



DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City, KS 67846

ATTN: Scott Alberg

Scheetz #5-22

22-11s-33w Logan,KS

Start Date: 2014.03.09 @ 06:05:00

End Date: 2014.03.09 @ 14:09:12

Job Ticket #: 56648 DST #: 1

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

Printed: 2014.03.19 @ 17:27:59

American Warrior
22-11s-33w Logan,KS
Scheetz #5-22
DST # 1
A - B Lansing
2014.03.09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior
 PO Box 399
 Garden City, KS 67846
 ATTN: Scott Alberg

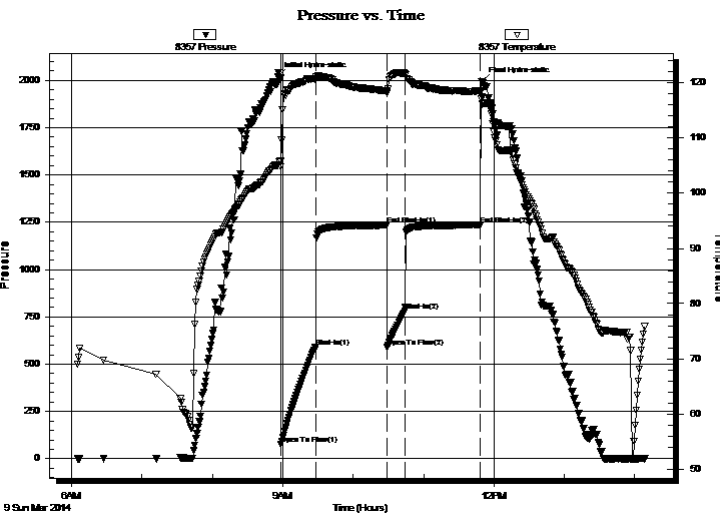
22-11s-33w Logan, KS
Scheetz #5-22
 Job Ticket: 56648 **DST#: 1**
 Test Start: 2014.03.09 @ 06:05:00

GENERAL INFORMATION:

Formation: **A - B Lansing**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:58:18
 Time Test Ended: 14:09:12
 Interval: **4096.00 ft (KB) To 4140.00 ft (KB) (TVD)**
 Total Depth: 4140.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 3151.00 ft (KB)
 3143.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8357 Inside
 Press@RunDepth: 780.46 psig @ 4098.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.09 End Date: 2014.03.09 Last Calib.: 2014.03.09
 Start Time: 06:05:05 End Time: 14:09:12 Time On Btm: 2014.03.09 @ 08:55:48
 Time Off Btm: 2014.03.09 @ 11:49:30

TEST COMMENT: 30- B.O.B. @ 2 1/2 min. Tool slid 3-4'.
 60- No return.
 15- B.O.B. @ 3 min.
 60- No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2020.13	105.09	Initial Hydro-static
3	76.92	104.85	Open To Flow (1)
33	591.84	120.81	Shut-In(1)
93	1235.32	118.52	End Shut-In(1)
94	590.98	118.17	Open To Flow (2)
109	780.46	121.74	Shut-In(2)
173	1235.48	118.55	End Shut-In(2)
174	1995.09	117.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1003.00	MW 5m 95w	14.22
314.00	MW 15m 85w	4.45
344.00	MW 45m 55w	4.88

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior
 PO Box 399
 Garden City, KS 67846
 ATTN: Scott Alberg

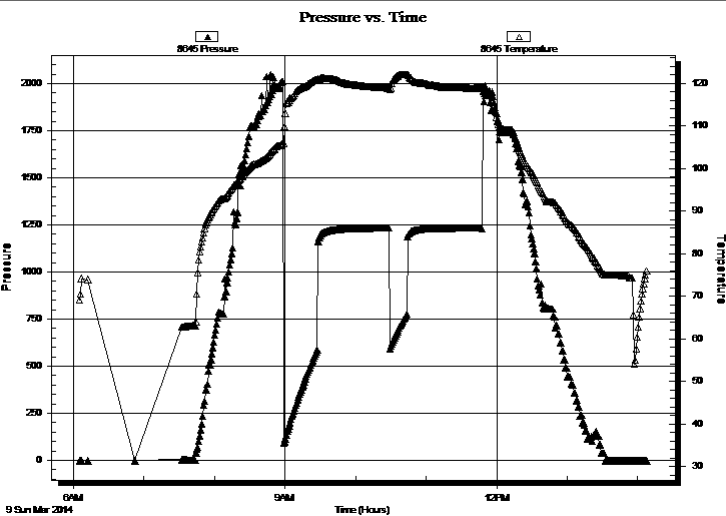
22-11s-33w Logan,KS
Scheetz #5-22
 Job Ticket: 56648 **DST#: 1**
 Test Start: 2014.03.09 @ 06:05:00

GENERAL INFORMATION:

Formation: **A - B Lansing**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:58:18 Tester: Chuck Smith
 Time Test Ended: 14:09:12 Unit No: 62
 Interval: **4096.00 ft (KB) To 4140.00 ft (KB) (TVD)** Reference Elevations: 3151.00 ft (KB)
 Total Depth: 4140.00 ft (KB) (TVD) 3143.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8645 Outside
 Press@RunDepth: psig @ 4098.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.09 End Date: 2014.03.09 Last Calib.: 2014.03.09
 Start Time: 06:05:23 End Time: 14:08:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- B.O.B. @ 2 1/2 min. Tool slid 3-4'.
 60- No return.
 15- B.O.B. @ 3 min.
 60- No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1003.00	MW 5m 95w	14.22
314.00	MW 15m 85w	4.45
344.00	MW 45m 55w	4.88

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

22-11s-33w Logan,KS

PO Box 399
Garden City, KS 67846

Scheetz #5-22

Job Ticket: 56648

DST#: 1

ATTN: Scott Alberg

Test Start: 2014.03.09 @ 06:05:00

Tool Information

Drill Pipe:	Length: 4075.00 ft	Diameter: 3.82 inches	Volume: 57.76 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 57.76 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.50 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	4096.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	71.50 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			4069.50	
Shut In Tool	5.00			4074.50	
Hydraulic tool	5.00			4079.50	
Jars	5.00			4084.50	
Safety Joint	2.50			4087.00	
Packer	5.00			4092.00	27.50 Bottom Of Top Packer
Packer	4.00			4096.00	
Stubb	1.00			4097.00	
Perforations	1.00			4098.00	
Recorder	0.00	8357	Inside	4098.00	
Recorder	0.00	8645	Outside	4098.00	
Perforations	6.00			4104.00	
Change Over Sub	1.00			4105.00	
Drill Pipe	31.00			4136.00	
Change Over Sub	1.00			4137.00	
Bullnose	3.00			4140.00	44.00 Bottom Packers & Anchor
Total Tool Length:	71.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

22-11s-33w Logan,KS

PO Box 399
Garden City, KS 67846

Scheetz #5-22

Job Ticket: 56648

DST#: 1

ATTN: Scott Alberg

Test Start: 2014.03.09 @ 06:05:00

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:

52000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1003.00	MW 5m 95w	14.218
314.00	MW 15m 85w	4.451
344.00	MW 45m 55w	4.876

Total Length: 1661.00 ft Total Volume: 23.545 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

