



DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Jason T Alm

GS #2-33

33-18s-21w Ness,KS

Start Date: 2014.12.12 @ 01:03:23

End Date: 2014.12.12 @ 09:06:53

Job Ticket #: 58420 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.15 @ 10:26:34



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior, Inc.

33-18s-21w Ness, KS

PO Box 399
Garden City, KS 67846

GS #2-33

Job Ticket: 58420

DST#: 1

ATTN: Jason T Alm

Test Start: 2014.12.12 @ 01:03:23

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:57:23

Time Test Ended: 09:06:53

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 4065.00 ft (KB) To 4125.00 ft (KB) (TVD)

Reference Elevations: 2120.00 ft (KB)

Total Depth: 4125.00 ft (KB) (TVD)

2112.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8655 Outside

Press@RunDepth: 45.64 psig @ 4066.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.12

End Date:

2014.12.12

Last Calib.:

2014.12.12

Start Time: 01:03:24

End Time:

09:06:53

Time On Btm:

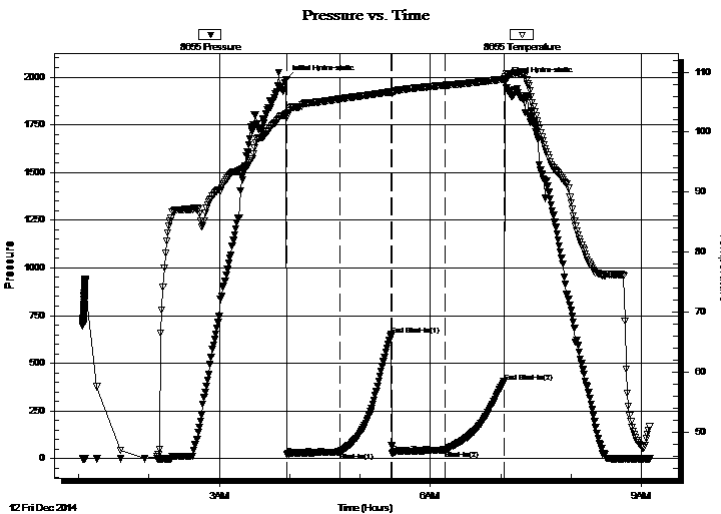
2014.12.12 @ 03:56:53

Time Off Btm:

2014.12.12 @ 07:03:53

TEST COMMENT: 45- IF- Surface blow built slowly to 5 1/2"
45- IS- No blow
45- FF- Initial surge of 3.5" built slowly to 6"
45- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1987.78	103.14	Initial Hydro-static
1	19.67	102.46	Open To Flow (1)
46	34.57	105.52	Shut-In(1)
90	649.59	106.70	End Shut-In(1)
91	26.87	106.62	Open To Flow (2)
136	45.64	107.80	Shut-In(2)
186	402.23	108.81	End Shut-In(2)
187	1976.04	109.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	SOCM, 10%O 90%M	0.75
1.00	CO	0.01
0.00	239' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.
PO Box 399
Garden City, KS 67846
ATTN: Jason T Alm

33-18s-21w Ness, KS

GS #2-33

Job Ticket: 58420

DST#: 1

Test Start: 2014.12.12 @ 01:03:23

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:57:23

Time Test Ended: 09:06:53

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

Interval: **4065.00 ft (KB) To 4125.00 ft (KB) (TVD)**

Total Depth: 4125.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2120.00 ft (KB)

2112.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8651 Inside

Press@RunDepth: psig @ 4066.00 ft (KB)

Start Date: 2014.12.12

End Date:

2014.12.12

Start Time: 01:03:32

End Time:

