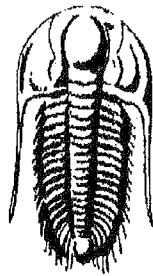


15-167-23549

22-11s-15w

KCS ✓



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City, KS 67846-0399

ATTN: Jason Alm

22-11-15 Russell KS

Miller #1-22

Start Date: 2008.11.28 @ 20:41:18

End Date: 2008.11.29 @ 03:07:48

Job Ticket #: 34954 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

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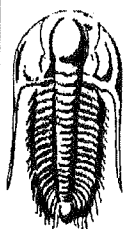
Miller #1-22

22-11-15 Russell KS

DST # 1

LKC "C-D"

2008.11.28



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

American Warrior

PO Box 399
Garden City, KS 67846-0399

ATTN: Jason Alm

Miller #1-22

22-11-15 Russell KS

Job Ticket: 34954

DST#: 1

Test Start: 2008.11.28 @ 20:41:18

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:30:48

Time Test Ended: 03:07:48

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 31

Interval: 2988.00 ft (KB) To 3035.00 ft (KB) (TVD)

Total Depth: 3035.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1823.00 ft (KB)

1815.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8319

Inside

Press@RunDepth: 151.50 psig @ 2994.00 ft (KB)

Start Date: 2008.11.28

End Date: 2008.11.29

Start Time: 20:41:23

End Time: 03:07:47

Capacity: 7000.00 psig

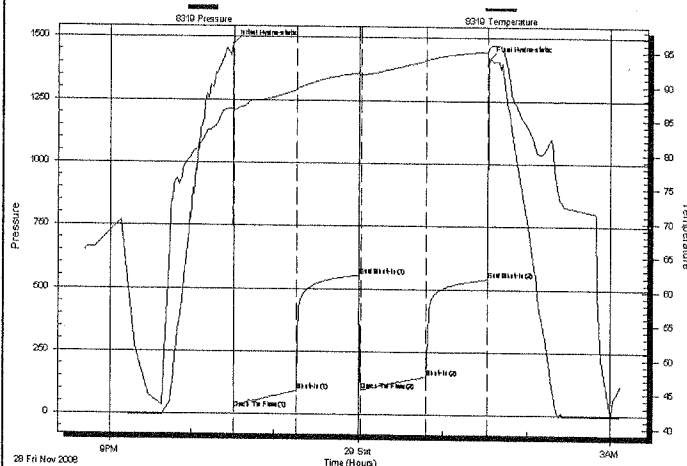
Last Calib.: 2008.11.29

Time On Btm: 2008.11.28 @ 22:30:18

Time Off Btm: 2008.11.29 @ 01:32:17

TEST COMMENT: IF BOB 21 min
FF BOB 35 min

Pressure vs. Time



PRESSURE SUMMARY

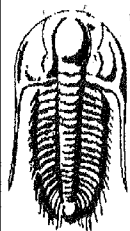
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1471.56	86.61	Initial Hydro-static
1	20.43	86.27	Open To Flow (1)
46	93.84	89.39	Shut-In (1)
90	553.59	91.87	End Shut-In (1)
91	96.81	91.69	Open To Flow (2)
138	151.50	93.73	Shut-In (2)
182	539.55	95.07	End Shut-In (2)
182	1414.38	95.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	MdyWtr	3.76

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

Miller #1-22

PO Box 399
Garden City, KS 67846-0399

22-11-15 Russell KS

ATTN: Jason Alm

Job Ticket: 34954

DST#: 1

Test Start: 2008.11.28 @ 20:41:18

Tool Information

Drill Pipe:	Length: 2970.00 ft	Diameter: 3.82 inches	Volume: 42.10 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	42.25 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	2988.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.00 ft				
Tool Length:	67.00 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		2969.00	
Shut In Tool	5.00		2974.00	
Hydraulic tool	5.00		2979.00	
Packer	4.00		2983.00	20.00 Bottom Of Top Packer
Packer	5.00		2988.00	
Stubb	1.00		2989.00	
Perforations	4.00		2993.00	
Change Over Sub	1.00		2994.00	
Recorder	0.00	8319 Inside	2994.00	
Recorder	0.00	8369 Inside	2994.00	
Blank Spacing	32.00		3026.00	
Change Over Sub	1.00		3027.00	
Perforations	5.00		3032.00	
Bullnose	3.00		3035.00	47.00 Bottom Packers & Anchor

