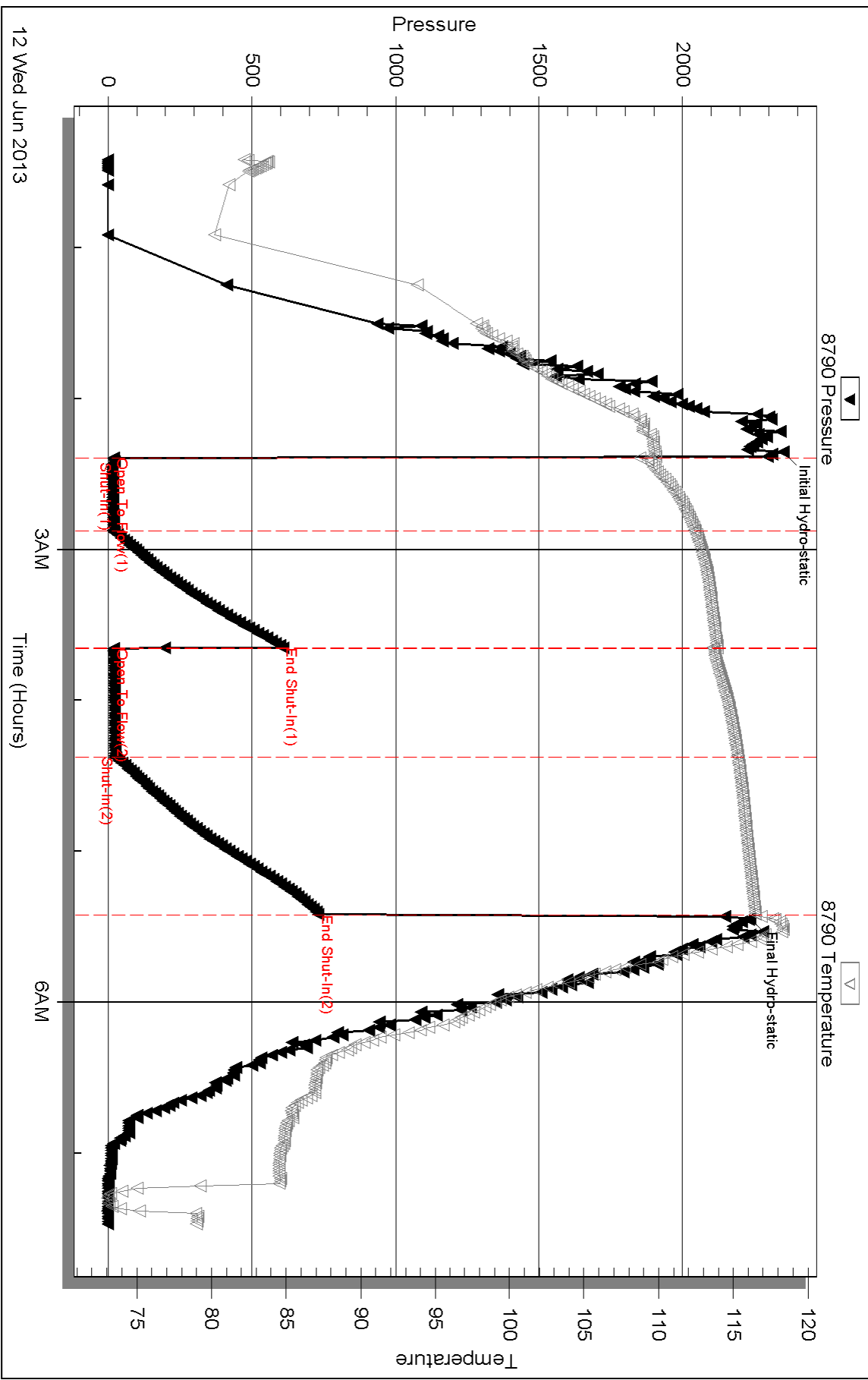
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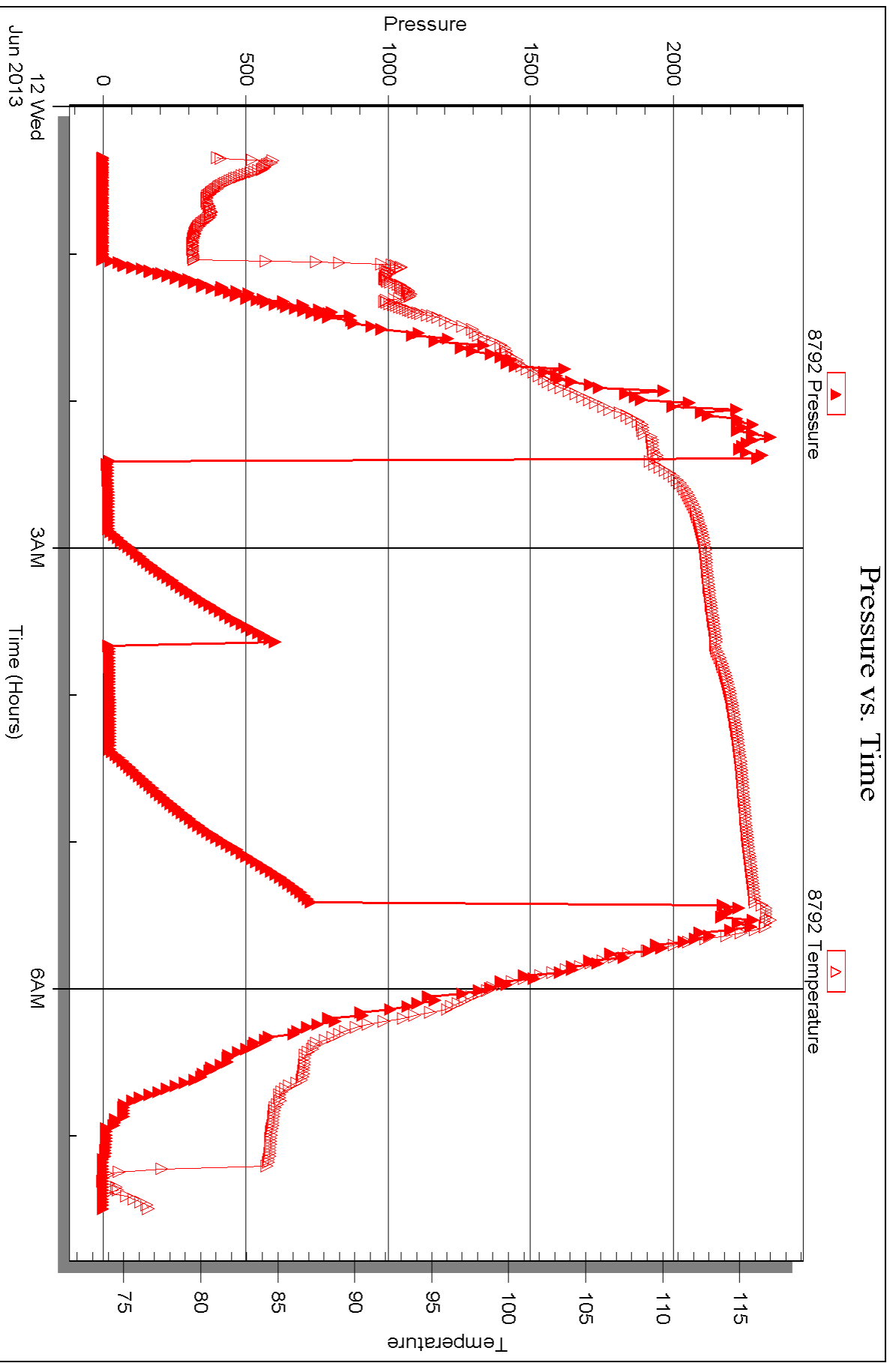
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