09:08:31

Capacity: 8000.00 psig

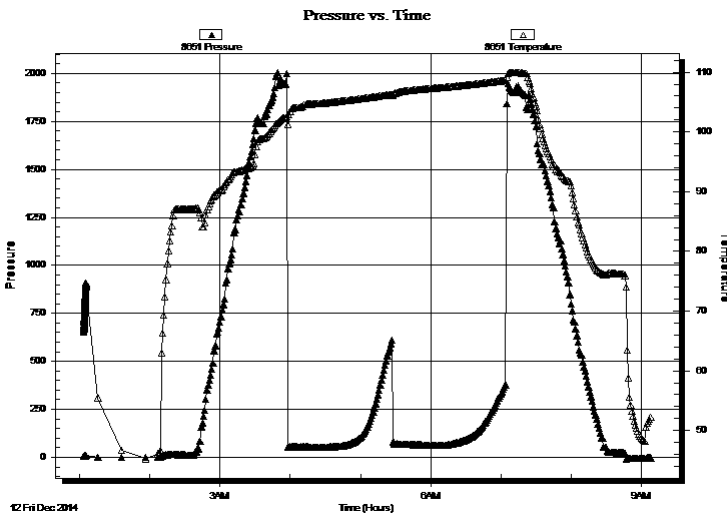
Last Calib.: 2014.12.12

Time On Btm:

Time Off Btm:

TEST COMMENT: 45- IF- Surface blow built slowly to 5 1/2"
45- IS- No blow
45- FF- Initial surge of 3.5" built slowly to 6"
45- FS- No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	SOCM, 10%O 90%M	0.75
1.00	CO	0.01
0.00	239' 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.

33-18s-21w Ness, KS

PO Box 399
Garden City, KS 67846

GS #2-33

Job Ticket: 58420

DST#: 1

ATTN: Jason T Alm

Test Start: 2014.12.12 @ 01:03:23

Tool Information

Drill Pipe:	Length: 4026.00 ft	Diameter: 3.75 inches	Volume: 55.00 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4065.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 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			4039.00	
Shut In Tool	5.00			4044.00	
Hydraulic tool	5.00			4049.00	
Jars	5.00			4054.00	
Safety Joint	2.00			4056.00	
Packer	5.00			4061.00	27.00 Bottom Of Top Packer
Packer	4.00			4065.00	
Stubb	1.00			4066.00	
Recorder	0.00	8651	Inside	4066.00	
Recorder	0.00	8655	Outside	4066.00	
Perforations	22.00			4088.00	
Change Over Sub	1.00			4089.00	
Drill Pipe	32.00			4121.00	
Change Over Sub	1.00			4122.00	
Bullnose	3.00			4125.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

33-18s-21w Ness,KS

PO Box 399
Garden City, KS 67846

GS #2-33

Job Ticket: 58420

DST#: 1

ATTN: Jason T Alm

Test Start: 2014.12.12 @ 01:03:23

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
75.00	SOCM, 10%O 90%M	0.754
1.00	CO	0.014
0.00	239' GIP	0.000