Total Tool Length: 67.00

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

Miller #1-22

PO Box 399
Garden City, KS 67846-0399

22-11-15 Russell KS

Job Ticket: 34954

DST#: 1

ATTN: Jason Alm

Test Start: 2008.11.28 @ 20:41:18

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: 40000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
285.00	MdyWtr	3.762

Total Length: 285.00 ft Total Volume: 3.762 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

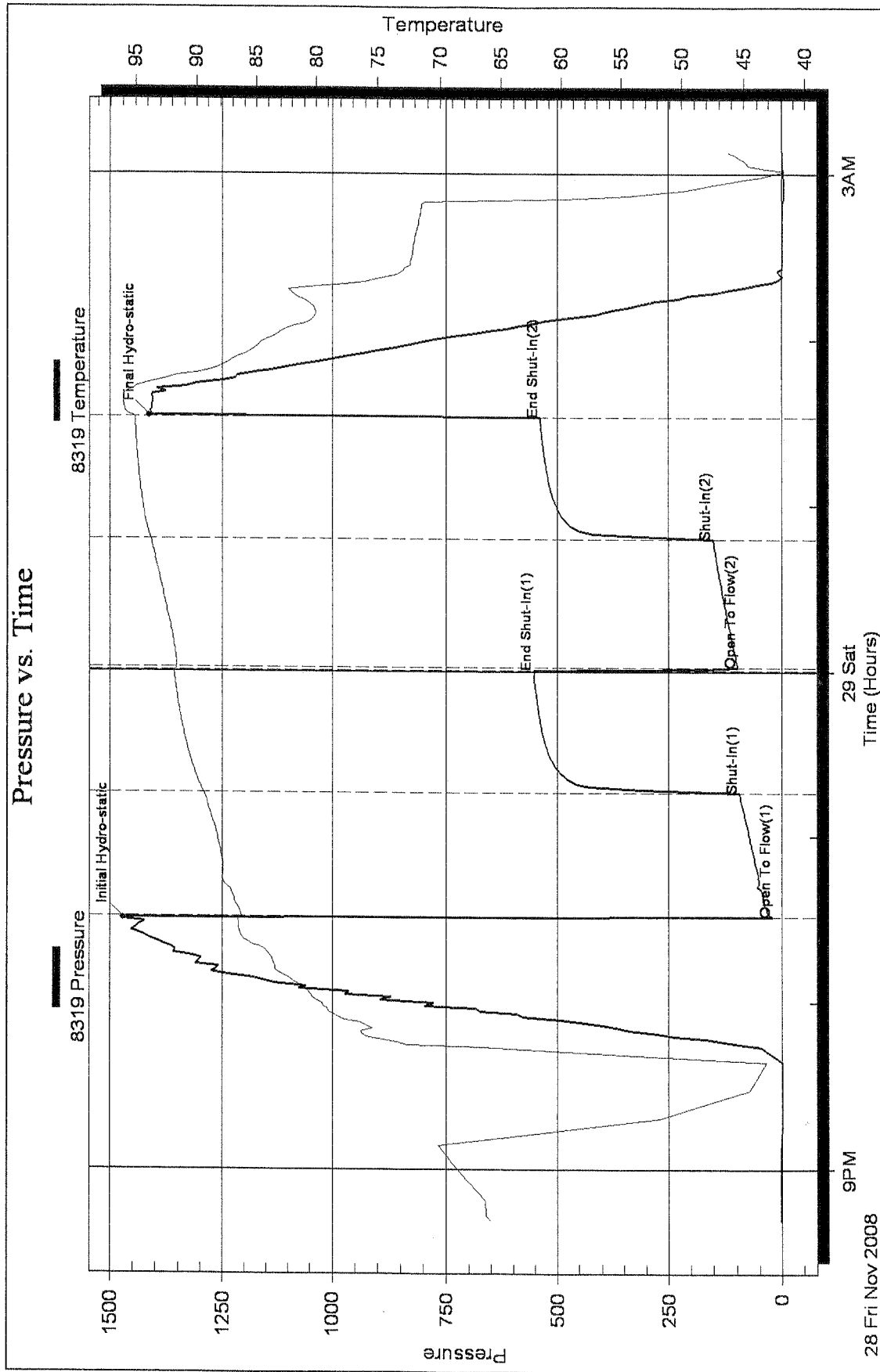
Serial #:

Laboratory Name:

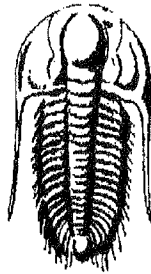
Laboratory Location:

Recovery Comments: rw .22 @ 60 deg.