3118 Cummings Rd.
Garden City, KS 67846

ATTN: Kevin Timson

Helfrich #6-5

5-24s-21w Hodgeman,KS

Start Date: 2013.06.12 @ 17:09:33

End Date: 2013.06.12 @ 21:53:33

Job Ticket #: 52326 DST #: 3

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

Printed: 2013.06.14 @ 10:04:40



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

5-24s-21w Hodgeman,KS

3118 Cummings Rd.
Garden City, KS 67846

Helfrich #6-5

Job Ticket: 52326

DST#: 3

ATTN: Kevin Timson

Test Start: 2013.06.12 @ 17:09:33

Tool Information

Drill Pipe:	Length: 4617.00 ft	Diameter: 3.80 inches	Volume: 64.76 bbl	Tool Weight: 2400.00 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: 60000.00 lb
			<u>Total Volume: 64.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4628.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	71.00 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
Shut In Tool	5.00			4606.00	
Hydraulic tool	5.00			4611.00	
Jars	5.00			4616.00	
Safety Joint	2.00			4618.00	
packer	5.00			4623.00	
Packer	5.00			4628.00	27.00 Bottom Of Top Packer
Stubb	1.00			4629.00	
Recorder	0.00	8790	Inside	4629.00	
Recorder	0.00	8792	Outside	4629.00	
perforations	2.00			4631.00	
change Over Sub	0.50			4631.50	
drill Pipe	31.50			4663.00	
Change Over Sub	1.00			4664.00	
Perforations	5.00			4669.00	
Bullnose	3.00			4672.00	44.00 Anchor Tool

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

5-24s-21w Hodgeman, KS

3118 Cummings Rd.
Garden City, KS 67846

Helfrich #6-5

Job Ticket: 52326

DST#: 3

ATTN: Kevin Timson

Test Start: 2013.06.12 @ 17:09:33

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:

8900 ppm

Viscosity: 83.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8900.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
580.00	Drig mud 100% mud	8.136

Total Length: 580.00 ft

Total Volume: 8.136 bbl

Num Fluid Samples: 0

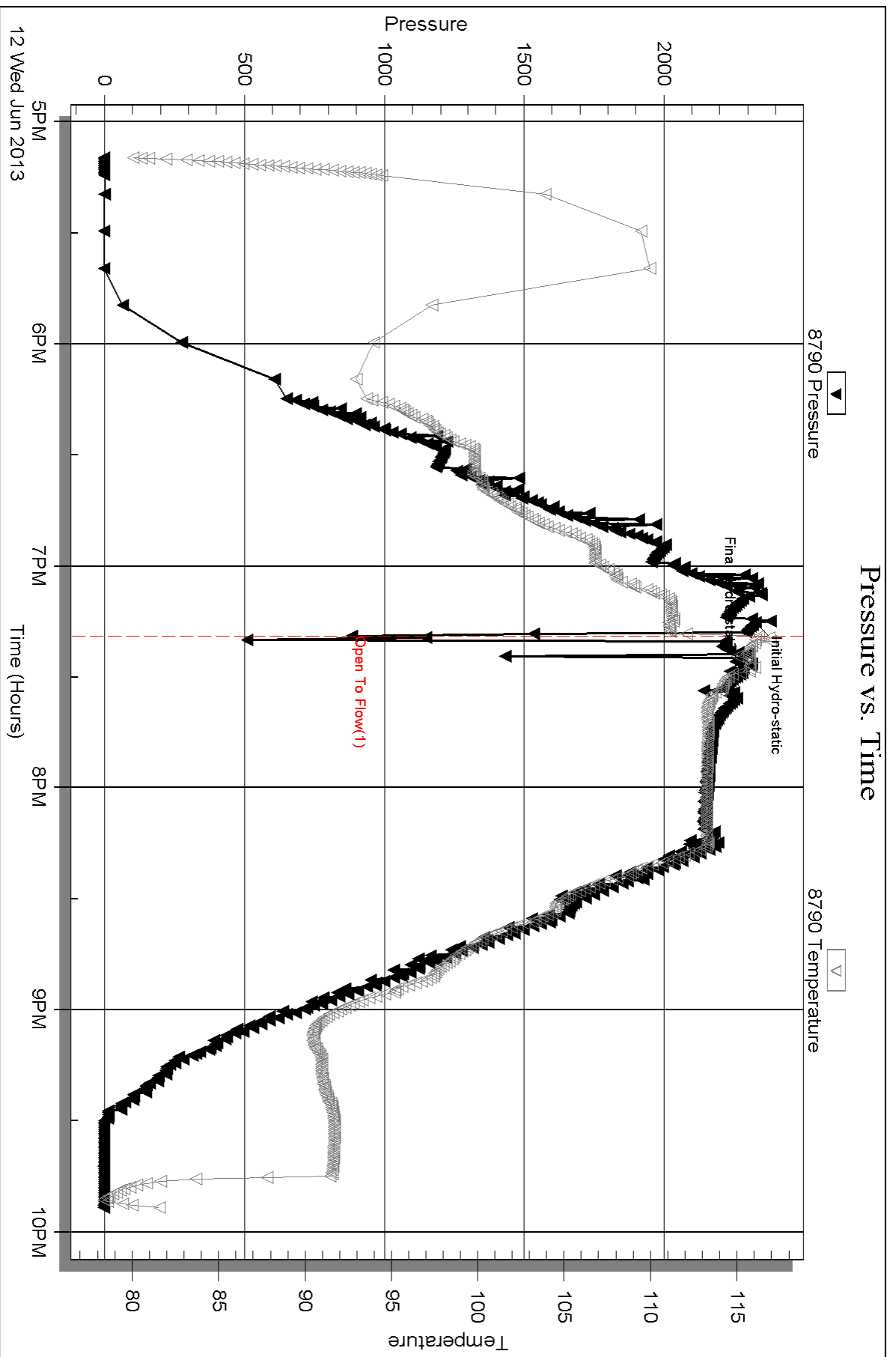
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