Total Length: 76.00 ft Total Volume: 0.768 bbl

Num Fluid Samples: 0

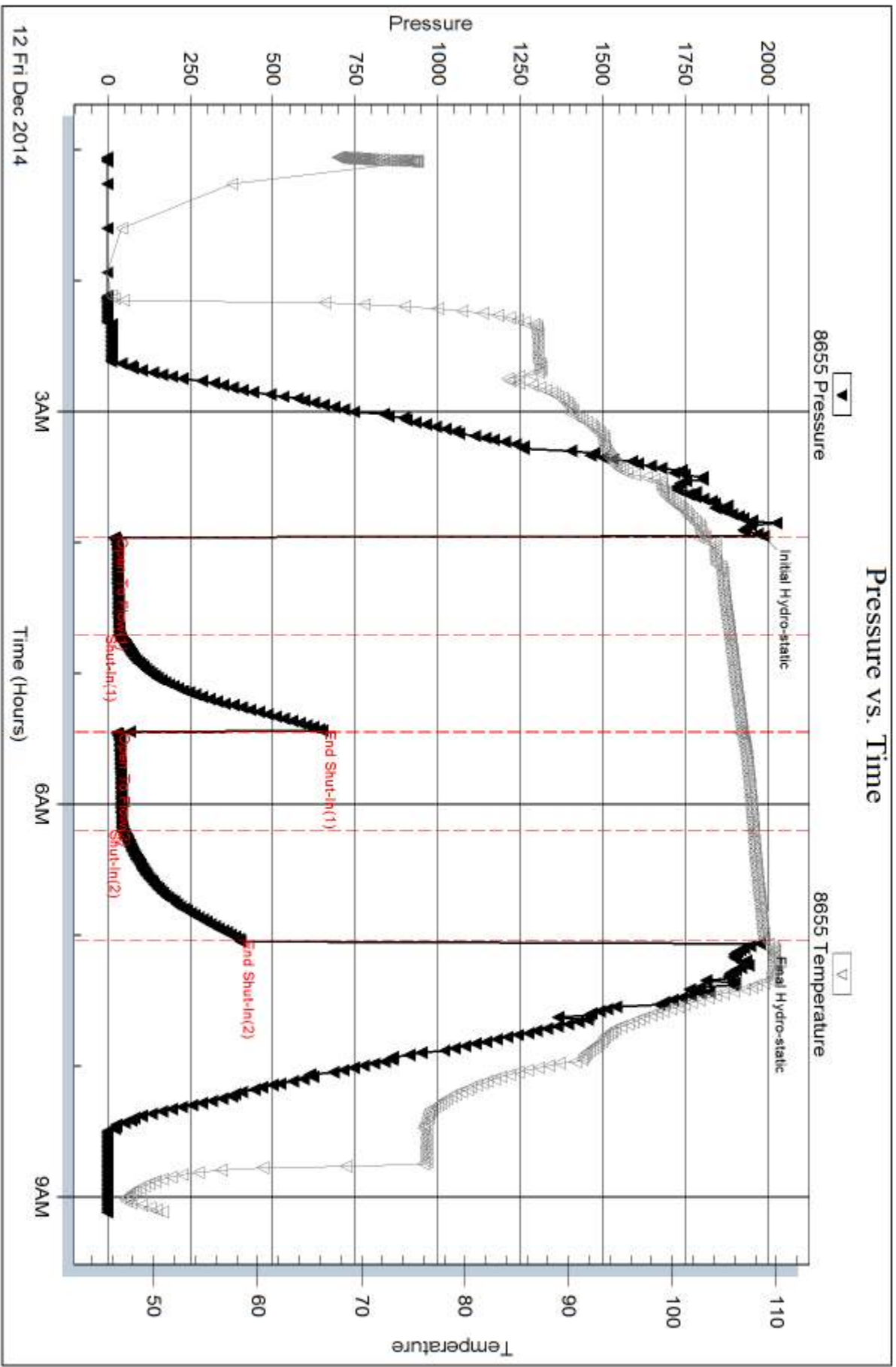
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



