



DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

Hubin #2-10B

10-23S-23W Hodgeman,KS

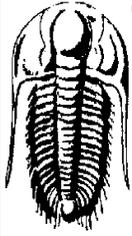
Start Date: 2018.08.10 @ 08:27:14

End Date: 2018.08.10 @ 18:32:14

Job Ticket #: 63135 DST #: 1

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

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.
PO Box 399
Garden City, KS 67846
ATTN: Kevin Timson

10-23S-23W Hodgeman,KS

Hubin #2-10B

Job Ticket: 63135 **DST#: 1**
Test Start: 2018.08.10 @ 08:27:14

GENERAL INFORMATION:

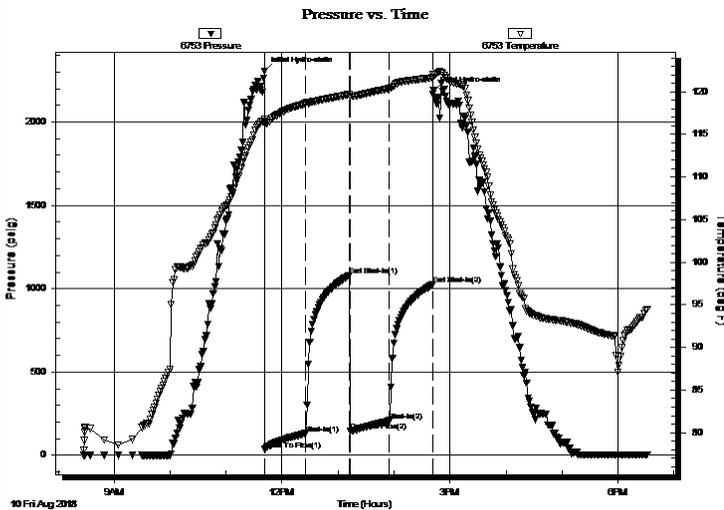
Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:41:44
Time Test Ended: 18:32:14
Interval: **4506.00 ft (KB) To 4579.00 ft (KB) (TVD)**
Total Depth: 4579.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Brannan Lonsdale
Unit No: 73
Reference Elevations: 2329.00 ft (KB)
2321.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press@RunDepth: 204.43 psig @ 4507.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.08.10 End Date: 2018.08.10 Last Calib.: 2018.08.10
Start Time: 08:27:19 End Time: 18:32:14 Time On Btm: 2018.08.10 @ 11:41:14
Time Off Btm: 2018.08.10 @ 14:42:14

TEST COMMENT: 45- IF- BOB 42 mins
45- IS- No blow
45- FF- BOB 42 mins
45- FS- No blow

PRESSURE SUMMARY



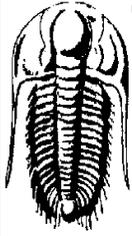
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.20	116.74	Initial Hydro-static
1	34.39	116.26	Open To Flow (1)
44	130.29	118.64	Shut-In(1)
91	1077.69	119.69	End Shut-In(1)
92	144.15	119.46	Open To Flow (2)
134	204.43	120.38	Shut-In(2)
180	1023.50	121.65	End Shut-In(2)
181	2188.15	121.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCM, 20%O 80%M	0.89
330.00	CGO, 20%G 80%O	1.62
0.00	90' GIP	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

10-23S-23W Hodgeman,KS

PO Box 399
Garden City, KS 67846

Hubin #2-10B

Job Ticket: 63135

DST#: 1

ATTN: Kevin Timson

Test Start: 2018.08.10 @ 08:27:14

Tool Information

Drill Pipe:	Length: 3993.00 ft	Diameter: 3.82 inches	Volume: 56.60 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: 514.00 ft	Diameter: 2.25 inches	Volume: 2.53 bbl	Weight to Pull Loose:	115000.0 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	102000.0 lb
Drill Pipe Above KB:	29.00 ft			Final	107000.0 lb
Depth to Top Packer:	4506.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	73.00 ft				
Tool Length:	101.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

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

Change Over Sub	1.00			4479.00	
Shut In Tool	5.00			4484.00	
Hydraulic tool	5.00			4489.00	
Jars	5.00			4494.00	
Safety Joint	3.00			4497.00	
Packer	5.00			4502.00	28.00 Bottom Of Top Packer
Packer	4.00			4506.00	
Stubb	1.00			4507.00	
Recorder	0.00	6771	Inside	4507.00	
Recorder	0.00	6753	Outside	4507.00	
Perforations	4.00			4511.00	
Change Over Sub	1.00			4512.00	
Drill Pipe	63.00			4575.00	
Change Over Sub	1.00			4576.00	
Bullnose	3.00			4579.00	73.00 Bottom Packers & Anchor

Total Tool Length: 101.00



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FLUID SUMMARY

American Warrior, Inc.