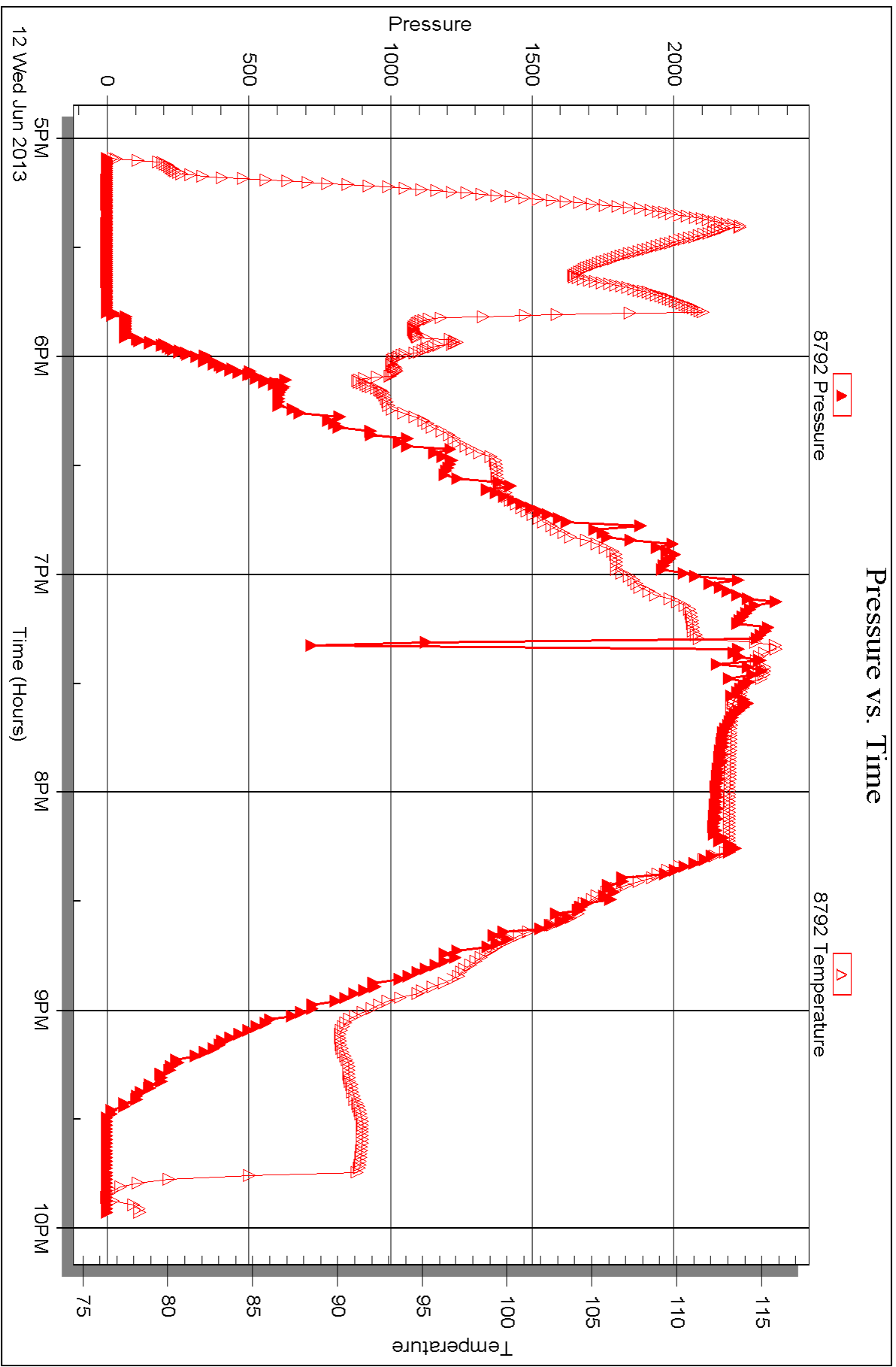


Serial #: 8792

Outside American Warrior, Inc.

Heilrich #6-5

DST Test Number: 3





DRILL STEM TEST REPORT

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

3118 Cummings Rd.
Garden City, KS 67846

ATTN: Kevin Timson

Helfrich #6-5

5-24s-21w Hodgeman,KS

Start Date: 2013.06.12 @ 22:17:12

End Date: 2013.06.13 @ 05:24:57

Job Ticket #: 52327 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.14 @ 10:03:50

American Warrior, Inc.