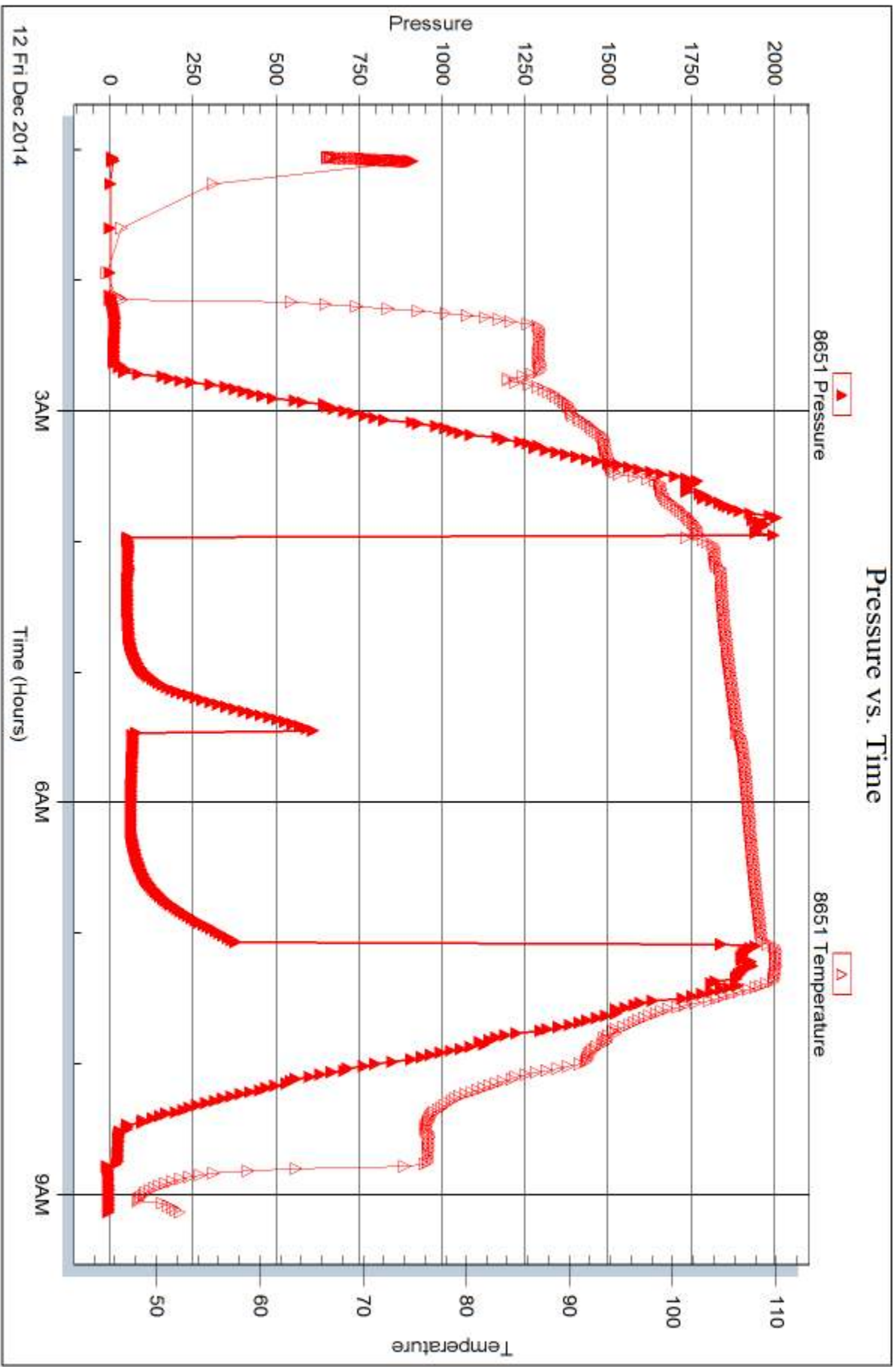
Serial #: 8651

Inside

American Warrior, Inc.

GS #2-33

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 58420

Printed: 2014.12.15 @ 10:26:35



DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Jason T Alm

GS #2-33

33-18s-21w Ness,KS

Start Date: 2014.12.12 @ 17:04:27

End Date: 2014.12.13 @ 00:47:27

Job Ticket #: 58421 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.15 @ 10:25:54



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior, Inc.

33-18s-21w Ness, KS

PO Box 399
Garden City, KS 67846

GS #2-33

Job Ticket: 58421

DST#: 2

ATTN: Jason T Alm

Test Start: 2014.12.12 @ 17:04:27

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:23:27

Time Test Ended: 00:47:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 4196.00 ft (KB) To 4205.00 ft (KB) (TVD)

Reference Elevations: 2120.00 ft (KB)

Total Depth: 4205.00 ft (KB) (TVD)

2112.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8655 Outside

Press@RunDepth: 100.67 psig @ 4197.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.12