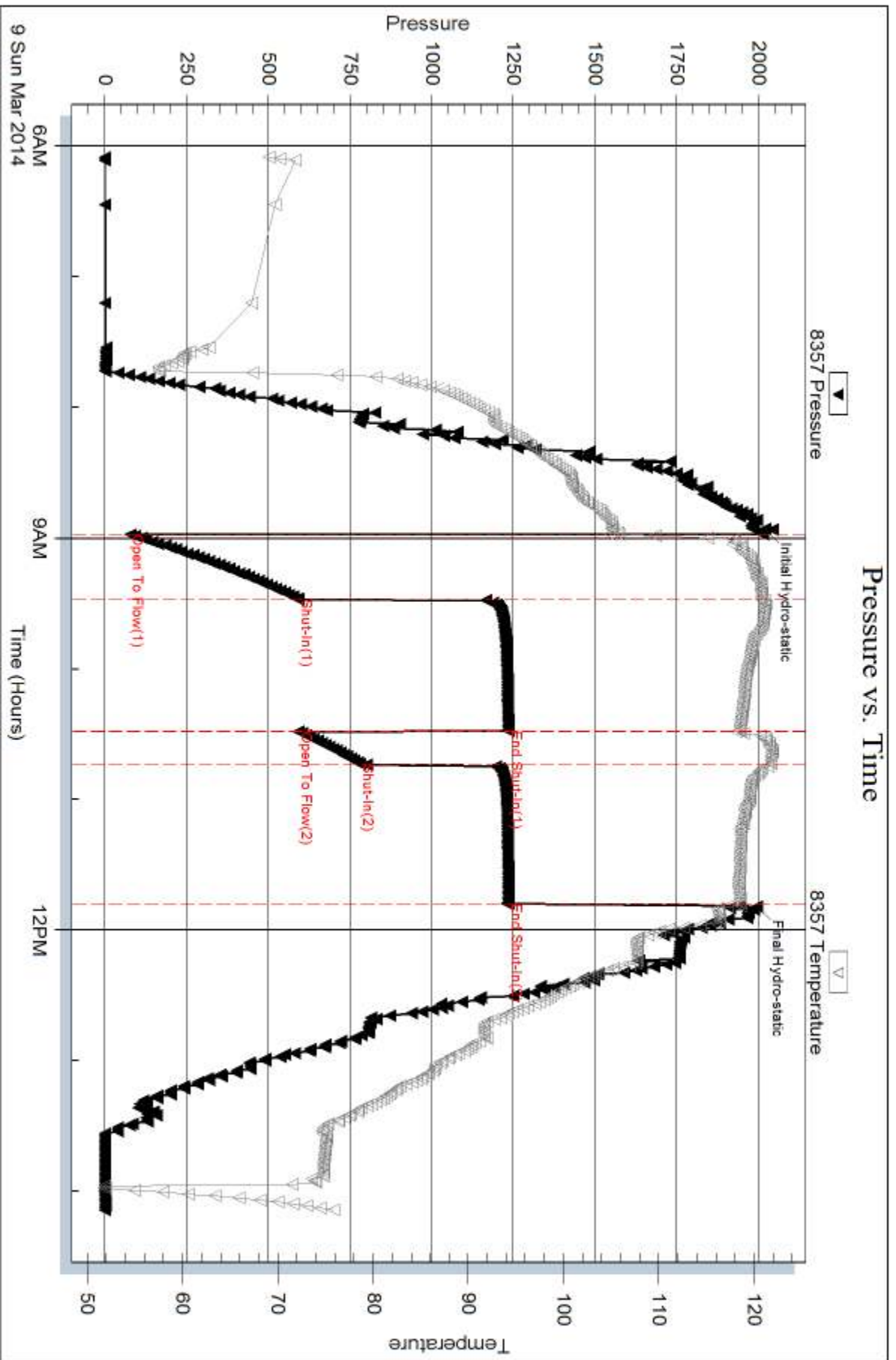
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .155 @ 62 Degrees F = 52000 PPM

Pressure vs. Time

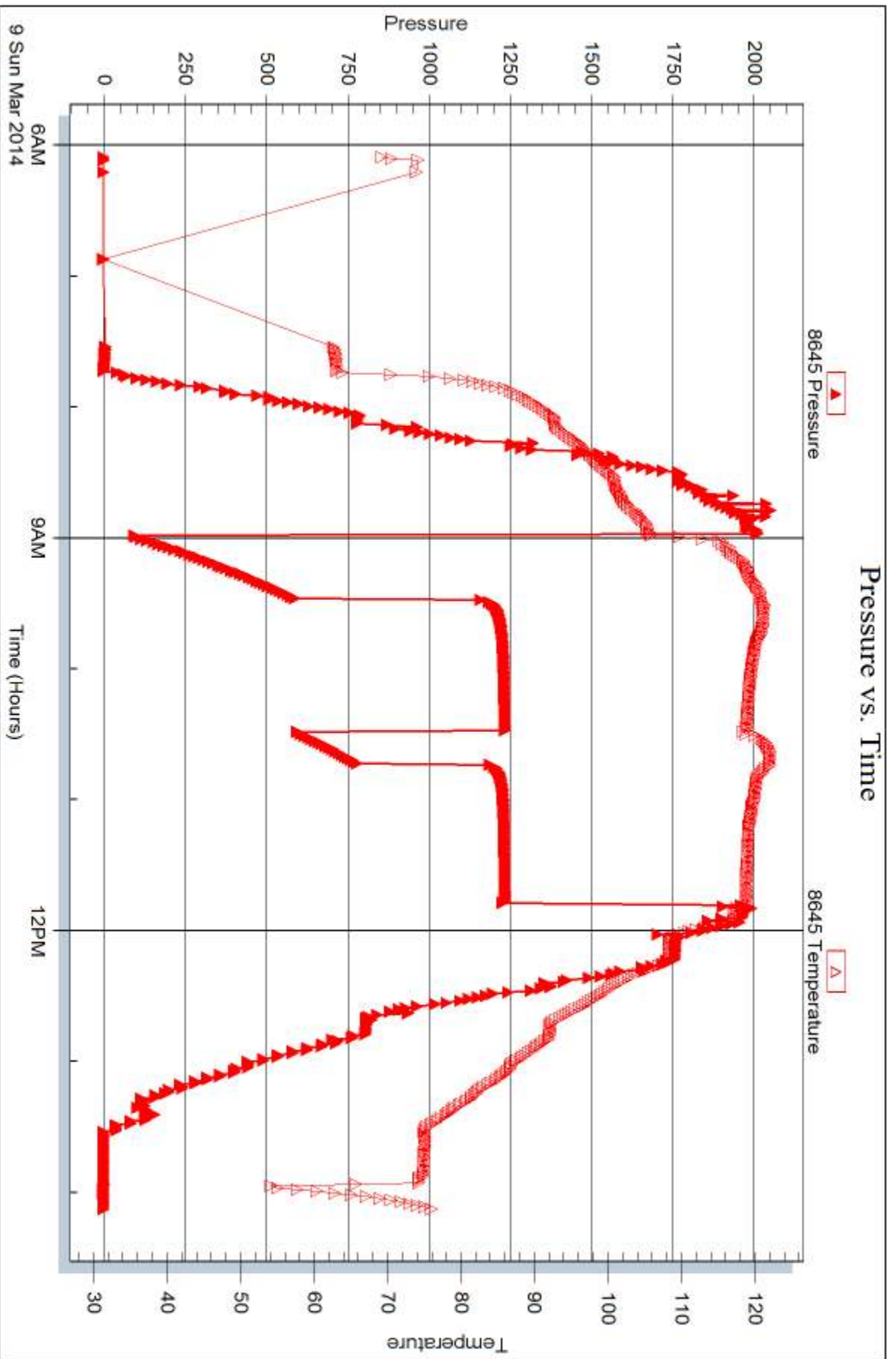


Serial #: 8645

Outside American Warrior

Scheetz #5-22

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56648

Printed: 2014.03.19 @ 17:28:01



DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City, KS 67846

ATTN: Scott Alberg

Scheetz #5-22

22-11s-33w Logan,KS

Start Date: 2014.03.10 @ 08:04:00

End Date: 2014.03.10 @ 14:21:24

Job Ticket #: 56649 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.19 @ 17:27:34



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior
 PO Box 399
 Garden City, KS 67846
 ATTN: Scott Alberg

22-11s-33w Logan,KS

Scheetz #5-22

Job Ticket: 56649

DST#: 2

Test Start: 2014.03.10 @ 08:04:00

GENERAL INFORMATION:

Formation: **'H' Lansing**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:39:54
 Time Test Ended: 14:21:24
 Interval: **4227.00 ft (KB) To 4262.00 ft (KB) (TVD)**
 Total Depth: 4262.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 3151.00 ft (KB)
 3143.00 ft (CF)
 KB to GR/CF: 8.00 ft