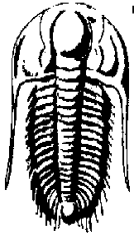
5-24s-21w Hodgeman,KS

Helfrich #6-5

DST # 4

Ft. Scott - Osage

2013.06.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

5-24s-21w Hodgeman,KS

3118 Cummings Rd.
Garden City, KS 67846

Helfrich #6-5

Job Ticket: 52327

DST#: 4

ATTN: Kevin Timson

Test Start: 2013.06.12 @ 22:17:12

Tool Information

Drill Pipe:	Length: 4585.00 ft	Diameter: 3.80 inches	Volume: 64.32 bbl	Tool Weight: 2400.00 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: 71000.00 lb
			<u>Total Volume: 64.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4589.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	110.00 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
Shut In Tool	5.00			4567.00	
Hydraulic tool	5.00			4572.00	
Jars	5.00			4577.00	
Safety Joint	2.00			4579.00	
packer	5.00			4584.00	
Packer	5.00			4589.00	27.00 Bottom Of Top Packer
Stubb	1.00			4590.00	
Recorder	0.00	8790	Inside	4590.00	
Recorder	0.00	8792	Outside	4590.00	
perforations	2.00			4592.00	
change Over Sub	0.50			4592.50	
drill Pipe	63.50			4656.00	
Change Over Sub	1.00			4657.00	
Perforations	12.00			4669.00	
Bullnose	3.00			4672.00	83.00 Anchor Tool

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

5-24s-21w Hodgeman, KS

3118 Cummings Rd.
Garden City, KS 67846

Helfrich #6-5

Job Ticket: 52327

DST#: 4

ATTN: Kevin Timson

Test Start: 2013.06.12 @ 22:17:12

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 81.00 sec/qt
Water Loss: 12.77 in³
Resistivity: ohm.m
Salinity: 8900.00 ppm
Filter Cake: 0.02 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 49000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
390.00	SLI OGMCW 3%oil, 10%gas, 10%mud, 77%w	5.471
320.00	OGMCW 13%oil, 20%gas, 25%mud, 42%w tr	4.489
240.00	GOWCM 17%gas, 19%oil, 25%w tr, 39%mud	3.367
0.00	255' GIP	0.000

Total Length: 950.00 ft Total Volume: 13.327 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

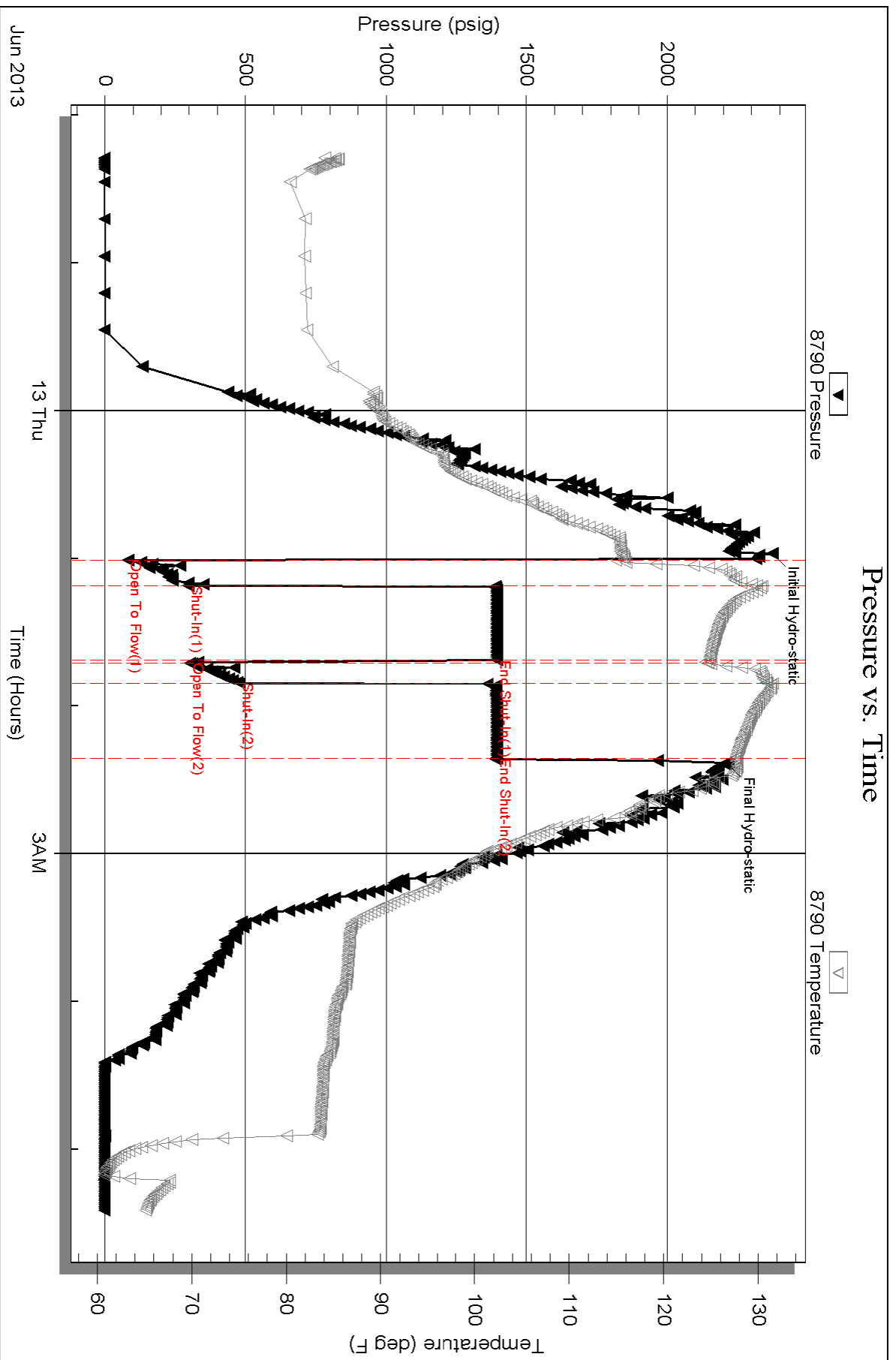
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .14 @ 79