End Date: 2014.12.13

Last Calib.: 2014.12.13

Start Time: 17:04:28

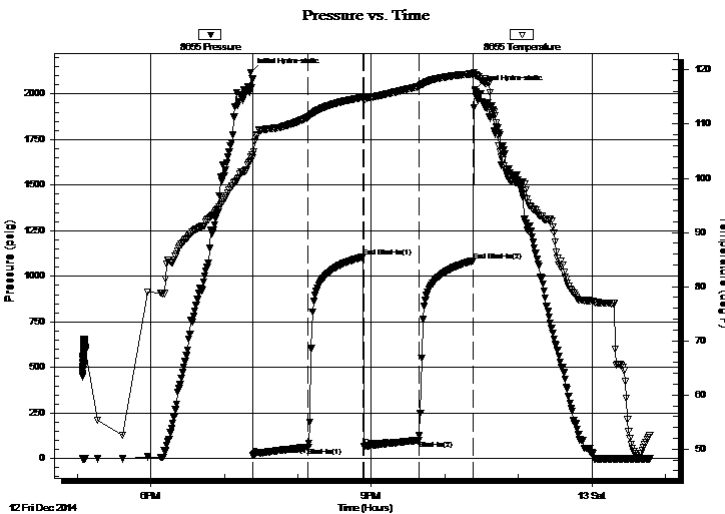
End Time: 00:47:27

Time On Btm: 2014.12.12 @ 19:21:27

Time Off Btm: 2014.12.12 @ 22:24:27

TEST COMMENT: 45- IF- Slowly built to 10"
45- IS- No blow
45- FF- Slowly built to 8"
45- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2118.12	103.19	Initial Hydro-static
2	19.02	103.83	Open To Flow (1)
47	63.75	111.29	Shut-In(1)
92	1105.01	114.92	End Shut-In(1)
93	66.70	114.66	Open To Flow (2)
137	100.67	116.93	Shut-In(2)
182	1085.14	119.28	End Shut-In(2)
183	2023.42	119.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	SOCMW, 5%O 10%M 85%W	1.91
45.00	CO	0.61

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc.

PO Box 399
Garden City, KS 67846

ATTN: Jason T Alm

33-18s-21w Ness, KS

GS #2-33

Job Ticket: 58421

DST#: 2

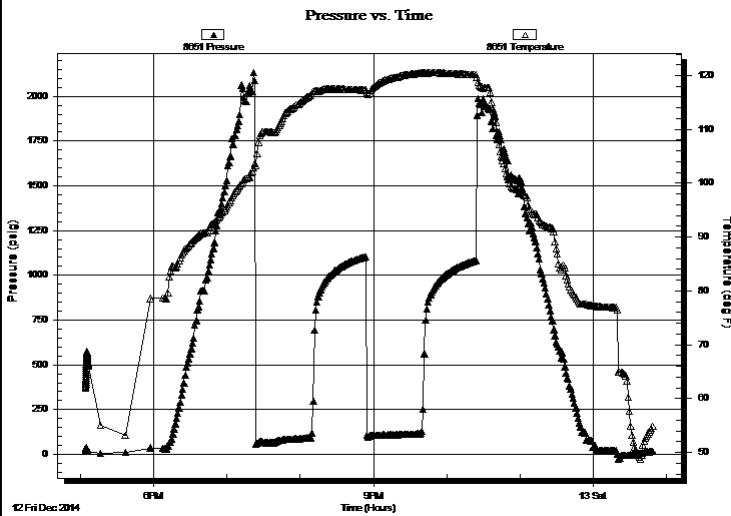
Test Start: 2014.12.12 @ 17:04:27

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 19:23:27
 Tester: Brannan Lonsdale
 Time Test Ended: 00:47:27
 Unit No: 62
Interval: 4196.00 ft (KB) To 4205.00 ft (KB) (TVD)
 Reference Elevations: 2120.00 ft (KB)
 Total Depth: 4205.00 ft (KB) (TVD) 2112.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8651 Inside
 Press@RunDepth: psig @ 4197.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.12.12 End Date: 2014.12.13 Last Calib.: 2014.12.13
 Start Time: 17:04:13 End Time: 00:48:42 Time On Btm:
 Time Off Btm:

TEST COMMENT: 45- IF- Slow ly built to 10"
 45- IS- No blow
 45- FF- Slow ly built to 8"
 45- FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
160.00	SOCMW, 5%O 10%M 85%W	1.91
45.00	CO	0.61

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, Inc.

33-18s-21w Ness, KS

PO Box 399
Garden City, KS 67846

GS #2-33

Job Ticket: 58421

DST#: 2

ATTN: Jason T Alm

Test Start: 2014.12.12 @ 17:04:27

Tool Information

Drill Pipe:	Length: 4153.00 ft	Diameter: 3.75 inches	Volume: 56.73 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4196.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 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			4170.00	
Shut In Tool	5.00			4175.00	
Hydraulic tool	5.00			4180.00	
Jars	5.00			4185.00	
Safety Joint	2.00			4187.00	
Packer	5.00			4192.00	27.00 Bottom Of Top Packer
Packer	4.00			4196.00	
Stubb	1.00			4197.00	
Recorder	0.00	8651	Inside	4197.00	
Recorder	0.00	8655	Outside	4197.00	
Perforations	5.00			4202.00	
Bullnose	3.00			4205.00	9.00 Bottom Packers & Anchor