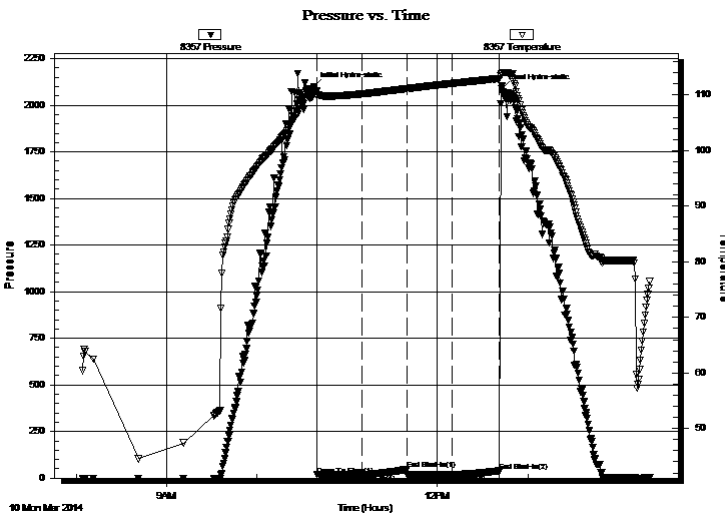
Serial #: 8357

Inside

Press@RunDepth: 19.35 psig @ 4230.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.10 End Date: 2014.03.10 Last Calib.: 2014.03.10
 Start Time: 08:04:05 End Time: 14:21:24 Time On Btm: 2014.03.10 @ 10:37:36
 Time Off Btm: 2014.03.10 @ 12:42:42

TEST COMMENT: Weak surface blow .
 No return.
 No blow .
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.41	110.82	Initial Hydro-static
3	17.49	109.78	Open To Flow (1)
32	19.31	110.18	Shut-In(1)
63	47.89	111.14	End Shut-In(1)
63	19.04	111.13	Open To Flow (2)
93	19.35	112.07	Shut-In(2)
124	39.35	112.95	End Shut-In(2)
126	2090.45	113.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	M 100m Oil spots	0.01

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

American Warrior
 PO Box 399
 Garden City, KS 67846
 ATTN: Scott Alberg

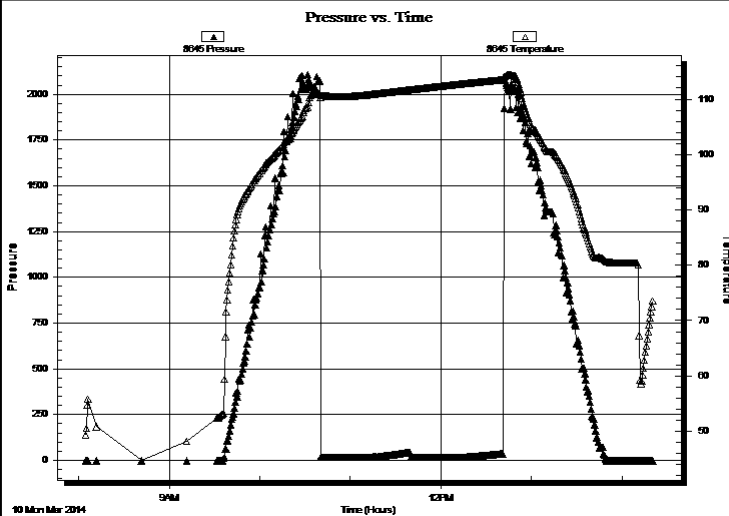
22-11s-33w Logan,KS
Scheetz #5-22
 Job Ticket: 56649 **DST#: 2**
 Test Start: 2014.03.10 @ 08:04:00

GENERAL INFORMATION:

Formation: **'H' Lansing**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Time Tool Opened: 10:39:54
 Time Test Ended: 14:21:24
 Unit No: 62
Interval: 4227.00 ft (KB) To 4262.00 ft (KB) (TVD)
 Reference Elevations: 3151.00 ft (KB)
 Total Depth: 4262.00 ft (KB) (TVD) 3143.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8645 Outside
 Press@RunDepth: psig @ 4230.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.10 End Date: 2014.03.10 Last Calib.: 2014.03.10
 Start Time: 08:04:35 End Time: 14:20:42 Time On Btm:
 Time Off Btm:

TEST COMMENT: Weak surface blow .
 No return.
 No blow .
 No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	M 100m Oil spots	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

22-11s-33w Logan,KS

PO Box 399
Garden City, KS 67846

Scheetz #5-22

Job Ticket: 56649

DST#: 2

ATTN: Scott Alberg

Test Start: 2014.03.10 @ 08:04:00

Tool Information

Drill Pipe:	Length: 4228.00 ft	Diameter: 3.82 inches	Volume: 59.93 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 59.93 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.50 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4227.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	62.50 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			4200.50	
Shut In Tool	5.00			4205.50	
Hydraulic tool	5.00			4210.50	
Jars	5.00			4215.50	
Safety Joint	2.50			4218.00	
Packer	5.00			4223.00	27.50 Bottom Of Top Packer
Packer	4.00			4227.00	
Stubb	1.00			4228.00	
Perforations	2.00			4230.00	
Recorder	0.00	8357	Inside	4230.00	
Recorder	0.00	8645	Outside	4230.00	
Perforations	29.00			4259.00	
Bullnose	3.00			4262.00	35.00 Bottom Packers & Anchor

Total Tool Length: 62.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

22-11s-33w Logan,KS

PO Box 399
Garden City, KS 67846

Scheetz #5-22

Job Ticket: 56649

DST#: 2

ATTN: Scott Alberg

Test Start: 2014.03.10 @ 08:04:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M 100m Oil spots	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0

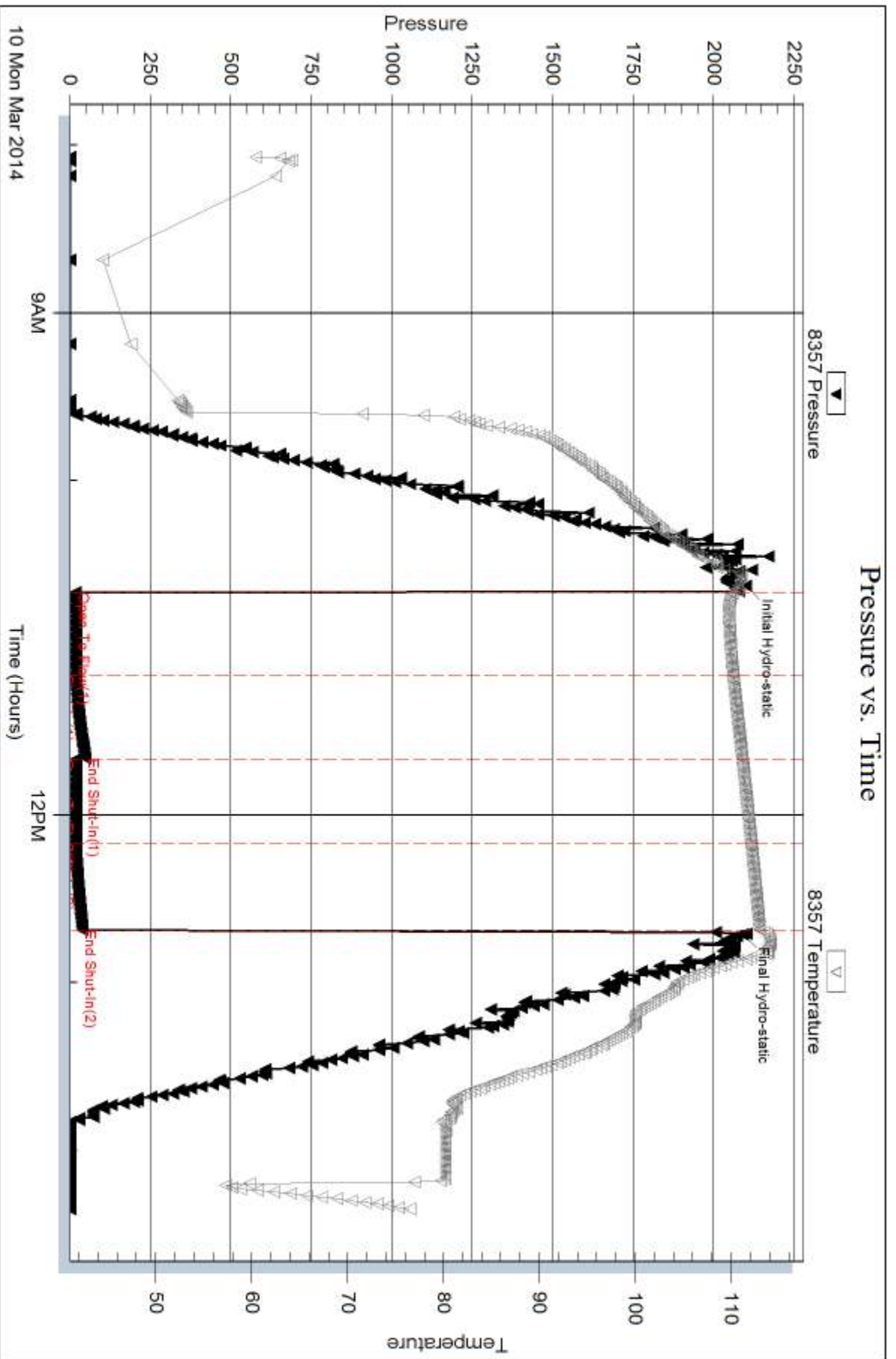
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