Pressure vs. Time

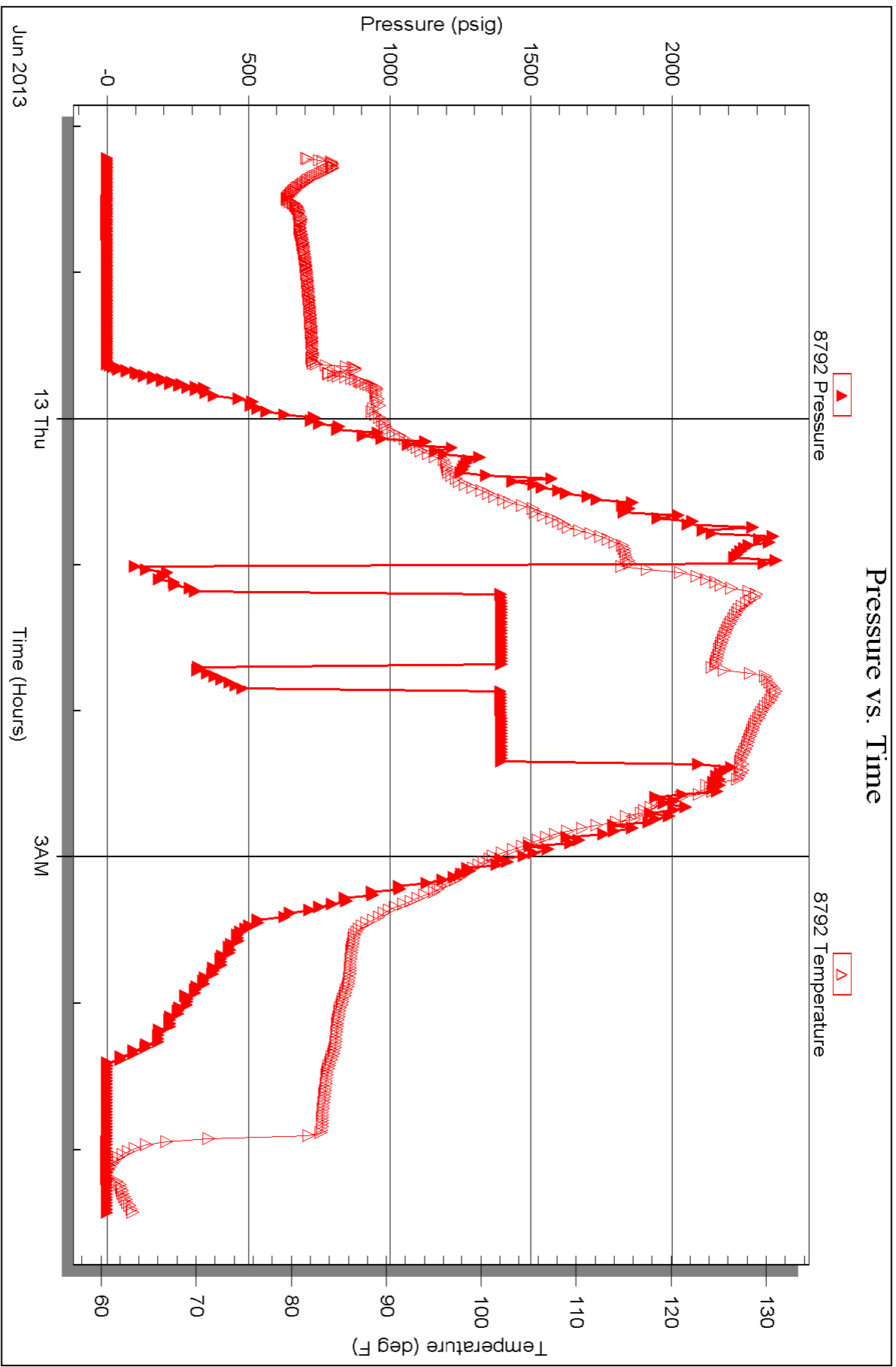


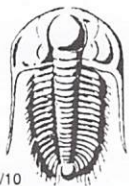
Serial #: 8792

Outside American Warrior, Inc.

Heirich #6-5

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50499

4/10

Well Name & No. Helfrich 6-5 Test No. 1 Date 6-10-13
 Company Am. Warrior, Inc. Elevation 2372 KB 2364 GL
 Address 3118 Cummings Rd. Garden City, KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke #8
 Location: Sec. 5 Twp. 24s. Rge. 21w. Co. Hodgeman State KS

Interval Tested 4405-4470 Zone Tested Altamont "A"
 Anchor Length 65 Drill Pipe Run 4400 Mud Wt. 9.5
 Top Packer Depth 4400 Drill Collars Run Ø Vis 63
 Bottom Packer Depth 4405 Wt. Pipe Run Ø WL 12.4
 Total Depth 4470 Chlorides 5800 ppm System LCM Trc.

Blow Description IF: Strong blow. BoB @ 12 min.
ISI: Weak blow. Surf - 1/2"
FF: Strong blow. BoB @ 15 min.
FST: Weak surf. blow

Rec	Feet of	%gas	%oil	%water	%mud
35	GIP				
35	OCM	Ø	85	Ø	15
65	OWCM	Ø	15	30	55
130	SLI OCM	Ø	10	45	45
375	VSLI OCMW	%gas Trc	%oil 93	%water 7	%mud

Rec Total 640 BHT 125 Gravity N/C API RW 0.16 @ 85 °F Chlorides 4300 ppm

(A) Initial Hydrostatic 2305 Test 1250 T-On Location 1800
 (B) First Initial Flow 33 Jars 250 T-Started 1858
 (C) First Final Flow 167 Safety Joint 75 T-Open 2037
 (D) Initial Shut-In 1138 Circ Sub T-Pulled 2340
 (E) Second Initial Flow 172 Hourly Standby T-Out 0218
 (F) Second Final Flow 332 Mileage 165 255.75 Comments _____
 (G) Final Shut-In 1100 Sampler _____
 (H) Final Hydrostatic 2149 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____

