



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

3118 Cummings Rd
Garden City, KS 67846

ATTN: Jason Alm

Bamberger #1-7

7-23s-23w Hodgeman,KS

Start Date: 2017.01.14 @ 06:05:00

End Date: 2017.01.14 @ 11:37:30

Job Ticket #: 63695 DST #: 1

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

Printed: 2017.01.17 @ 14:15:42

American Warrior Inc.

7-23s-23w Hodgeman,KS

Bamberger #1-7

DST # 1

Cherokee Sand

2017.01.14



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc.

7-23s-23w Hodgeman, KS

3118 Cummings Rd
Garden City, KS 67846

Bamberger #1-7

Job Ticket: 63695

DST#: 1

ATTN: Jason Alm

Test Start: 2017.01.14 @ 06:05:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:12:30

Time Test Ended: 11:37:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 4540.00 ft (KB) To 4635.00 ft (KB) (TVD)

Total Depth: 4635.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 2317.00 ft (KB)

2309.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6999 Inside

Press@RunDepth: 1140.62 psig @ 4631.33 ft (KB)

Start Date: 2017.01.14

End Date:

2017.01.14

Start Time: 06:05:05

End Time:

11:37:29

Capacity: 8000.00 psig

Last Calib.: 2017.01.14

Time On Btm: 2017.01.14 @ 08:10:00

Time Off Btm: 2017.01.14 @ 08:54:30

TEST COMMENT: I.F. 5 Minutes/Blow built to bottom of bucket in 30 seconds
I.S.I. 30 Minutes/No blow back
F.F. 5 Minutes/Blow built to bottom of bucket in 30 seconds
Pull test

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.39	107.31	Initial Hydro-static
3	1173.75	107.68	Open To Flow (1)
8	1140.62	126.35	Shut-In(1)
38	1417.91	123.39	End Shut-In(1)
38	1235.21	123.40	Open To Flow (2)
44	1277.73	129.24	Shut-In(2)
45	2165.52	125.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2232.00	MW Mud 5% Water 95%	31.04

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc.

7-23s-23w Hodgeman, KS

3118 Cummings Rd
Garden City, KS 67846

Bamberger #1-7

Job Ticket: 63695

DST#: 1

ATTN: Jason Alm

Test Start: 2017.01.14 @ 06:05:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:12:30

Time Test Ended: 11:37:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 4540.00 ft (KB) To 4635.00 ft (KB) (TVD)

Reference Elevations: 2317.00 ft (KB)

Total Depth: 4635.00 ft (KB) (TVD)

2309.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8960 Outside

Press@RunDepth: 1414.96 psig @ 4632.33 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.01.14

End Date:

2017.01.14

Last Calib.: 2017.01.14

Start Time: 06:05:05

End Time:

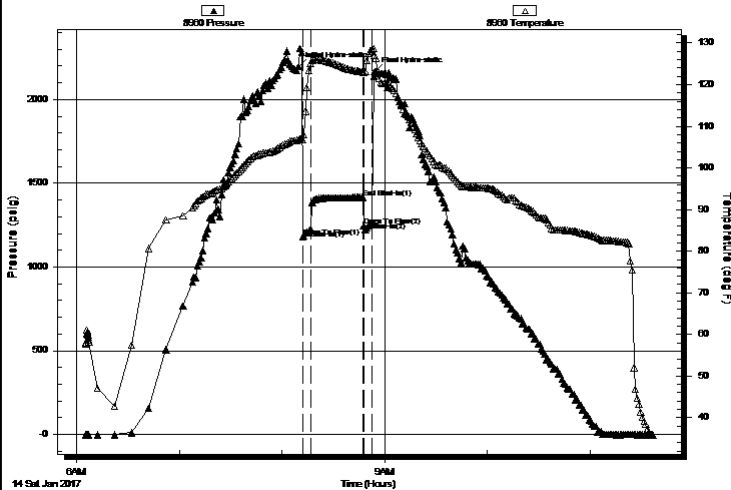
11:36:59

Time On Btm: 2017.01.14 @ 08:09:30

Time Off Btm: 2017.01.14 @ 08:54:00

TEST COMMENT: I.F. 5 Minutes/Blow built to bottom of bucket in 30 seconds
I.S.I. 30 Minutes/No blow back
F.F. 5 Minutes/Blow built to bottom of bucket in 30 seconds
Pull test