Total Tool Length: 36.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

33-18s-21w Ness,KS

PO Box 399
Garden City, KS 67846

GS #2-33

Job Ticket: 58421

DST#: 2

ATTN: Jason T Alm

Test Start: 2014.12.12 @ 17:04:27

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:

20000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
160.00	SOCMW, 5%O 10%M 85%W	1.915
45.00	CO	0.615

Total Length: 205.00 ft

Total Volume: 2.530 bbl

Num Fluid Samples: 0

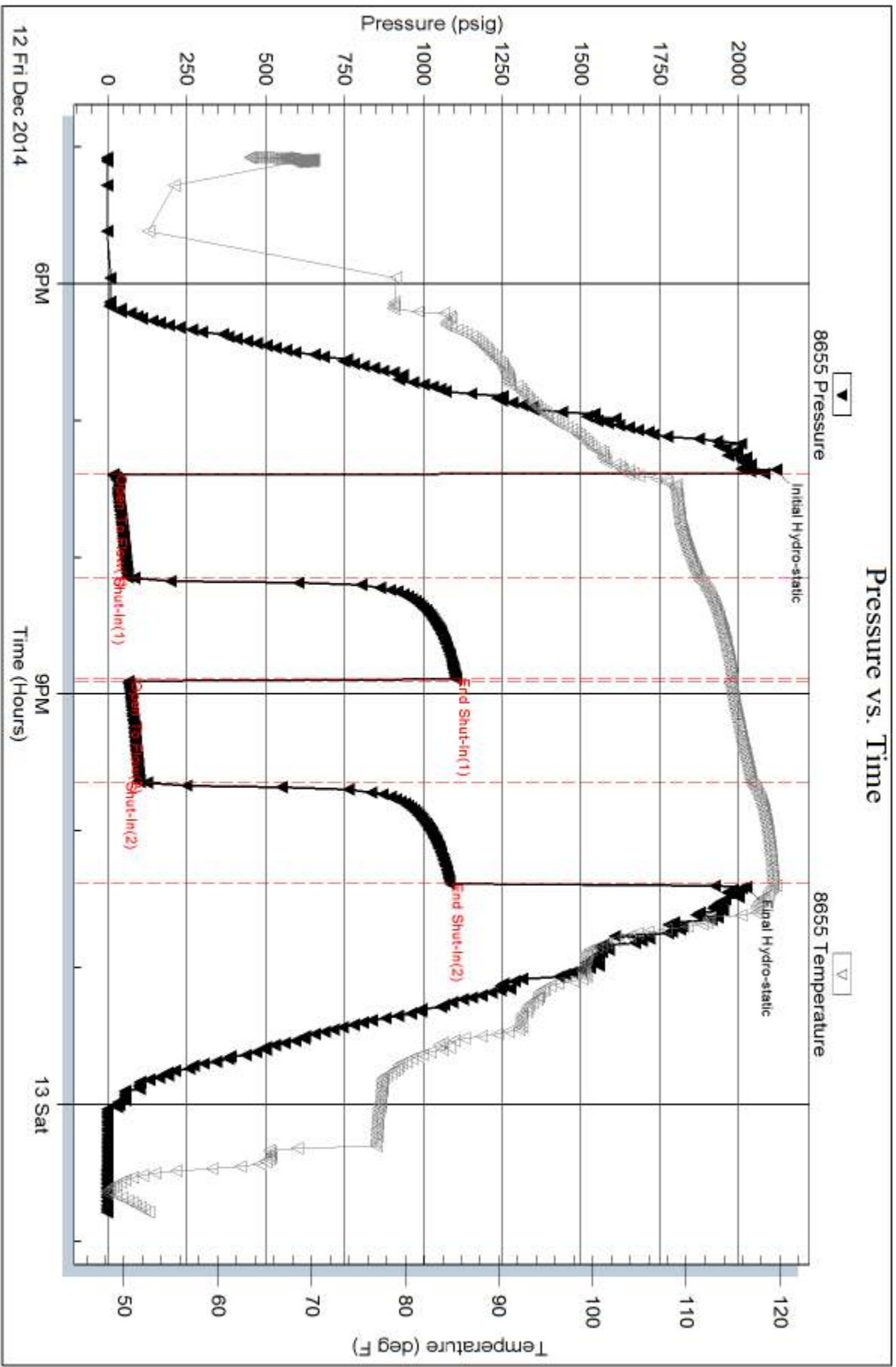
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