Initial Open 30 Extra Packer _____
 Initial Shut-In 45 Extra Recorder _____
 Final Flow 45 Day Standby _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1830.75 MP/DST Disc't _____

Approved By _____ Our Representative Ryan Reynolds
 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. 50500

4/10

Well Name & No. Helfrich 6-5 Test No. 2 Date 6-12-13
 Company Am. Warrior, Inc. Elevation 2372 KB 2364 GL
 Address 3118 Cummings Rd. Garden City, KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke 8
 Location: Sec. 5 Twp. 24s. Rge. 21w. Co. Hodgeman State KS

Interval Tested 4588-4630 Zone Tested Cherokee
 Anchor Length 42 Drill Pipe Run 4585 Mud Wt. 9.2
 Top Packer Depth 4583 Drill Collars Run Ø Vis 71
 Bottom Packer Depth 4588 Wt. Pipe Run Ø WL 12.0
 Total Depth 4630 Chlorides 7200 ppm System LCM Ø
 Blow Description IF: Strong blow. BoB @ 16 min. ISI: No blow
FF: Strong blow. BoB @ 30 sec. No GTS FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>870</u>	<u>GIP</u>	<u>100</u>			
<u>30</u>	<u>GOCM</u>	<u>10</u>	<u>27</u>	<u>6.3</u>	

Rec Total 900 BHT 118 Gravity N/C API RW N/C @ N/C °F Chlorides 7200 ppm

(A) Initial Hydrostatic <u>2349</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0000</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0025</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0224</u>
(D) Initial Shut-In <u>609</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0524</u>
(E) Second Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>0728</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>165</u> 255.75	Comments
(G) Final Shut-In <u>733</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2235</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1830.75</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1830.75</u>	

Approved By _____

Our Representative

Ryan Reynolds

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. 52326

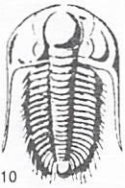
Well Name & No. Helfrich 6-5 Test No. 3 Date 6-12-13
 Company Am. Warrior, Inc. Elevation 2372 KB 2364 GL
 Address 3118 Cumming Rd. Garden City, KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke 8
 Location: Sec. S Twp. 24s. Rge. 21w. Co. Hodgeman State KS

Interval Tested 4628-4672 Zone Tested Osage
 Anchor Length 44' Drill Pipe Run 4677 Mud Wt. 9.1
 Top Packer Depth 4623 Drill Collars Run Ø Vis 83
 Bottom Packer Depth 4628 Wt. Pipe Run Ø WL 12.8
 Total Depth 4672 Chlorides 8900 ppm System LCM Ø
 Blow Description IF: Packer failure (Attempted to set 3X¹⁵)

Rec	Feet of	%gas	%oil	%water	%mud
<u>580</u>	<u>Dry mud</u>			<u>100</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 580 BHT 116 Gravity w/c API RW N/C @ N/C °F Chlorides 8900 ppm
 (A) Initial Hydrostatic 2327 Test 1050 T-On Location 1645
 (B) First Initial Flow 883 Jars 250 T-Started 1710
 (C) First Final Flow X Safety Joint 75 T-Open 1919
 (D) Initial Shut-In X Circ Sub T-Pulled 1940
 (E) Second Initial Flow X Hourly Standby T-Out 2154
 (F) Second Final Flow X Mileage 165 255.75 Comments _____
 (G) Final Shut-In X Sampler _____
 (H) Final Hydrostatic 2313 Straddle _____
 Initial Open X Shale Packer _____
 Initial Shut-In X Extra Packer _____
 Final Flow X Extra Recorder _____
 Final Shut-In X Day Standby _____
 Sub Total 1630.75 Accessibility _____
 Sub Total 1630.75 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1630.75
 MP/DST Disc't _____

Approved By _____ Our Representative Ryan Reynolds
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52327

Well Name & No. Helfrich 6-5 Test No. 4 Date 6-13-13
 Company Am. Warrior, Inc. Elevation 2372 KB 2364 GL
 Address 3118 Cummings, Rd. Garden City, KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke 8
 Location: Sec. 5 Twp. 24s. Rge. 21w. Co. Hodgeman State KS

Interval Tested 4589-4672 Zone Tested Ft. Scott. - Osage
 Anchor Length 83 Drill Pipe Run 4585 Mud Wt. 9.1
 Top Packer Depth 4584 Drill Collars Run Ø Vis 83
 Bottom Packer Depth 4589 Wt. Pipe Run Ø WL 12.8
 Total Depth 4672 Chlorides 8900 ppm System LCM Ø
 Blow Description IF: Strong blow, BOB @ 3 min. ISI: No blow
FF: Strong blow, BOB @ 4 min. FSI: Weak surf. blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>255</u>	<u>Feet of GTP</u>				
<u>240</u>	<u>Feet of GOWCM</u>	<u>17</u>	<u>19</u>	<u>25</u>	<u>39</u>
<u>320</u>	<u>Feet of OGMCW</u>	<u>20</u>	<u>13</u>	<u>42</u>	<u>25</u>
<u>390</u>	<u>Feet of SLI OGMCW</u>	<u>10</u>	<u>3</u>	<u>77</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1205 BHT 131 Gravity N/C API RW .14 @ 79 °F Chlorides 49000 ppm
 (A) Initial Hydrostatic 2373 Test 1250 T-On Location 1645
 (B) First Initial Flow 83 Jars 250 T-Started 2217
 (C) First Final Flow 296 Safety Joint 75 T-Open 0101
 (D) Initial Shut-In 1396 Circ Sub T-Pulled 0218
 (E) Second Initial Flow 303 Hourly Standby 2 1/2 T-Out 0525
 (F) Second Final Flow 479 Mileage _____
 (G) Final Shut-In 1395 Sampler _____
 (H) Final Hydrostatic 2216 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1575