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2197.71	106.73	Initial Hydro-static
3	1179.17	106.76	Open To Flow (1)
7	1224.01	125.01	Shut-In(1)
38	1414.96	123.08	End Shut-In(1)
38	1243.42	122.93	Open To Flow (2)
43	1268.46	128.42	Shut-In(2)
45	2168.23	126.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2232.00	MW Mud 5% Water 95%	31.04

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

7-23s-23w Hodgeman, KS

3118 Cummings Rd
Garden City, KS 67846

Bamberger #1-7

Job Ticket: 63695

DST#: 1

ATTN: Jason Alm

Test Start: 2017.01.14 @ 06:05:00

Tool Information

Drill Pipe:	Length:	4500.00 ft	Diameter:	3.80 inches	Volume:	63.12 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	78000.00 lb
					Total Volume:	63.27 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft							
Depth to Top Packer:	4540.00 ft							
Depth to Bottom Packer:	ft							
Interval between Packers:	95.33 ft							
Tool Length:	123.33 ft							
Number of Packers:	2		Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------	------------	----------	------------	----------------

Shut-In Tool	5.00		4517.00	
Hydraulic tool	5.00		4522.00	
Jars	6.00		4528.00	
Safety Joint	2.00		4530.00	
Top Packer	5.00		4535.00	
Packer	5.00		4540.00	28.00 Bottom Of Top Packer
Anchor	25.00		4565.00	
Change Over Sub	1.00		4566.00	
Drill Pipe	63.33		4629.33	
Change Over Sub	1.00		4630.33	
Recorder	1.00	6999	Inside	4631.33
Recorder	1.00	8960	Outside	4632.33
Bullnose	3.00		4635.33	95.33 Anchor Tool

Total Tool Length: 123.33



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

7-23s-23w Hodgeman, KS

3118 Cummings Rd
Garden City, KS 67846

Bamberger #1-7

Job Ticket: 63695

DST#: 1

ATTN: Jason Alm

Test Start: 2017.01.14 @ 06:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 21000 ppm

ft
bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2232.00	MW Mud 5% Water 95%	31.036

Total Length: 2232.00 ft Total Volume: 31.036 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .532 ohms @ 44 deg.