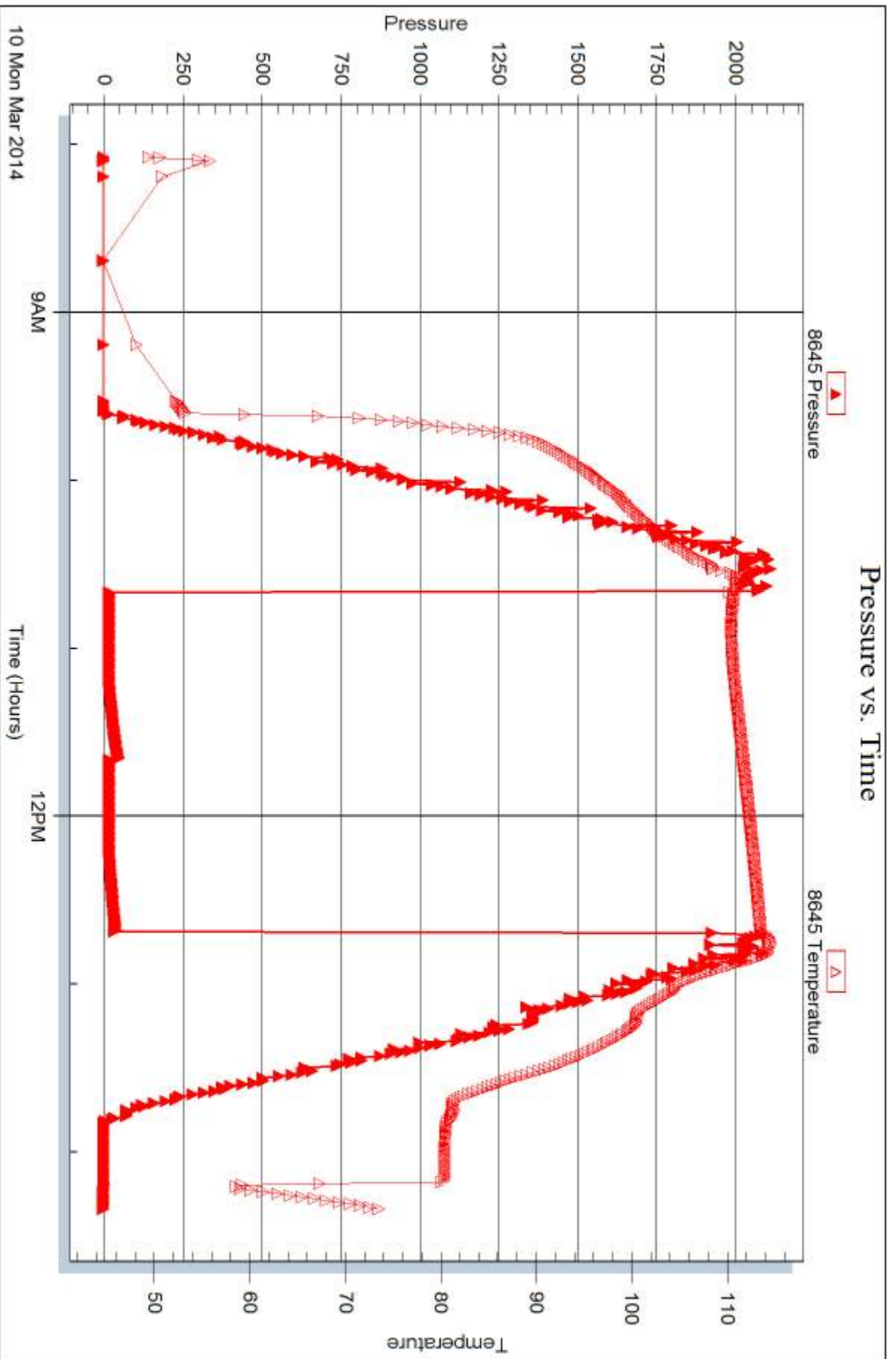


Serial #: 8645

Outside American Warrior

Scheetz #5-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 56649

Printed: 2014.03.19 @ 17:27:37



DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City, KS 67846

ATTN: Scott Alberg

Scheetz #5-22

22-11s-33w Logan,KS

Start Date: 2014.03.11 @ 00:45:00

End Date: 2014.03.11 @ 09:11:06

Job Ticket #: 56650 DST #: 3

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

Printed: 2014.03.19 @ 17:26:03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior
 PO Box 399
 Garden City, KS 67846
 ATTN: Scott Alberg

22-11s-33w Logan,KS

Scheetz #5-22

Job Ticket: 56650

DST#: 3

Test Start: 2014.03.11 @ 00:45:00

GENERAL INFORMATION:

Formation: **'I- J' Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:26:42

Time Test Ended: 09:11:06

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4260.00 ft (KB) To 4314.00 ft (KB) (TVD)

Total Depth: 4314.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3151.00 ft (KB)

3143.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8357

Inside

Press@RunDepth: 41.41 psig @ 4262.00 ft (KB)

Start Date: 2014.03.11

End Date:

2014.03.11

Start Time: 00:45:05

End Time:

09:11:06

Capacity: 8000.00 psig

Last Calib.:

2014.03.11

Time On Btm:

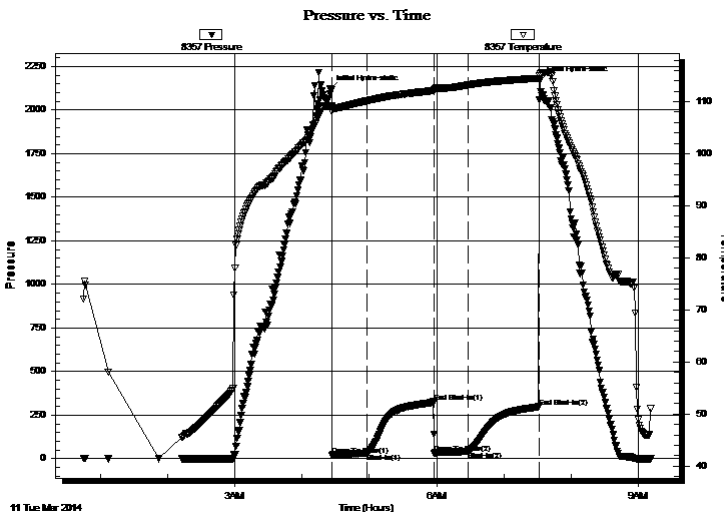
2014.03.11 @ 04:25:12

Time Off Btm:

2014.03.11 @ 07:32:06

TEST COMMENT: 4" Blow .
 No return.
 6" Blow .
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.57	109.12	Initial Hydro-static
2	21.24	108.07	Open To Flow (1)
33	31.17	110.15	Shut-In(1)
93	326.59	112.13	End Shut-In(1)
93	29.81	112.35	Open To Flow (2)
124	41.41	113.21	Shut-In(2)
186	297.46	114.50	End Shut-In(2)
187	2169.40	115.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GOCM 5g 5o 90m	0.71
0.00	70' Weak GIP	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior
 PO Box 399
 Garden City, KS 67846
 ATTN: Scott Alberg

22-11s-33w Logan,KS

Scheetz #5-22

Job Ticket: 56650 **DST#: 3**

Test Start: 2014.03.11 @ 00:45:00

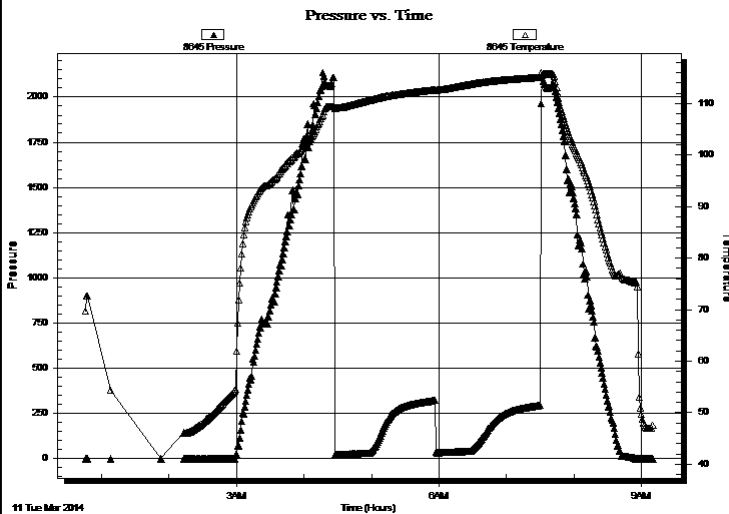
GENERAL INFORMATION:

Formation: **'I- J' Lansing**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 04:26:42 Tester: Chuck Smith
 Time Test Ended: 09:11:06 Unit No: 62
 Interval: **4260.00 ft (KB) To 4314.00 ft (KB) (TVD)** Reference Elevations: 3151.00 ft (KB)
 Total Depth: 4314.00 ft (KB) (TVD) 3143.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8645 Outside

Press@RunDepth: psig @ 4262.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.11 End Date: 2014.03.11 Last Calib.: 2014.03.11
 Start Time: 00:45:50 End Time: 09:10:09 Time On Btm:
 Time Off Btm:

TEST COMMENT: 4" Blow .
 No return.
 6" Blow .
 No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GOCM 5g 5o 90m	0.71
0.00	70' Weak 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

22-11s-33w Logan,KS

PO Box 399
Garden City, KS 67846

Scheetz #5-22

Job Ticket: 56650

DST#: 3

ATTN: Scott Alberg

Test Start: 2014.03.11 @ 00:45:00

Tool Information

Drill Pipe:	Length: 4263.00 ft	Diameter: 3.82 inches	Volume: 60.43 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 60.43 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.50 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4260.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	81.50 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			4233.50	
Shut In Tool	5.00			4238.50	
Hydraulic tool	5.00			4243.50	
Jars	5.00			4248.50	
Safety Joint	2.50			4251.00	
Packer	5.00			4256.00	27.50 Bottom Of Top Packer
Packer	4.00			4260.00	
Stubb	1.00			4261.00	
Perforations	1.00			4262.00	
Recorder	0.00	8357	Inside	4262.00	
Recorder	0.00	8645	Outside	4262.00	
Perforations	16.00			4278.00	
Change Over Sub	1.00			4279.00	
Drill Pipe	31.00			4310.00	
Change Over Sub	1.00			4311.00	
Bullnose	3.00			4314.00	54.00 Bottom Packers & Anchor
Total Tool Length:	81.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

22-11s-33w Logan,KS

PO Box 399
Garden City, KS 67846

Scheetz #5-22

Job Ticket: 56650

DST#: 3

ATTN: Scott Alberg

Test Start: 2014.03.11 @ 00:45:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	GOCM 5g 5o 90m	0.709
0.00	70' Weak GIP	0.000

Total Length: 50.00 ft Total Volume: 0.709 bbl

Num Fluid Samples: 0

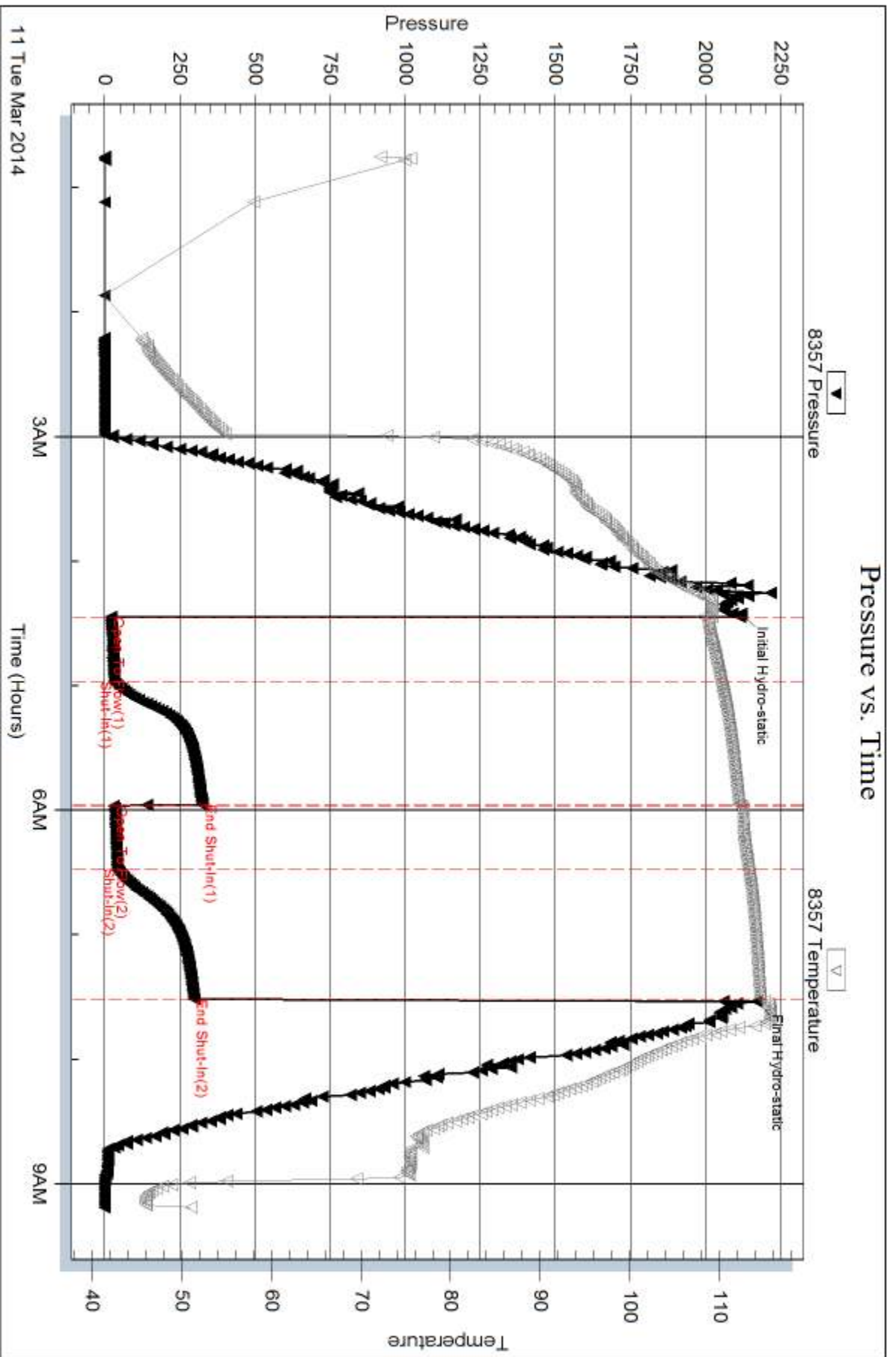
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