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

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1575
 MP/DST Disc't _____

Approved By _____ Our Representative Ryan Reynolds
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CHARGE TO: AMERICAN WARRIOR INC
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 No 24803

PAGE 1 OF 2

SERVICE LOCATIONS
 1. NESS CITY, KS WELL/PROJECT NO. 6-5 LEASE HELFRICH COUNTY/PARISH HODGEMAN STATE Ks CITY _____ DATE 6-13-13 OWNER SAME
 2. TICKET TYPE SERVICE SALES CONTRACTOR DUKE DRIG #8 RIG NAME/NO. _____ SHIPPED VIA CT DELIVERED TO LOCATION ORDER NO. _____
 3. WELL TYPE OIL WELL CATEGORY DEVELOPMENT JOB PURPOSE 5 1/2" LONGSTRING WELL PERMIT NO. _____ WELL LOCATION HANSTON, KS - 8S, 4E, 2S, 14W, N120
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 115	50		MI		6.00	300.00
578		1			PUMP CHARGE	1	4667	SOB	FT	1500.00	1500.00
221		1			LIQUID KCL	2		Gal		25.00	50.00
281		1			MOD FLUSH	500		Gal		1.25	625.00
402		1			CENTRALIZERS	9		EA	5 1/2"	70.00	630.00
403		1			CEMENT BASKETS	2		EA		285.00	570.00
404		1			PORT COLLAR TOPJT # 78	1	1439	EA	FT	2650.00	2650.00
405		1			FORMATION PACKERSHOE	1		EA		1650.00	1650.00
406		1			LATCH DOWN PLUG - BAFFLE	1		EA		275.00	275.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X
 DATE SIGNED 6-13-13 TIME SIGNED 1830 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#1	8250.00
WE UNDERSTOOD AND MET YOUR NEEDS?				#2	4912.88
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	13,162.88
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	786.33
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	13,949.21
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR WANE WILSON APPROVAL _____

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 24803

CUSTOMER: AMERICAN WARRIOR TAX
WELL: HELFRICH 6-5
DATE: 6-13-13
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
325		1				STANDARD CEMENT	175	SKS			14.00	2450.00
276		1				FLOCELE	50	LBS			2.00	100.00
283		1				SALT	900	LBS			.20	180.00
284		1				CAISEAL	8	SKS	800	LBS	35.00	280.00
292		1				HALO-322	125	LBS			7.75	968.75
290		1				D-ADR	3	GAL			42.00	126.00
581		1				SERVICE CHARGE						
583		1				MILEAGE CHARGE						
						TOTAL WEIGHT	18325					
						LOADED MILES	50					
						CUBIC FEET	175				2.00	350.00
						TON MILES	458.13				1.00	458.13

CONTINUATION TOTAL 4912.88

JOB LOG

SWIFT Services, Inc.

DATE 6-13-13 PAGE NO. 1

CUSTOMER AMERICAN WOODROW INC WELL NO. 6-5 LEASE HELFRICH JOB TYPE 5 1/2" LONGSTRING TICKET NO. 24803

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1800							ON LOCATION
	1915							START 5 1/2" CASING IN WELL
								TD - 4672 SET = 4667
								TP - 4673 5 1/2" 15.5
								ST - 21'
								CENTRALIZERS - 1, 3, 5, 7, 9, 11, 13, 15, 17
								CMT BSKTS - 1, 78
								PORT COLLAR = 1439 TOPT # 78
	2100						1200	DROP BALL - CIRCULATE - SET PACKERSHOE
	2150	7	12		✓		450	PUMP 500 GAL MUDFLUSH
	2152	7	20		✓		450	PUMP 20 BBLs KCL - FLUSH
	2155		7-5					PLUG RH (30 SKS) (MH 20 SKS)
	2200	4 1/4	30		✓		300	MIX CEMENT - 125 SKS EA-2 @ 15.4 PPG
	2208							WASH OUT PUMP - LINES
	2208							RELEASE CATCH DOWN PLUG
	2210	7	0		✓			DISPLACE PLUG
	2225	6	110.7				1500	PLUG DOWN - PSE UP LATCH IN PLUG
	2227							OK RELEASE PSE - HELD
								WASH TRUCK
	2300							JOB COMPLETE
								THANK YOU WAYNE, JEFF, ISAAC



CHARGE TO: *American Warrior*
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 No 24393

PAGE 1 OF 1

1. SERVICE LOCATIONS <i>Ness City KS</i>	WELL/PROJECT NO. <i>6-5</i>	LEASE <i>Hofrich</i>	COUNTY/PARISH <i>Hodgeman</i>	STATE <i>KS</i>	CITY <i>Houston</i>	DATE <i>25 Jun 13</i>	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>H-D</i>	RIG NAME/NO.	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>Location</i>	ORDER NO.	
3.	WELL TYPE <i>oil</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>cement port collar</i>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE	50	mi			6.00	300.00
576D		1			Pump Charge	1	ea.			1500.00	1500.00
330		1			SMD cement	120	sk			17.00	2040.00
276		1			Floacle	50	lb			2.00	100.00
290		1			D-AIR	2	gal			42.00	84.00
104		1			Port collar tool rental	1	ea			250.00	250.00
583		1			Drayage	175	sk	435.36	TM	1.00	435.36
581		1			service charge	175	sk			2.00	350.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X
 DATE SIGNED: TIME SIGNED: A.M. P.M.
12:30

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5059.36
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				184.31
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: *Adyall* APPROVAL:

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 25 Jun 13 PAGE NO. 7

CUSTOMER American Warrior WELL NO. 6-5 LEASE Helfrich JOB TYPE cement port collar TICKET NO. 24393

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk 5mD w/ 1/4 # Flocele 2 3/8 x 5 1/2" casing port collar 1439 80 bbl dr. fling mud on H-D truck
	1000							on loc TRK 114 chain up
	1053					1000	1000	test to 1000 psi - held
	1057	3 1/2				400	400	inj 3 1/2 @ 400 pumping mud
		3 1/2	5			400		- fluid to surface -
	1120	3 1/2	80			400		
	1121	3 1/2				400		mix 5mD cement @ 11.2 ppg
		3 1/2	64			450		- cement to surface -
								(120 sks milled 20 top)
	1140	3 1/2	5			450		flush w/ H ₂ O close port collar
	1150							Run 4 joints
	1158		20					Reverse hole clean - 2 cement flags - pull tool
	1210							wash truck Rack up
	1240							job complete Fluke TJ, Dave & Blaise

Geological Report

American Warrior, Inc.