Serial #: 6999

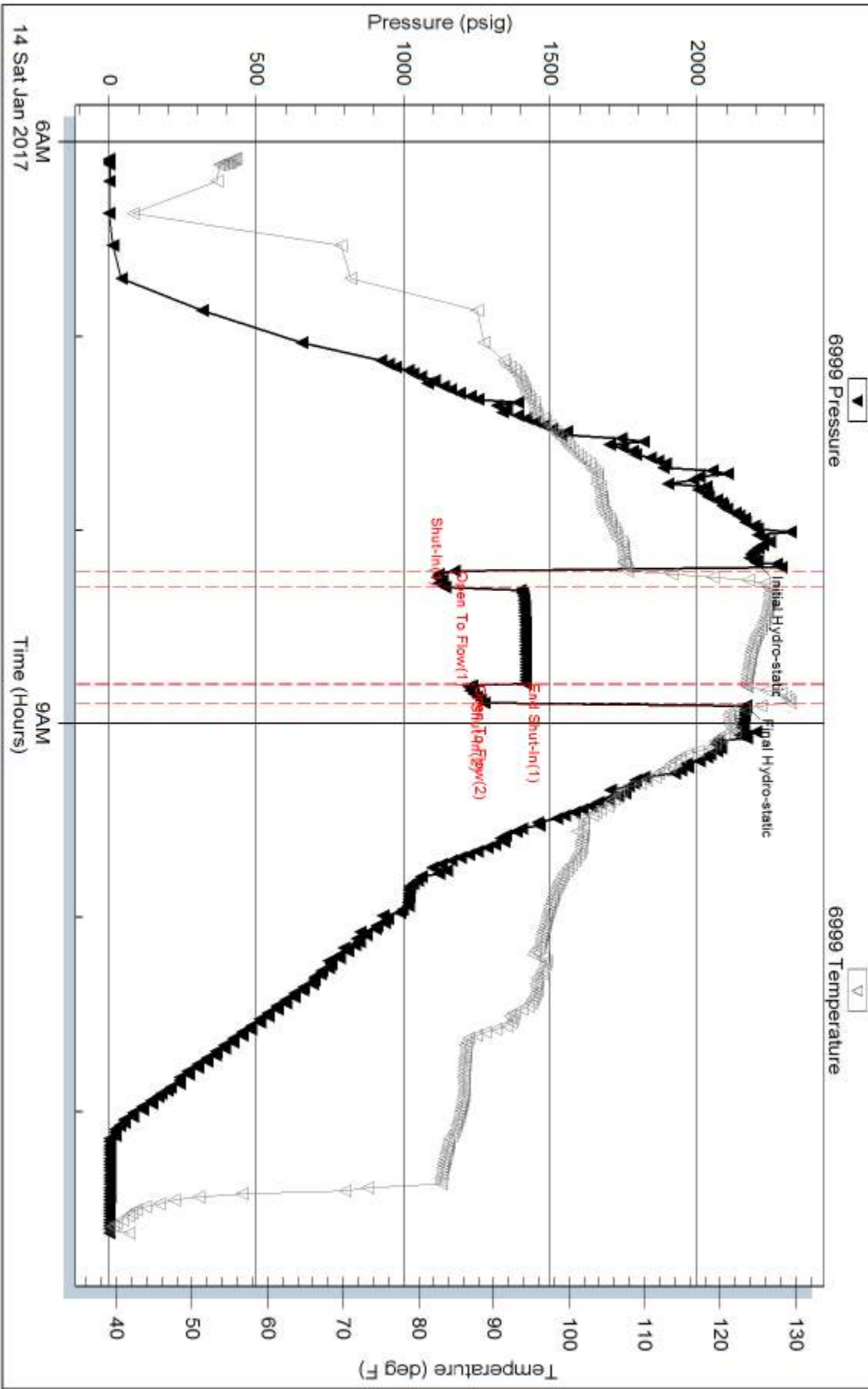
Inside

American Warrior Inc.