10-23S-23W Hodgeman,KS

PO Box 399
Garden City, KS 67846

Hubin #2-10B

Job Ticket: 63135

DST#: 1

ATTN: Kevin Timson

Test Start: 2018.08.10 @ 08:27:14

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	OCM, 20%O 80%M	0.885
330.00	CGO, 20%G 80%O	1.623
0.00	90' GIP	0.000

Total Length: 510.00 ft

Total Volume: 2.508 bbl

Num Fluid Samples: 0

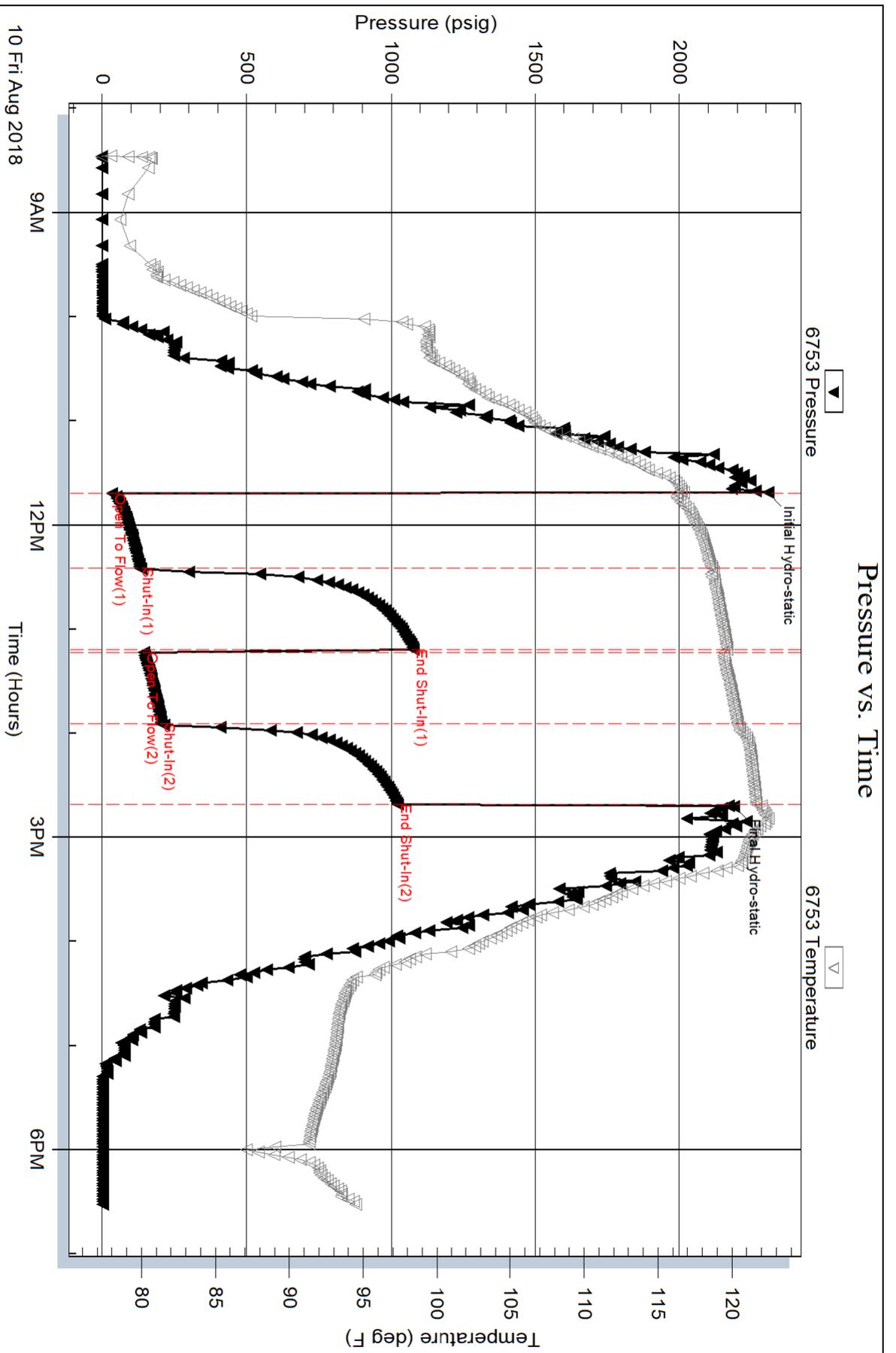
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



