

15-083-21594

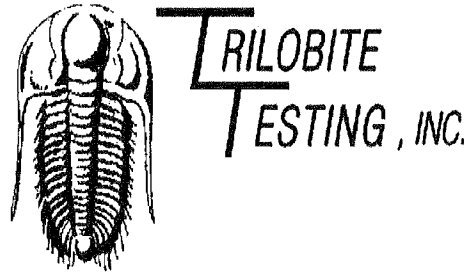
19-225-23w

IND

CONFIDENTIAL

JUL 13 2009

KCC



DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

19 22 23 Hodgeman KS

Rudzik #2-19

Start Date: 2009.05.01 @ 01:30:00

End Date: 2009.05.01 @ 09:04:45

Job Ticket #: 36322 DST #: 1

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

American Warrior

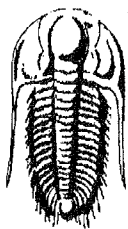
Rudzik #2-19

19 22 23 Hodgeman KS

DST # 1

Cherokee Sand

2009.05.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

Rudzik #2-19
19 22 23 Hodgeman KS
Job Ticket: 36322 **DST#: 1**
Test Start: 2009.05.01 @ 01:30:00

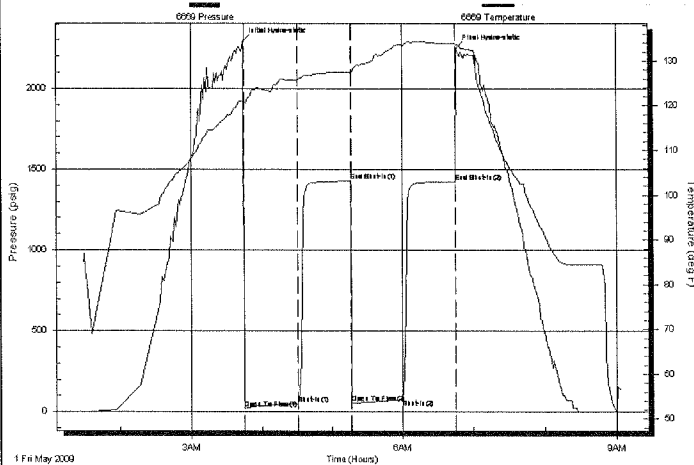
GENERAL INFORMATION:

Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:44:30
Time Test Ended: 09:04:45
Interval: **4602.00 ft (KB) To 4635.00 ft (KB) (TVD)**
Total Depth: 4635.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 44
Reference Elevations: 2384.00 ft (KB)
2376.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6669 Inside
Press@RunDepth: 76.29 psig @ 4603.00 ft (KB)
Start Date: 2009.05.01 End Date: 2009.05.01
Start Time: 01:30:01 End Time: 09:04:45
Capacity: 7000.00 psig
Last Calib.: 2009.05.01
Time On Btm: 2009.05.01 @ 03:44:00
Time Off Btm: 2009.05.01 @ 06:46:15

TEST COMMENT: IFP-Weak surface blow built to 5"
ISI-no blow back
FFP-Weak surface blow built to 2"
FSI-no blow back

Pressure vs. Time



PRESSURE SUMMARY

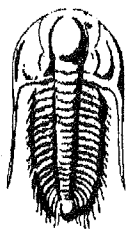
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2290.53	121.14	Initial Hydro-static
1	19.02	120.85	Open To Flow (1)
47	51.88	125.81	Shut-In (1)
93	1426.77	127.51	End Shut-In (1)
93	57.52	127.36	Open To Flow (2)
136	76.29	133.58	Shut-In (2)
181	1424.62	133.85	End Shut-In (2)
183	2249.30	133.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM 20%O,80%M	1.00
40.00	CO	0.57

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

Rudzik #2-19

PO Box 399
Garden City, KS 67846

19 22 23 Hodgeman KS

Job Ticket: 36322

DST#: 1

ATTN: Jason Alm

Test Start: 2009.05.01 @ 01:30:00

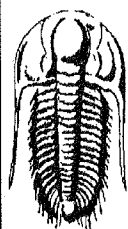
Tool Information

Drill Pipe:	Length: 4556.00 ft	Diameter: 3.82 inches	Volume: 64.58 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	64.73 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4602.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	62.00 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			4574.00	
Shut In Tool	5.00			4579.00	
Hydraulic tool	5.00			4584.00	
Jars	5.00			4589.00	
Safety Joint	3.00			4592.00	
Packer	5.00			4597.00	29.00 Bottom Of Top Packer
Packer	5.00			4602.00	
Stubb	1.00			4603.00	
Recorder	0.00	6669	Inside	4603.00	
Recorder	0.00	6719	Inside	4603.00	
Perforations	29.00			4632.00	
Bullnose	3.00			4635.00	33.00 Bottom Packers & Anchor