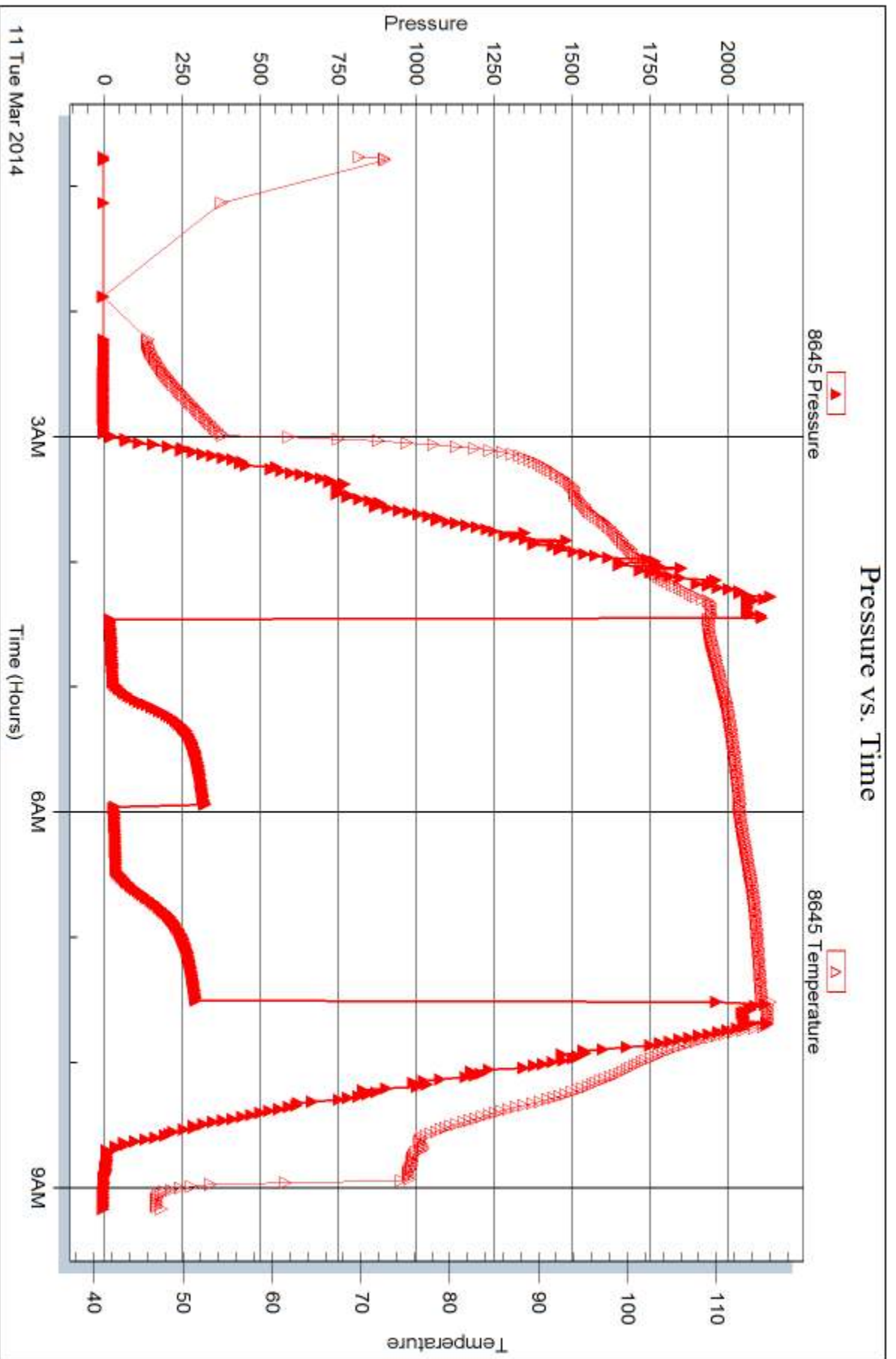


Serial #: 8645

Outside American Warrior

Scheetz #5-22

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 56650

Printed: 2014.03.19 @ 17:26:06



DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City, KS 67846

ATTN: Scott Alberg

Scheetz #5-22

22-11s-33w Logan,KS

Start Date: 2014.03.13 @ 04:34:00

End Date: 2014.03.13 @ 13:20:05

Job Ticket #: 56252 DST #: 4

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

Printed: 2014.03.19 @ 17:25:26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior
PO Box 399
Garden City, KS 67846
ATTN: Scott Alberg

22-11s-33w Logan,KS

Scheetz #5-22

Job Ticket: 56252

DST#: 4

Test Start: 2014.03.13 @ 04:34:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:50:48
 Time Test Ended: 13:20:05
 Interval: **4592.00 ft (KB) To 4670.00 ft (KB) (TVD)**
 Total Depth: 4670.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 3151.00 ft (KB)
 3143.00 ft (CF)
 KB to GR/CF: 8.00 ft

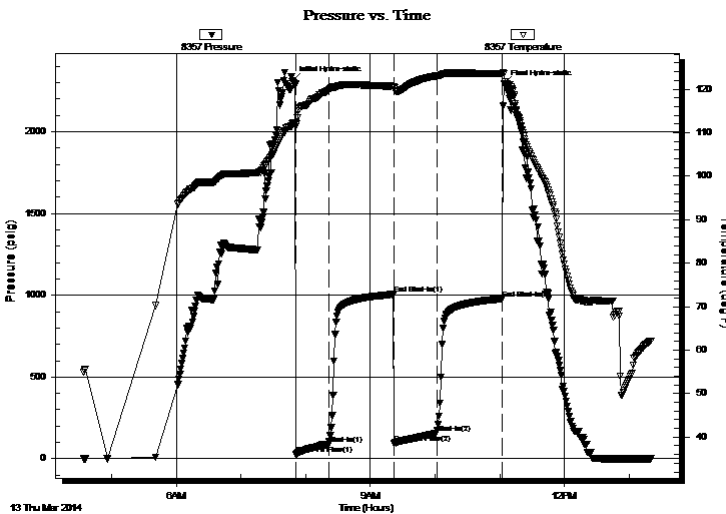
Serial #: 8357

Inside

Press@RunDepth: 155.02 psig @ 4596.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.13 End Date: 2014.03.13 Last Calib.: 2014.03.13
 Start Time: 04:34:05 End Time: 13:20:06 Time On Btm: 2014.03.13 @ 07:48:00
 Time Off Btm: 2014.03.13 @ 11:03:54

TEST COMMENT: B.O.B. @ 11 1/2 min.
 1" Return.
 B.O.B. @ 7 1/2 min.
 B.O.B. @ 25 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2311.97	112.23	Initial Hydro-static
3	25.02	111.44	Open To Flow (1)
34	88.61	119.73	Shut-In(1)
94	1004.84	120.64	End Shut-In(1)
95	94.55	120.27	Open To Flow (2)
134	155.02	123.04	Shut-In(2)
195	978.21	123.54	End Shut-In(2)
196	2290.52	123.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 20g 25o 55m	1.76
126.00	GMCO 30g 12m 58o	1.79
82.00	GMCO 7g 13m 80o	1.16
0.00	536' Weak 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

22-11s-33w Logan,KS

PO Box 399
Garden City, KS 67846

Scheetz #5-22

Job Ticket: 56252

DST#: 4

ATTN: Scott Alberg

Test Start: 2014.03.13 @ 04:34:00

Tool Information

Drill Pipe:	Length: 4583.00 ft	Diameter: 3.82 inches	Volume: 64.97 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 64.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.50 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4592.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	105.50 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			4565.50	
Shut In Tool	5.00			4570.50	
Hydraulic tool	5.00			4575.50	
Jars	5.00			4580.50	
Safety Joint	2.50			4583.00	
Packer	5.00			4588.00	27.50 Bottom Of Top Packer
Packer	4.00			4592.00	
Stubb	1.00			4593.00	
Perforations	3.00			4596.00	
Recorder	0.00	8357	Inside	4596.00	
Recorder	0.00	8645	Outside	4596.00	
Perforations	6.00			4602.00	
Change Over Sub	1.00			4603.00	
Drill Pipe	63.00			4666.00	
Change Over Sub	1.00			4667.00	
Bullnose	3.00			4670.00	78.00 Bottom Packers & Anchor
Total Tool Length:	105.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