Pressure vs. Time



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DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City, KS 67846-0399

ATTN: Jason Alm

22-11-15 Russell KS

Miller #1-22

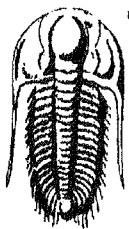
Start Date: 2008.11.29 @ 14:59:08

End Date: 2008.11.29 @ 19:54:38

Job Ticket #: 34955 DST #: 2

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DRILL STEM TEST REPORT

American Warrior

PO Box 399
Garden City, KS 67846-0399

ATTN: Jason Alm

Miller #1-22

22-11-15 Russell KS

Job Ticket: 34955

DST#: 2

Test Start: 2008.11.29 @ 14:59:08

GENERAL INFORMATION:

Formation: **LKC "J-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:32:38

Time Test Ended: 19:54:38

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 31

Interval: **3144.00 ft (KB) To 3205.00 ft (KB) (TVD)**

Total Depth: 3205.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1823.00 ft (KB)

1815.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8319

Inside

Press@RunDepth: 20.07 psig @ 3150.00 ft (KB)

Start Date: 2008.11.29

End Date:

2008.11.29

Start Time: 14:59:13

End Time:

19:54:37

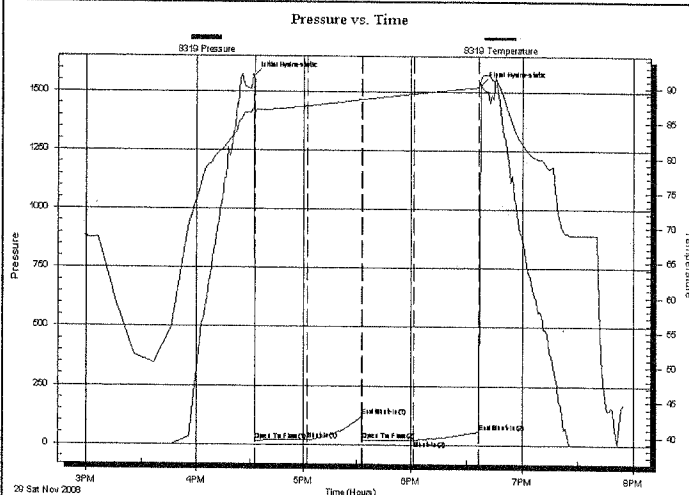
Capacity: 7000.00 psig

Last Calib.: 2008.11.29

Time On Btm: 2008.11.29 @ 16:32:08

Time Off Btm: 2008.11.29 @ 18:37:38

TEST COMMENT: IF 1/4" Died 11 min
FF Weak surface died 1 min



PRESSURE SUMMARY

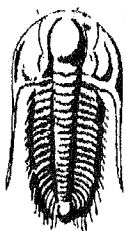
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1566.70	87.09	Initial Hydro-static
1	15.43	86.51	Open To Flow (1)
30	17.57	87.39	Shut-In(1)
61	120.18	88.35	End Shut-In(1)
61	19.01	88.33	Open To Flow (2)
90	20.07	89.21	Shut-In(2)
125	56.03	90.15	End Shut-In(2)
126	1530.10	91.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

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

Miller #1-22

PO Box 399
Garden City, KS 67846-0399

22-11-15 Russell KS

ATTN: Jason Alm

Job Ticket: 34955

DST#: 2

Test Start: 2008.11.29 @ 14:59:08

Tool Information

Drill Pipe:	Length: 3097.00 ft	Diameter: 3.82 inches	Volume: 43.90 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 44.05 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3144.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

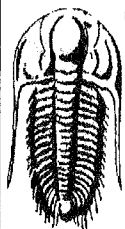
Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		3125.00	
Shut In Tool	5.00		3130.00	
Hydraulic tool	5.00		3135.00	
Packer	4.00		3139.00	20.00 Bottom Of Top Packer
Packer	5.00		3144.00	
Stubb	1.00		3145.00	
Perforations	4.00		3149.00	
Change Over Sub	1.00		3150.00	
Recorder	0.00	8319 Inside	3150.00	
Recorder	0.00	8369 Inside	3150.00	
Blank Spacing	31.00		3181.00	
Change Over Sub	1.00		3182.00	
Perforations	20.00		3202.00	
Bullnose	3.00		3205.00	61.00 Bottom Packers & Anchor