Helfrich #6-5

335' FSL & 2039' FEL

Sec. 5, T24s, R21w

Hodgeman County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Helfrich #6-5
335' FSL & 2039' FEL
Sec. 5, T24s, R21w
Hodgeman County, Kansas
API # 15-083-21885-0000

Drilling Contractor: Duke Drilling Co. Rig #8

Geologist: Kevin Timson

Spud Date: June 4, 2013

Completion Date: June 13, 2013

Elevation 2365' G.L.
2373' K.B.

Directions: From Hanston, KS at intersection of Hwy 156 and 228 Rd South. Go 8 miles South on 228 Rd to H Rd. Now Go 4 miles East on H Rd to 232 Rd. Now go 2 miles South on 232 Rd to F Rd. Go West 1 mile on F Rd and North into location.

Casing: #23 8 5/8" surface casing @ 280 with 175 sacks Class A, 3% c.c, 2% gel. #15.5 5 1/2" production casing @ 4667 with 125 sacks EA-2. Port Collar @ 1439 and Packer Shoe @ 4667.

Samples: 3850' to RTD 10' Wet & Dry

Drilling Time: 3850' to RTD

Electric Logs: Pioneer-Stacked-Micro "C. Desaire"

Drillstem Tests: Four, Trilobite Testing, Inc. "Ryan Reynolds"

Problems: None

Remarks: None

Formation Tops

Formation

Anhydrite

Base

Heebner

Douglas

Lansing

Stark

BKC

Marmaton

Pawnee

Fort Scott

Cherokee

Osage

RTD

LTD

American Warrior, Inc.

Helfrich #6-5

Sec. 5, T24s, R21w

335' FSL & 2039' FEL

1454' +919

1467' +906

3950' -1577

3980' -1607

4053' -1680

4283' -1910

4401' -2028

4423' -2050

4519' -2146

4574' -2201

4599' -2226

4667' -2294

4672' -2299

4671' -2298

Sample Zone Descriptions

Mississippian Osage (4667' -2294): Covered in DST #4

Chert – Triptolitic, weathered, fair vuggy porosity. Fair stain and fair saturation. Show of free oil. Strong slightly sour odor.

Altamont 'A' (4450' -2077):

Covered in DST #1

Limestone tan. Med to sub crystalline. Good intercrystalline porosity. Fair vuggy porosity. Good stain. Good saturation. Good show of free oil in porosity. Slight odor.

Cherokee Limestone (4599' -2226):Not Tested

Limestone tan/brown. Med to sub xln. Pin point vuggy porosity. Poor intercrystalline porosity. Fair stain. Gas bubbles and free oil escaping through porosity. Poor saturation. Fair show of free oil. Fair odor.

Drill Stem Tests

Trilobite Testing Inc.

"Ryan Reynolds"

DST #1

Altamont 'A'

Interval (4405' – 4470') Anchor Length 65'

IHP	- 2305 #	
IFP	- 30" – BOB in 12 min	33-167 #
ISI	- 45" – WSB built to 1/2"	1138 #
FFP	- 45" – BOB in 15 min	172-332 #
FSIP	- 60" – WSB	1100 #
FHP	- 2149 #	
BHT	- 125 ° F	

Recovery: 35' GIP
35' OCM (85% Oil)
65' OWCM (15% Oil)
130' SOCWM (10% Oil)
375' VSOCMW (Trace Oil)

DST #2

Fort Scott Limestone to Cherokee Limestone

Interval (4588' – 4630') Anchor Length 42'

IHP	- 2349 #	
IFP	- 30" – BOB in 16 min	19-19 #
ISI	- 45" – No return	609 #
FFP	- 45" – BOB in 30 sec	19-24 #
FSIP	- 60" – No Return	733 #
FHP	- 2235 #	
BHT	- 118 ° F	

Recovery: 870' GIP
30 GOCM (27% Oil)

DST #3**Mississippian Osage**

Interval (4628' – 4672') Anchor Length 44'

Misrun Packer Failure**DST #4****Mississippian Osage**

Interval (4589' – 4672')

IHP - 2373 #

IFP - 10" – BOB in 3 min

ISI - 30" – No Return

FFP - 10" – BOB in 4 min

FSIP - 30" – WSB

FHP - 2216 #

BHT - 131 ° F

83-296 #

1396 #

303-479 #

1385 #

Recovery: 255' GIP

240' GOWCM (19% Oil)

320' OGMCW (13% Oil)

390' SOGMCW (3% Oil)

Structural Comparison

	American Warrior, Inc. Helfrich #6-5 Sec. 5, T24s, R21w 335' FSL & 2039' FEL		American Warrior, Inc. Helfrich-Gleason #1-5 Sec. 5, T24s, R21w 1232' FSL & 2506' FEL		American Warrior, Inc. Helfrich #5-5 Sec. 5, T24s, R21w 748' FSL & 2040' FEL
Formation					
Heebner	3950' -1577	-11	3940' -1566	-6	3944' -1571
Douglas	3980' -1607	-11	3970' -1596	-7	3973' -1600
Lansing	4053' -1680	-14	4040' -1666	-7	4046' -1673
BKC	4401' -2028	-10	4392' -2018	-3	4398' -2025
Marmaton	4423' -2050	-5	4419' -2045	-1	4422' -2049
Pawnee	4519' -2146	-10	4510' -2136	-5	4514' -2141
Fort Scott	4574' -2201	-12	4563' -2189	-3	4571' -2198
Cherokee	4599' -2226	-12	4588' -2214	-2	4597' -2224
Osage	4667' -2294	-10	4658' -2284	-3	4664' -2291