22-11s-33w Logan,KS

PO Box 399
Garden City, KS 67846

Scheetz #5-22

Job Ticket: 56252

DST#: 4

ATTN: Scott Alberg

Test Start: 2014.03.13 @ 04:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	GOCM 20g 25o 55m	1.758
126.00	GMCO 30g 12m 58o	1.786
82.00	GMCO 7g 13m 80o	1.162
0.00	536' Weak GIP	0.000

Total Length: 332.00 ft Total Volume: 4.706 bbl

Num Fluid Samples: 0

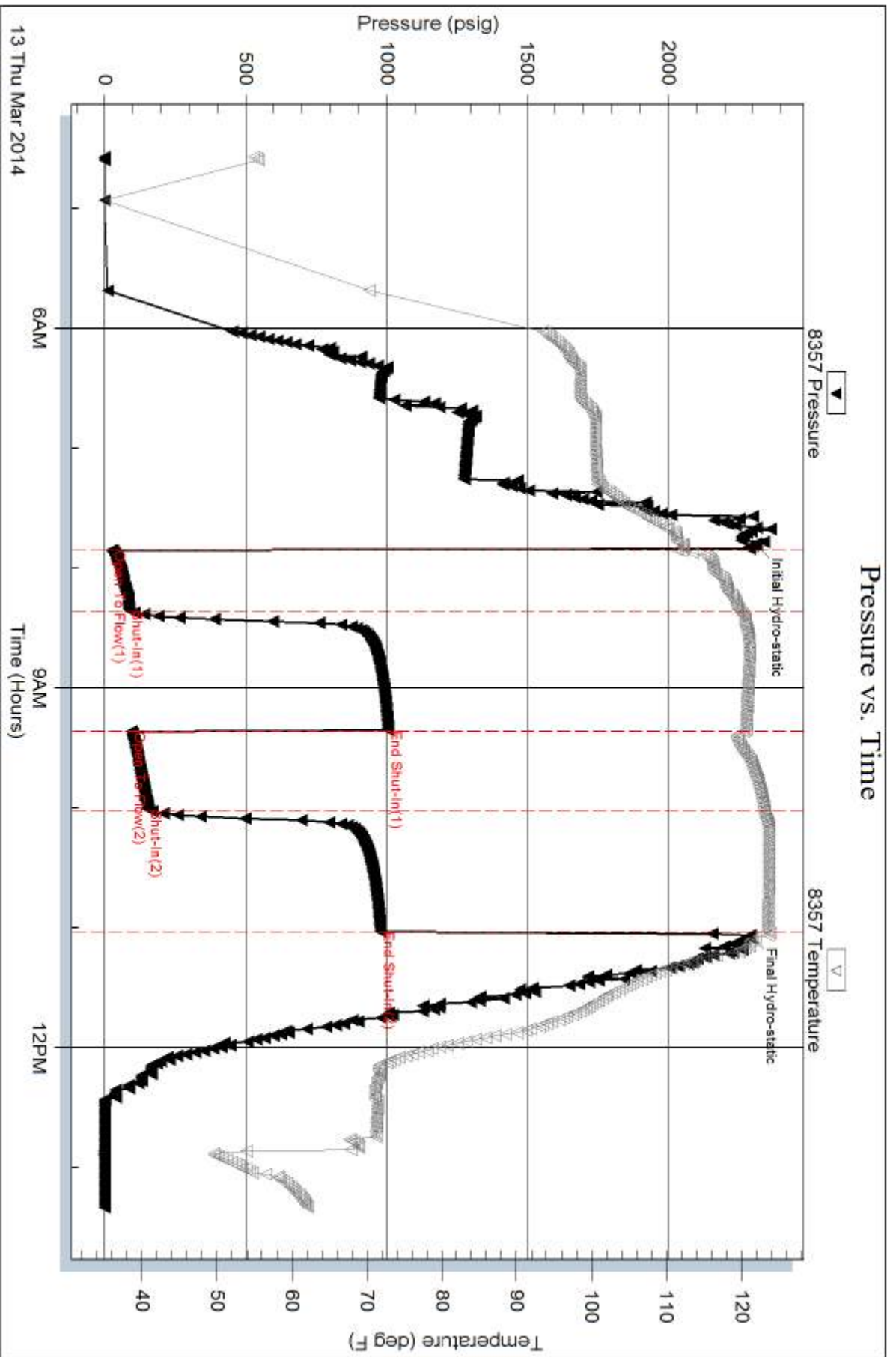
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 31 @ 60 Degrees F = 31.