Total Tool Length: 81.00

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TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

Miller #1-22

PO Box 399
Garden City, KS 67846-0399

22-11-15 Russell KS

Job Ticket: 34955

DST#: 2

ATTN: Jason Alm

Test Start: 2008.11.29 @ 14:59:08

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

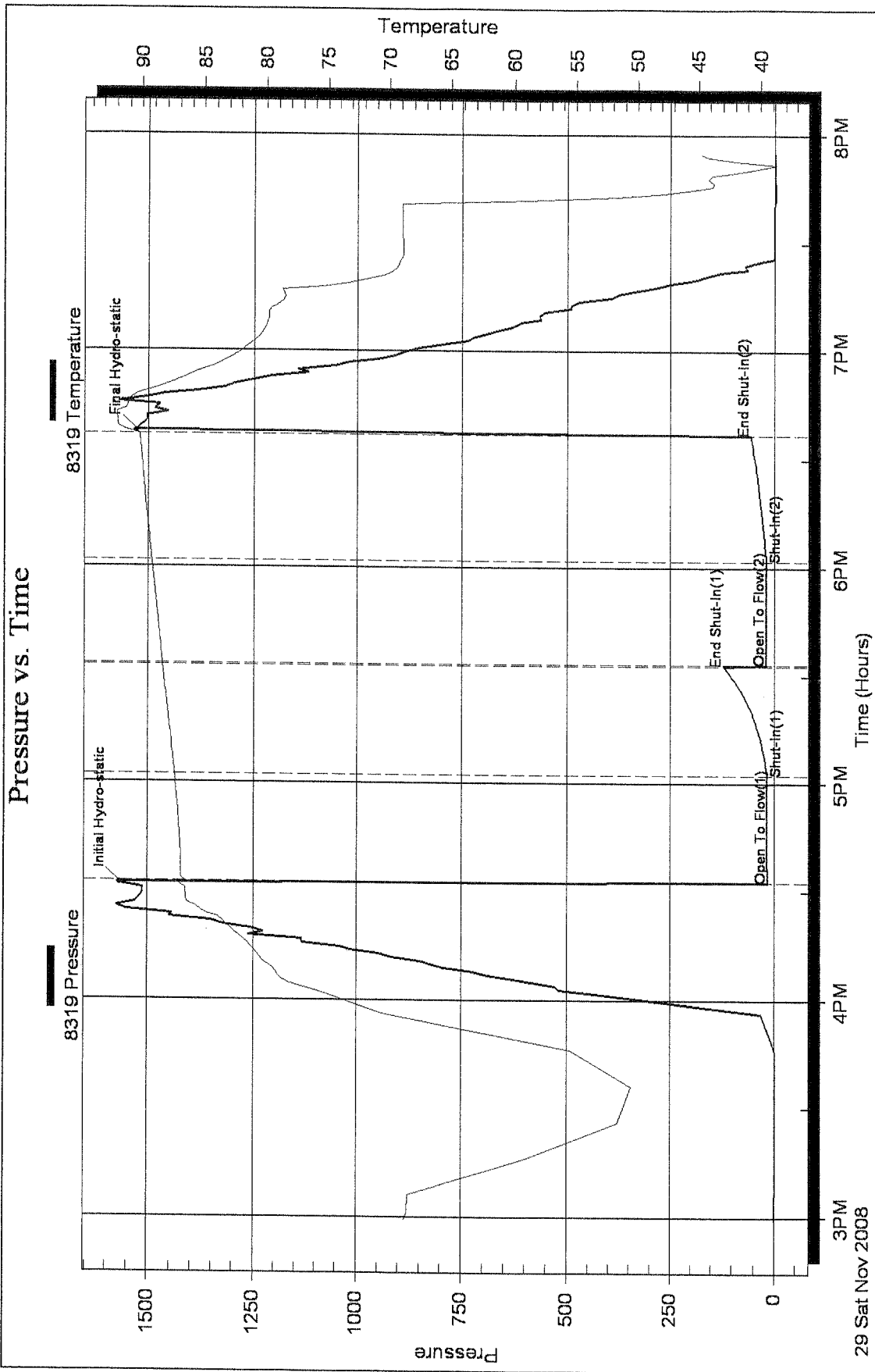
Inside

American Warrior

22-11-15 Russell KS

DST Test Number: 2

Pressure vs. Time



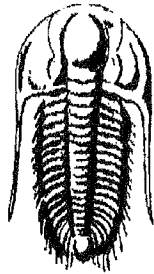
Trilobite Testing, Inc

Ref. No: 34955

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APR 24 2009

Printed: 2008.12.10 @ 10:53:26 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City, KS 67846-0399