Total Tool Length: 62.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

Rudzik #2-19

PO Box 399
Garden City, KS 67846

19 22 23 Hodgeman KS

Job Ticket: 36322

DST#: 1

ATTN: Jason Alm

Test Start: 2009.05.01 @ 01:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	OCM 20%O,80%M	0.998
40.00	CO	0.567

Total Length: 130.00 ft

Total Volume: 1.565 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

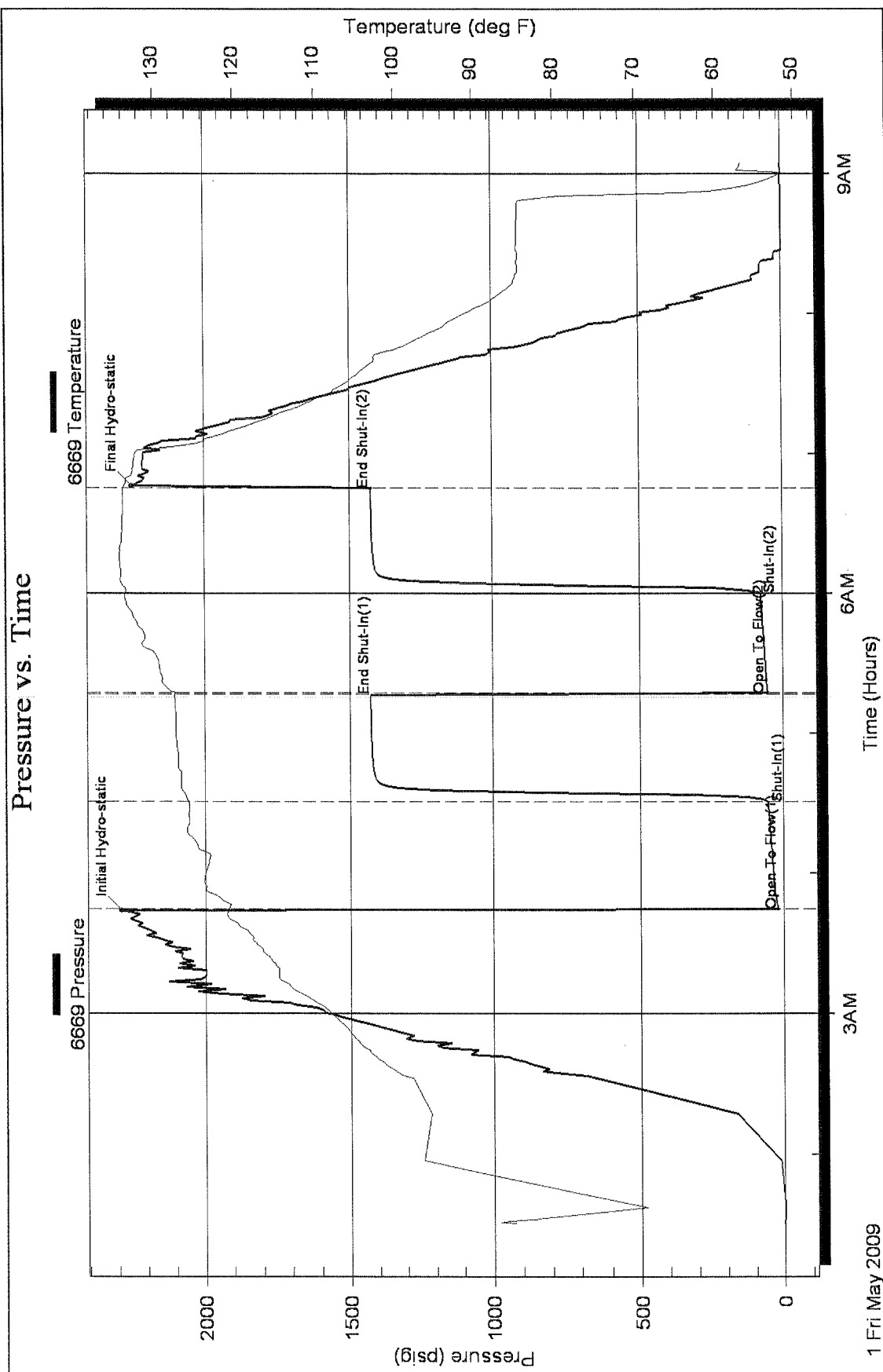
DST Test Number: 1

19 22 23 Hodgeman KS

Inside American Warrior

Serial #: 6669

Pressure vs. Time



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Ref. No: 36322

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