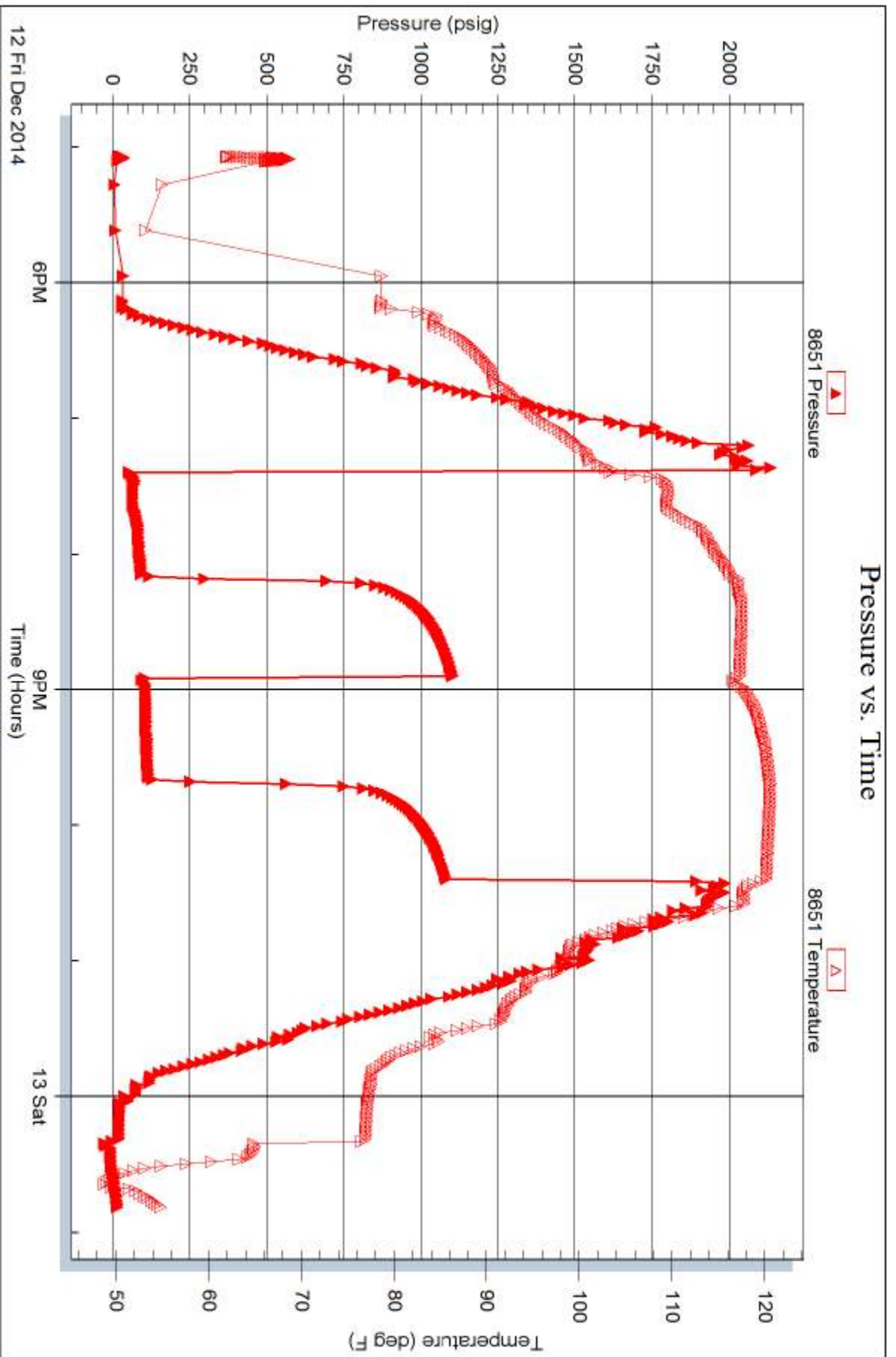
Serial #: 8651

Inside

American Warrior, Inc.

