

15-083-21596

K63



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **American Warrior**

PO Box 399  
Garden City, KS 67846

ATTN: Jason Alm

**25 22 24 Hodgeman KS**

**Springer #6-25**

Start Date: 2009.03.06 @ 08:00:05

End Date: 2009.03.06 @ 15:14:14

Job Ticket #: 33591      DST #: 1

RECEIVED  
JUN 04 2009  
KANSAS CORPORATION

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

American Warrior

Springer #6-25

25 22 24 Hodgeman KS

DST # 1

Cherokee Sand

2009.03.06



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

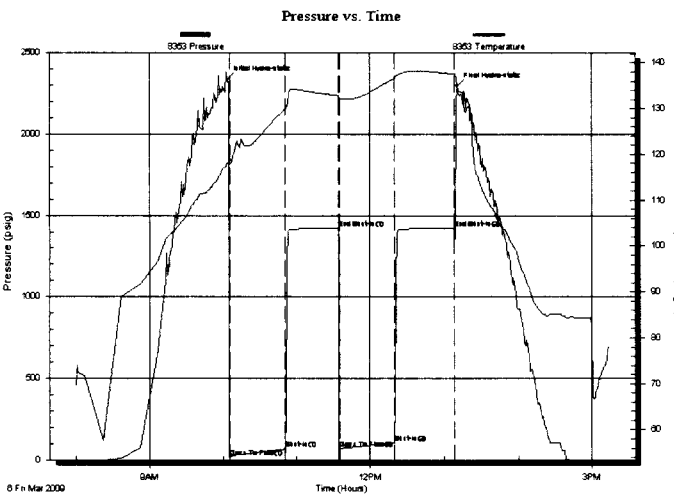
**Springer #6-25**  
**25 22 24 Hodgeman KS**  
Job Ticket: 33591      **DST#: 1**  
Test Start: 2009.03.06 @ 08:00:05

**GENERAL INFORMATION:**

Formation: **Cherokee Sand**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 10:05:15  
Time Test Ended: 15:14:14  
Interval: **4580.00 ft (KB) To 4596.00 ft (KB) (TVD)**  
Total Depth: 4596.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Brandon Domsch  
Unit No: 48  
Reference Elevations: 2359.00 ft (KB)  
2351.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8353      Inside**  
Press@RunDepth: 106.13 psig @ 4581.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2009.03.06      End Date: 2009.03.06      Last Calib.: 2009.03.06  
Start Time: 08:00:05      End Time: 15:14:14      Time On Btm: 2009.03.06 @ 10:03:30  
Time Off Btm: 2009.03.06 @ 13:10:14

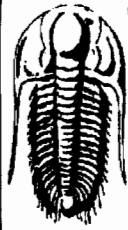
**TEST COMMENT:** IF: Built to 8 1/2 inches.  
IS: No return.  
FF: Built to 7 inches.  
FS: No return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2335.21	118.00	Initial Hydro-static
2	18.01	117.42	Open To Flow (1)
47	67.15	129.74	Shut-In(1)
91	1420.04	132.83	End Shut-In(1)
92	69.77	132.31	Open To Flow(2)
137	106.13	136.56	Shut-In(2)
185	1419.44	137.52	End Shut-In(2)
187	2295.74	135.22	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	M 100% <sub>m</sub>	0.07
170.00	WCM 80% <sub>w</sub> 20% <sub>m</sub>	2.24
10.00	O 100% <sub>o</sub>	0.14
0.00	GIP = 0	0.00
0.00	RW = .22@76F= 30000 ppm	0.00
0.00	API = 38@80F = 36	0.00

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior

**Springer #6-25**

PO Box 399  
Garden City, KS 67846

**25 22 24 Hodgeman KS**

Job Ticket: 33591

**DST#: 1**

ATTN: Jason Alm

Test Start: 2009.03.06 @ 08:00:05

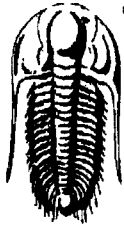
### Tool Information

Drill Pipe:	Length: 4526.00 ft	Diameter: 3.80 inches	Volume: 63.49 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 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: 72000.00 lb
			<u>Total Volume: 63.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4580.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	44.00 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			4553.00	
Shut In Tool	5.00			4558.00	
Hydraulic tool	5.00			4563.00	
Jars	5.00			4568.00	
Safety Joint	3.00			4571.00	
Packer	5.00			4576.00	28.00 Bottom Of Top Packer
Packer	4.00			4580.00	
Stubb	1.00			4581.00	
Recorder	0.00	8353	Inside	4581.00	
Recorder	0.00	6741	Inside	4581.00	
Perforations	10.00			4591.00	
Bullnose	5.00			4596.00	16.00 Bottom Packers & Anchor

**Total Tool Length: 44.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior

**Springer #6-25**

PO Box 399  
Garden City, KS 67846

**25 22 24 Hodgeman KS**

Job Ticket: 33591      **DST#: 1**

ATTN: Jason Alm

Test Start: 2009.03.06 @ 08:00:05

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 30000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.75 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5600.00 ppm		
Filter Cake: 1.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
15.00	M 100% <sub>m</sub>	0.074
170.00	WCM 80% <sub>w</sub> 20% <sub>m</sub>	2.239
10.00	O 100% <sub>o</sub>	0.140
0.00	GIP = 0	0.000
0.00	RW = .22@76F= 30000 ppm	0.000
0.00	API = 38@80F = 36	0.000

Total Length: 195.00 ft      Total Volume: 2.453 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

# Pressure vs. Time

