



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

3118 Cummings Rd
Garden City KS 67846

ATTN: Wyatt Urban

Habiger Unit #1-14

14-18s-10w Rice,KS

Start Date: 2014.10.13 @ 23:00:00

End Date: 2014.10.14 @ 04:52:00

Job Ticket #: 60450 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc
3118 Cummings Rd
Garden City KS 67846
ATTN: Wyatt Urban

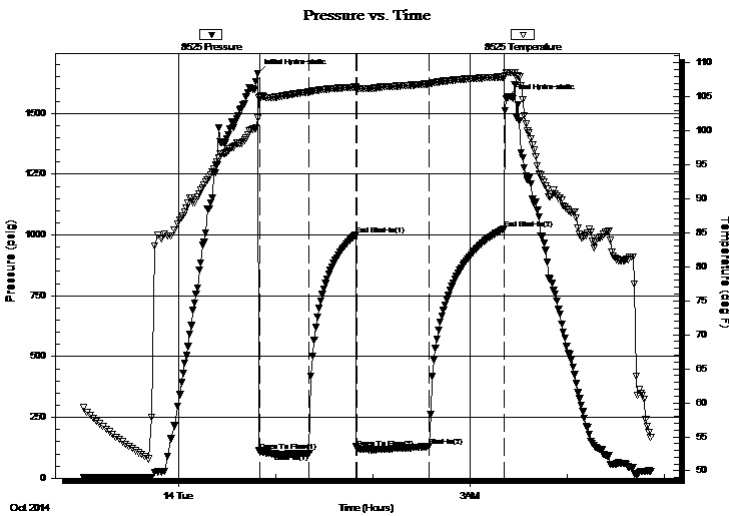
14-18s-10w Rice, KS
Habiger Unit #1-14
Job Ticket: 60450 **DST#: 1**
Test Start: 2014.10.13 @ 23:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:50:00
Time Test Ended: 04:52:00
Interval: **3204.00 ft (KB) To 3285.00 ft (KB) (TVD)**
Total Depth: 3285.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: S5
Reference Elevations: 1765.00 ft (KB)
1757.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8525 Outside
Press@RunDepth: 129.90 psig @ 3271.00 ft (KB) Capacity: 5000.00 psig
Start Date: 2014.10.13 End Date: 2014.10.14 Last Calib.: 2014.10.14
Start Time: 23:01:00 End Time: 04:52:00 Time On Btm: 2014.10.14 @ 00:48:30
Time Off Btm: 2014.10.14 @ 03:22:30

TEST COMMENT: IFP 30 - Fair blow built bottom of bucket in 22 minutes tool chased 10 feet to bottom
ISIP 30 - No blow back
FFP 45 - Weak blow built bottom of bucket in 45 minutes
FSIP 45 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1664.65	101.84	Initial Hydro-static
2	112.00	104.97	Open To Flow (1)
32	103.19	105.69	Shut-In(1)
61	998.92	106.44	End Shut-In(1)
62	123.76	106.23	Open To Flow (2)
106	129.90	106.91	Shut-In(2)
153	1025.81	107.94	End Shut-In(2)
154	1561.66	108.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	oil cut mud 10%oil 90%mud	0.84
60.00	Mud Oil 20%mud 80%oil	0.84
60.00	Gas oil 10%gas 90%oil	0.84

Gas Rates

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



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TOOL DIAGRAM

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14-18s-10w Rice,KS
Habiger Unit #1-14
Job Ticket: 60450 **DST#: 1**
Test Start: 2014.10.13 @ 23:00:00

Tool Information

Drill Pipe:	Length: 3183.00 ft	Diameter: 3.80 inches	Volume: 44.65 bbl	Tool Weight: 1000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.65 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3204.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	109.00 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			3181.00	
Hydraulic tool	5.00			3186.00	
Jars	6.00			3192.00	
Safety Joint	2.00			3194.00	
Packer	5.00			3199.00	28.00 Bottom Of Top Packer
Packer	5.00			3204.00	
Change Over Sub	0.75			3204.75	
Drill Pipe	63.50			3268.25	
Change Over Sub	0.75			3269.00	
Recorder	1.00	8400	Inside	3270.00	
Recorder	1.00	8525	Outside	3271.00	
Anchor	11.00			3282.00	
Bullnose	3.00			3285.00	81.00 Bottom Packers & Anchor

Total Tool Length: 109.00



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FLUID SUMMARY

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14-18s-10w Rice,KS
Habiger Unit #1-14
Job Ticket: 60450 **DST#: 1**
Test Start: 2014.10.13 @ 23:00:00