Bamberger #1-7

DST Test Number: 1

Pressure vs. Time



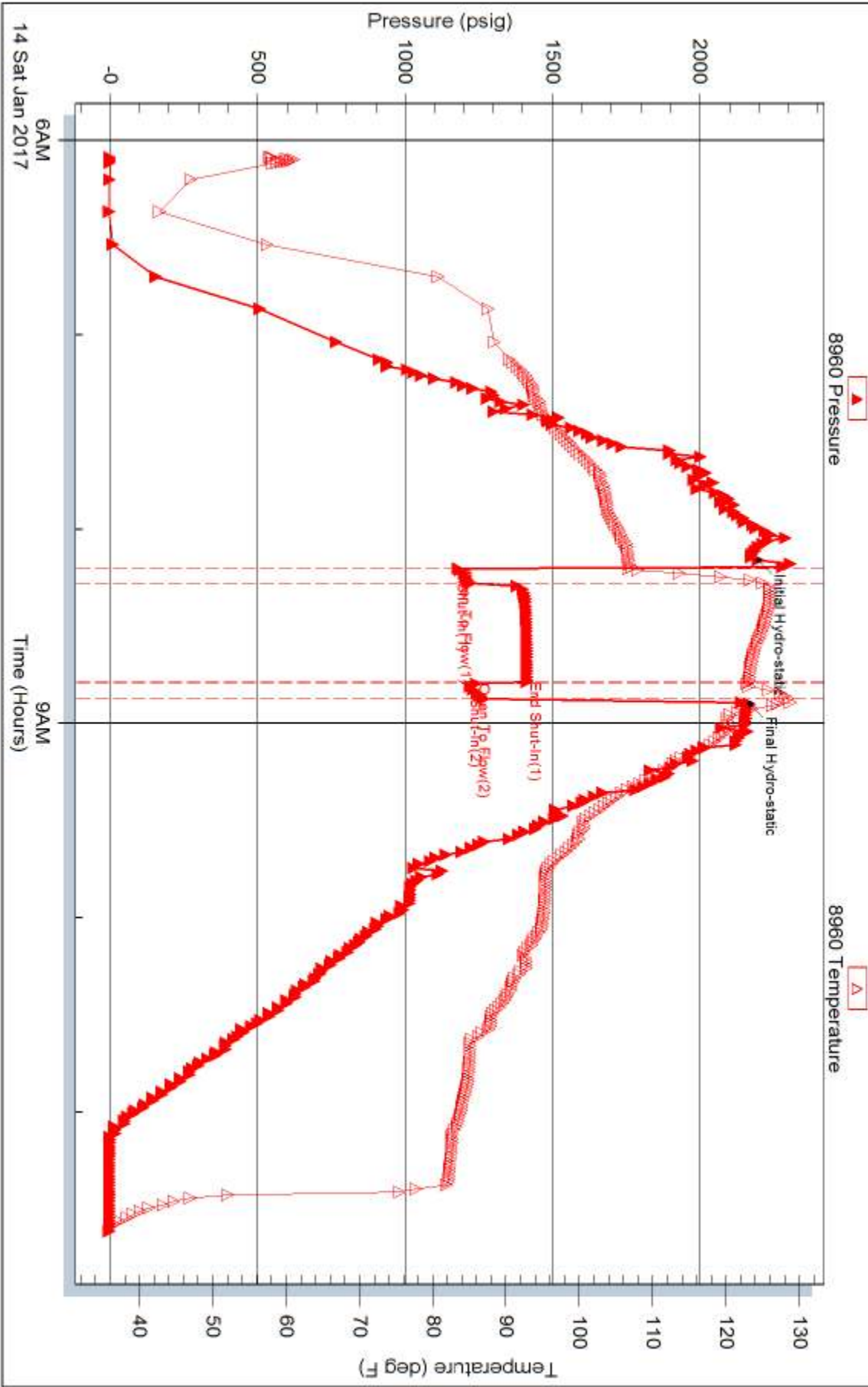
Serial #: 8960

Outside American Warrior Inc.

Bamberger #1-7

DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63695**

Well Name & No. Bamberger #1-7 Test No. 1 Date 14 Jan 17
 Company Bamberger #1-7 American Warrior Inc Elevation 2317 KB 2309 GL
 Address PO Box 399/318 Cummings Rd Garden City KS 67846
 Co. Rep / Geo. Jason Alm Rig Discovery Rig 3
 Location: Sec. 7 Twp. 23S Rge. 23W Co. Hodgeman State KS

Interval Tested 4540-4635 Zone Tested Cherokee Sand
 Anchor Length 95 Drill Pipe Run 4500 Mud Wt. 9.3
 Top Packer Depth 4535 Drill Collars Run 30 Vis 47
 Bottom Packer Depth 4540 Wt. Pipe Run — WL 7.2
 Total Depth 4635 Chlorides 5800 ppm System LCM 2#

Blow Description I.F. Blow built to bottom of bucket in 30 seconds

I.S.I No blow back

I.F. Blow built to bottom of bucket in 30 seconds

Pull test

Rec	Feet of	%gas	%oil	%water	%mud
<u>2232</u>	<u>Muddy Water</u>			<u>95</u>	<u>5</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 2232 BHT 129 Gravity 1150 API RW .532 @ 44 °F Chlorides 21000 ppm

(A) Initial Hydrostatic 2199
 (B) First Initial Flow 1173
 (C) First Final Flow 1140
 (D) Initial Shut-In 1417
 (E) Second Initial Flow 1235
 (F) Second Final Flow 1277
 (G) Final Shut-In —
 (H) Final Hydrostatic 2165

☒ Test 1150
☒ Jars 250
☒ Safety Joint 75
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 138 103.50
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1578.50

T-On Location 5:28 am
 T-Started 6:05 am
 T-Open 8:13 am
 T-Pulled 8:53 am
 T-Out 11:38 am

Comments

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1578.50

MP/DST Disc't

Initial Open 5
 Initial Shut-In 30
 Final Flow 5
 Final Shut-In —

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.