GS #2-33

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58420

4/10

Well Name & No. GS #2-33 Test No. 1 Date 12/12/14
 Company American Warrior, Inc. Elevation 2120 KB 2112 GL
 Address 3118 Cummings Rd. PO Box 399 Garden City, KS 67846
 Co. Rep / Geo. Jason T Alm Rig Discovery #3
 Location: Sec. 33 Twp. 18 S Rge. 21 W Co. Ness State KS

Interval Tested 4065-4125 Zone Tested Fort Scott
 Anchor Length 60' Drill Pipe Run 4026 Mud Wt. 8.9
 Top Packer Depth 4060 Drill Collars Run 31 Vis 47
 Bottom Packer Depth 4065 Wt. Pipe Run --- WL 8.8
 Total Depth 4125 Chlorides 6000 ppm System LCM 1#

Blow Description IF - Inflow slow built to 5 1/2"
ISI - No flow
FF - Initial surge of 3 1/2" built slowly to 6"
FSI - No flow

Rec	Feet of	%gas	%oil	%water	%mud
<u>75'</u>	<u>SOCM</u>		<u>10</u>		<u>90</u>
<u>1'</u>	<u>CO</u>				

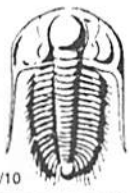
Rec Total 76' BHT 109° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1988 Test 1250 T-On Location 0048
 (B) First Initial Flow 20 Jars 250 T-Started 0103
 (C) First Final Flow 35 Safety Joint 75 T-Open 0357
 (D) Initial Shut-In 650 Circ Sub _____ T-Pulled 0657
 (E) Second Initial Flow 27 Hourly Standby _____ T-Out 0908
 (F) Second Final Flow 46 Mileage 106 RT 164.30 Comments _____
 (G) Final Shut-In 402 Sampler _____
 (H) Final Hydrostatic 1976 Straddle _____ Ruined Shale Packer _____

Initial Open 45 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1739.30
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1739.30

Approved By _____ Our Representative Brannan Lonsdale

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. 58421

Well Name & No. GS #2-33 Test No. 2 Date 12/12/14
 Company American Warring Inc. Elevation 2120 KB 212 GL
 Address 3118 Cummings Rd. PO Box 399 Garden City, KS 67846
 Co. Rep / Geo. Jason T Alm Rig Discovery #3
 Location: Sec. 33 Twp. 18 S Rge. 21 W Co. Ness State KS

Interval Tested 4196-4205 Zone Tested MU55
 Anchor Length 9' Drill Pipe Run 4153 Mud Wt. 9.0
 Top Packer Depth 4191 Drill Collars Run 31 Vis 52
 Bottom Packer Depth 4196 Wt. Pipe Run WL 8.0
 Total Depth 4205 Chlorides 6,100 ppm System LCM 1"

Blow Description IF - slowly built to 10"
ISF - No blow
FF - slowly built to 8"
PSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>160</u>	<u>Feet of SOCMW</u>		<u>5</u>	<u>85</u>	<u>10</u>
<u>45</u>	<u>Feet of CO</u>				
	Feet of	%gas	%oil	%water	%mud
	Feet of	%gas	%oil	%water	%mud

Rec Total 205' BHT 119° Gravity 31 API RW .48 @ 49 °F Chlorides 29,000 ppm

(A) Initial Hydrostatic 2118 Test 1250 T-On Location 1650
 (B) First Initial Flow 19 Jars 250 T-Started 1704
 (C) First Final Flow 64 Safety Joint 75 T-Open 1923
 (D) Initial Shut-In 1105 Circ Sub _____ T-Pulled 2223
 (E) Second Initial Flow 67 Hourly Standby _____ T-Out 0048 ^{12/13}
 (F) Second Final Flow 101 Mileage 106 RT 164.30
 (G) Final Shut-In 1085 Sampler _____
 (H) Final Hydrostatic 2023 Straddle _____ Ruined Shale Packer _____

Initial Open 45 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 17.39.30
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1739.30

Approved By _____ Our Representative Bryman Lonsdale

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.