Mud and Cushion Information

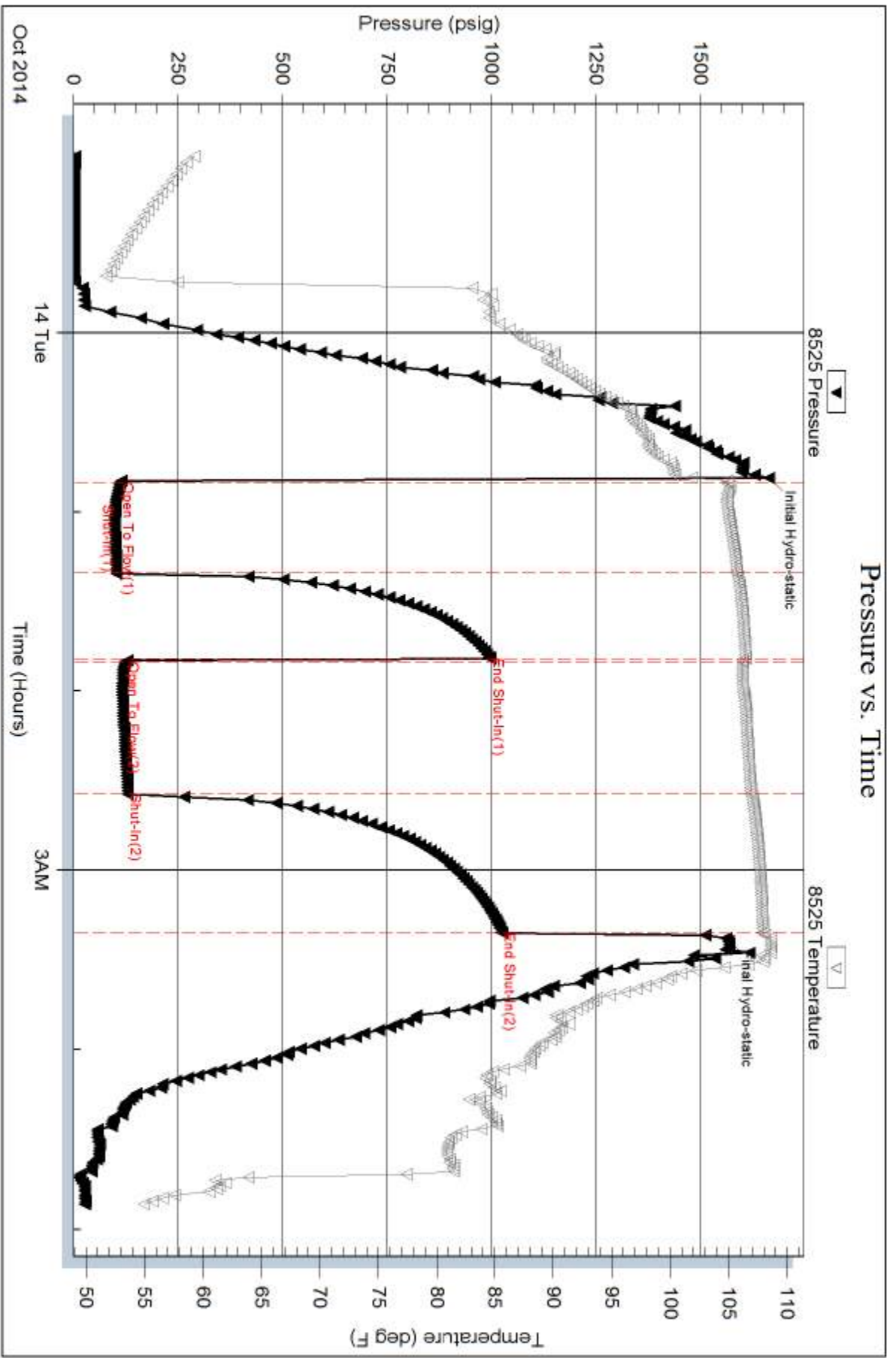
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3400.00 ppm			
Filter Cake: 1.00 inches			

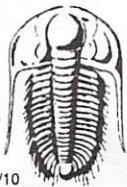
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	oil cut mud 10%oil 90%mud	0.842
60.00	Mud Oil 20%mud 80%oil	0.842
60.00	Gas oil 10%gas 90%oil	0.842

Total Length: 180.00 ft Total Volume: 2.526 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **60450**

4/10

Well Name & No. Habiger Unit # 1-14 Test No. 1 Date 10-13-2014
 Company American Warrior Inc Elevation 1765 KB 1757 GL
 Address 3118 Cummings RD Garden City KS 67846
 Co. Rep / Geo. Wyatt Vidvan Rig Duke Drilling Rig #8
 Location: Sec. 14 Twp. 18 Rge. 10 Co. Rice State KS

Interval Tested 3204-3285 Zone Tested Arbuckle
 Anchor Length 8100 Drill Pipe Run 3183 Mud Wt. 9.0
 Top Packer Depth 3199 Drill Collars Run - Vis 50
 Bottom Packer Depth 3204 Wt. Pipe Run - WL 8.0
 Total Depth 3285 Chlorides 3400 ppm System LCM -

Blow Description IFP - Fair Blow Built Bottom of Bucket in 22 minutes Tool chesed 10 feet
ISIP - NO Blow Back
FFP - Weak Blow Built Bottom Bucket in 45 minutes
FSIP - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Gas oil</u>	<u>10</u>	<u>90</u>		
<u>60</u>	<u>m.o.</u>		<u>80</u>		<u>20</u>
<u>60</u>	<u>spoil cement</u>		<u>10</u>		<u>90</u>

Rec Total 180 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1664 Test 1150 T-On Location 10:40pm
 (B) First Initial Flow 112 Jars 250 T-Started 11:00pm
 (C) First Final Flow 103 Safety Joint 75 T-Open 12:45a
 (D) Initial Shut-In 998 Circ Sub _____ T-Pulled 3:15a
 (E) Second Initial Flow 123 Hourly Standby _____ T-Out 4:52a
 (F) Second Final Flow 129 Mileage 70 RT Great Bend Comments _____
 (G) Final Shut-In 1025 Sampler 52rt 80.60 _____
 (H) Final Hydrostatic 1561 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1555.60
 Sub Total 1555.60 Accessibility _____ MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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