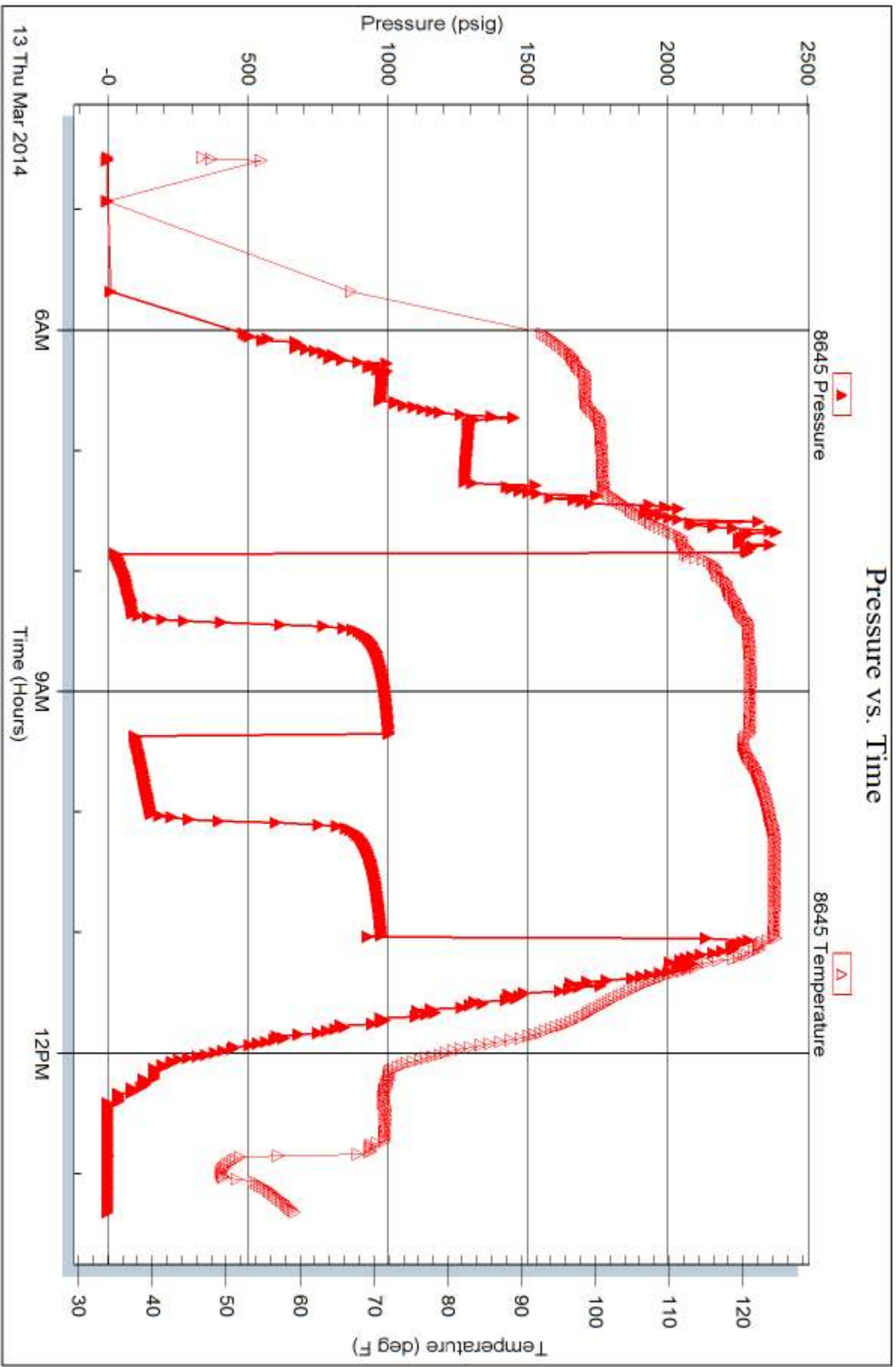


Serial #: 8645

Outside American Warrior

Scheetz #5-22

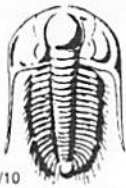
DST Test Number: 4



Tribble Testing, Inc

Ref. No: 56252

Printed: 2014.03.19 @ 17:25:28



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56648**

4/10

Well Name & No. Scheetz #5-22 Test No. 1 Date 3-9-14
 Company American Warrior, Inc. Elevation 3151 KB 3143 GL
 Address POB 399 Garden City, KS 67846
 Co. Rep / Geo. Scott Alberg Rig Duke #8
 Location: Sec. 22 Twp. 11s Rge. 33w Co. Logan State KS

Interval Tested #4082-4096-4140 Zone Tested A-B Lansing
 Anchor Length 44 Drill Pipe Run 4075 Mud Wt. 9.1
 Top Packer Depth 4092 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 4096 Wt. Pipe Run 0 WL 9.6
 Total Depth 4140 Chlorides 5000 ppm System LCM 1"
 Blow Description B.O.B. @ 2 1/2 min Tool slid 3-4'
No return.
B.O.B. @ 3 min.
No return.

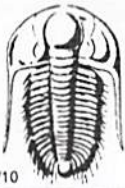
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>344</u>	Feet of <u>MW</u>	%gas	%oil <u>55</u>	%water <u>45</u>	%mud
Rec <u>314</u>	Feet of <u>MW</u>	%gas	%oil <u>85</u>	%water <u>15</u>	%mud
Rec <u>1003</u>	Feet of <u>MW</u>	%gas	%oil <u>95</u>	%water <u>5</u>	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 1661 BHT 118 Gravity — API RW 155 @ 62 ° F Chlorides 52000 ppm

(A) Initial Hydrostatic <u>2020</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>5:30</u>
(B) First Initial Flow <u>77</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:05</u>
(C) First Final Flow <u>592</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:58</u>
(D) Initial Shut-In <u>1235</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>11:48</u>
(E) Second Initial Flow <u>591</u>	<input checked="" type="checkbox"/> Hourly Standby <u>NIA</u>	T-Out <u>14:09</u>
(F) Second Final Flow <u>780</u>	<input checked="" type="checkbox"/> Mileage <u>110RT</u> <u>170.50</u>	Comments _____
(G) Final Shut-In <u>1235</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1995</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1745.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1745.50</u>	

Approved By [Signature] Our Representative Chuck Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56649

4/10

Well Name & No. Scheetz #5-22 Test No. 2 Date 3-10-14
 Company American Warrior Inc. Elevation 3151 KB 3143 GL
 Address POB 399 Garden City, KS 67846
 Co. Rep / Geo. Scott Alberg Rig Duke #8
 Location: Sec. 22 Twp. 11s Rge. 33w Co. Logan State KS

Interval Tested 4227-4262 Zone Tested H Lansing
 Anchor Length 35 Drill Pipe Run 4228 Mud Wt. 9.2
 Top Packer Depth 4223 Drill Collars Run 0 Vis 61
 Bottom Packer Depth 4227 Wt. Pipe Run 0 WL 9.6
 Total Depth 4262 Chlorides 5200 ppm System LCM 1#

Blow Description Weak surface blow
No return.
No blow.
No return.

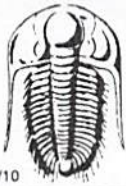
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>M oilspots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2101</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>7:55</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>8:04</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:40</u>
(D) Initial Shut-In <u>48</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>12:41</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14:21</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>170.50</u>	Comments
(G) Final Shut-In <u>39</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2090</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1745.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1745.50</u>	

Approved By Scott Alberg Our Representative Chuck Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56650

Well Name & No. Scheetz #5-22 Test No. 3 Date 3-11-14
 Company American Warrior, Inc. Elevation 3151 KB 3143 GL
 Address POB 399 Garden City, KS 67846
 Co. Rep / Geo. Scott Alberg Rig Duke #8
 Location: Sec. 22 Twp. 11s Rge. 33W Co. Logan State KS

Interval Tested 4260-4314 Zone Tested 'I, J' Lansing
 Anchor Length 54 Drill Pipe Run 4263 Mud Wt. 9.2
 Top Packer Depth 4256 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 4260 Wt. Pipe Run 0 WL 8.0
 Total Depth 4314 Chlorides 5000 ppm System LCM 1
 Blow Description 4" Blow
No return.
6" Blow.
No return.

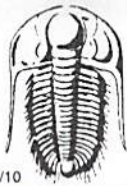
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>50</u>	Feet of <u>600m</u>	<u>5</u> %gas	<u>5</u> %oil	%water	<u>90</u> %mud
Rec	Feet of <u>70' weak GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50 BHT 115 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2120</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>00:40</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:45</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>4:27</u>
(D) Initial Shut-In <u>327</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>07:31</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>9:11</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>170.50</u>	Comments
(G) Final Shut-In <u>297</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2169</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1745.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1745.50</u>	

Approved By [Signature] Our Representative Chuck Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56252**

4/10

Well Name & No. Scheetz #5-22 Test No. 4 Date 3-13-14
 Company American Warrior, Inc. Elevation 3151 KB 3143 GL
 Address POB 399 Garden City, KS 67846
 Co. Rep / Geo. Scott Alberg Rig Duke #8
 Location: Sec. 22 Twp. 11s Rge. 33w Co. Logan State KS

Interval Tested ~~4292~~ 4592-4670 Zone Tested Johnson
 Anchor Length 78 Drill Pipe Run 4583 Mud Wt. 9.3
 Top Packer Depth 4588 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 4592 Wt. Pipe Run 0 WL 9.6
 Total Depth 4670 Chlorides 4000 ppm System LCM Trace

Blow Description B.O.B. @ 11 1/2 min.
1" Return.

B.O.B. @ 7 1/2 min.

B.O.B. @ 25 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>82</u>	<u>Feet of GMCO</u>	<u>7</u>	<u>80</u>	<u>13</u>	<u>13</u>
<u>126</u>	<u>Feet of GMCO</u>	<u>30</u>	<u>58</u>	<u>12</u>	<u>12</u>
<u>124</u>	<u>Feet of GOCM</u>	<u>20</u>	<u>25</u>	<u>55</u>	<u>55</u>
<u> </u>	<u>Feet of 536' Weak GIP</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u>Feet of</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total 332 BHT 124 Gravity 31 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2312 Test 1250 T-On Location 4:25
 (B) First Initial Flow 25 Jars 250 T-Started 4:34
 (C) First Final Flow 89 Safety Joint 75 T-Open 7:51
 (D) Initial Shut-In 1005 Circ Sub NIC T-Pulled 11:02
 (E) Second Initial Flow 95 Hourly Standby T-Out 13:20
 (F) Second Final Flow 155 Mileage 170.50 Comments
 (G) Final Shut-In 978 Sampler
 (H) Final Hydrostatic 2291 Straddle Ruined Shale Packer

Initial Open 30 Shale Packer Ruined Packer
 Initial Shut-In 60 Extra Packer Extra Copies
 Final Flow 40 Extra Recorder Sub Total 0
 Final Shut-In 60 Day Standby Total 1745.50
 Accessibility MP/DST Disc't
 Sub Total 1745.50

Approved By [Signature] Our Representative Chuck Smith

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