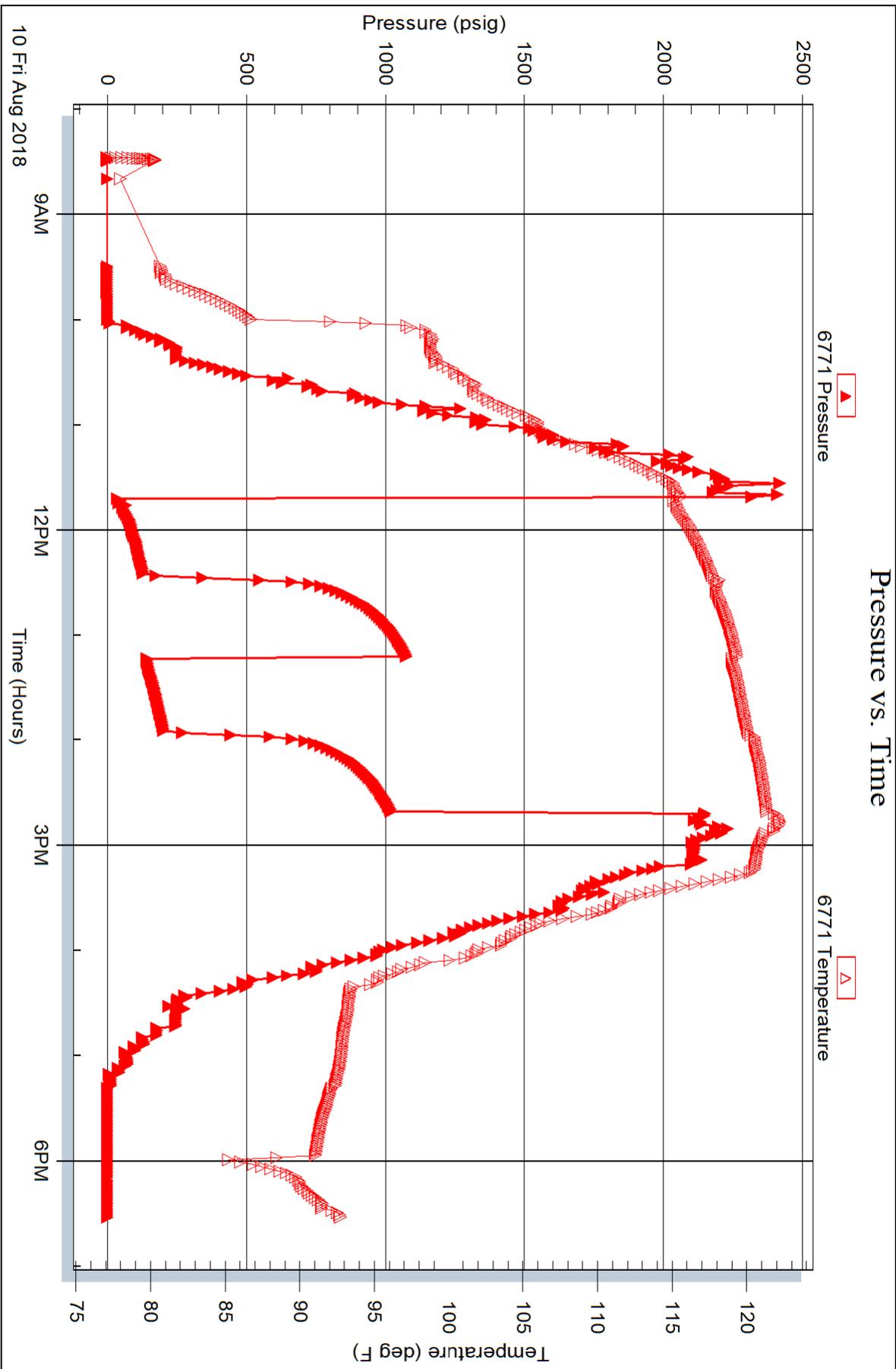
Serial #: 6771

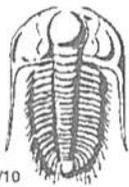
Inside

American Warrior, Inc.

Hublin #2-10B

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63135**

Well Name & No. Hubin #2-10B Test No. 1 Date 8/10/18
 Company American Warrior, Inc. Elevation 2329 KB 2321 GL
 Address 3118 Cummings Rd., PO Box 399 Garden City, KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke #5
 Location: Sec. 10 Twp. 23 S Rge. 23 W Co. Hodgeman State KS

Interval Tested 4506-4579 Zone Tested Mass
 Anchor Length 73' Drill Pipe Run 3993 Mud Wt. 9.1
 Top Packer Depth 4501 Drill Collars Run 514 Vis 52
 Bottom Packer Depth 4506 Wt. Pipe Run — WL 8.4
 Total Depth 4579 Chlorides 3,900 ppm System LCM 2nd

Blow Description JF - BOB 42 mins
RF - No blow
FF - BOB 42 mins
RF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>OCM</u>	<u>20</u>	<u>80</u>	<u>80</u>	<u>80</u>
<u>330</u>	<u>CCO</u>	<u>20</u>	<u>80</u>	<u>80</u>	<u>80</u>
<u>90'</u>	<u>GIP</u>				

Rec Total 510 BHT 122° Gravity 31 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2306 Test 1150 T-On Location 0255
 (B) First Initial Flow 34 Jars 250 T-Started 0827
 (C) First Final Flow 130 Safety Joint 75 T-Open 1141
 (D) Initial Shut-In 1078 Circ Sub — T-Pulled 1441
 (E) Second Initial Flow 144 Hourly Standby — T-Out 1832
 (F) Second Final Flow 204 Mileage 176 RT 176 Comments —
 (G) Final Shut-In 1024 Sampler —
 (H) Final Hydrostatic 2188 Straddle —
 Shale Packer —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 1651

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 1651
 MP/DST Disc't —

Approved By _____

Our Representative
Brannan Lonsdale