ATTN: Jason Alm

22-11-15 Russell KS

Miller #1-22

Start Date: 2008.11.30 @ 06:02:22

End Date: 2008.11.30 @ 11:19:22

Job Ticket #: 34956 DST #: 3

Trilobite Testing, Inc

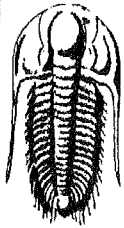
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TESTING, INC.

DRILL STEM TEST REPORT

American Warrior

PO Box 399
Garden City, KS 67846-0399

ATTN: Jason Alm

Miller #1-22

22-11-15 Russell KS

Job Ticket: 34956

DST#: 3

Test Start: 2008.11.30 @ 06:02:22

GENERAL INFORMATION:

Formation: **Arb**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:42:52

Time Test Ended: 11:19:22

Interval: **3280.00 ft (KB) To 3315.00 ft (KB) (TVD)**

Total Depth: 3315.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 31

Reference Elevations: 1823.00 ft (KB)

1815.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8319 Inside

Press@RunDepth: 18.28 psig @ 3285.00 ft (KB)

Start Date: 2008.11.30

End Date: 2008.11.30

Start Time: 06:02:27

End Time: 11:19:21

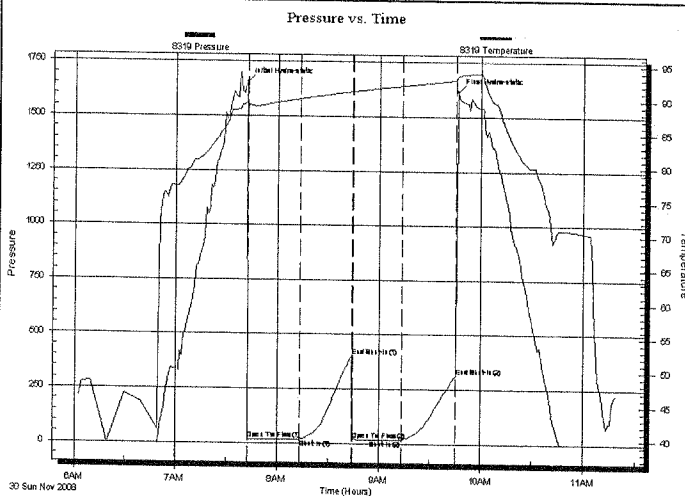
Capacity: 7000.00 psig

Last Calib.: 2008.11.30

Time On Btm: 2008.11.30 @ 07:42:22

Time Off Btm: 2008.11.30 @ 09:46:22

TEST COMMENT: IF Surface died 10 min
FF Surface died 5 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.10	89.43	Initial Hydro-static
1	15.37	88.86	Open To Flow (1)
31	16.79	90.06	Shut-In (1)
62	402.92	91.18	End Shut-In (1)
62	18.83	91.10	Open To Flow (2)
91	18.28	92.03	Shut-In (2)
123	313.55	92.89	End Shut-In (2)
124	1615.14	93.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 3% O 97% M	0.05
2.00	Clean Oil	0.01

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

Miller #1-22

PO Box 399
Garden City, KS 67846-0399

22-11-15 Russell KS

Job Ticket: 34956

DST#: 3

ATTN: Jason Alm

Test Start: 2008.11.30 @ 06:02:22

Tool Information

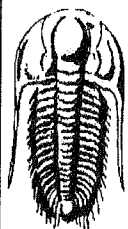
Drill Pipe:	Length: 3256.00 ft	Diameter: 3.82 inches	Volume: 46.16 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	46.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3280.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	55.00 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			3261.00	
Shut In Tool	5.00			3266.00	
Hydraulic tool	5.00			3271.00	
Packer	4.00			3275.00	20.00 Bottom Of Top Packer
Packer	5.00			3280.00	
Stubb	1.00			3281.00	
Perforations	4.00			3285.00	
Recorder	0.00	8319	Inside	3285.00	
Recorder	0.00	8369	Inside	3285.00	
Perforations	27.00			3312.00	
Bullnose	3.00			3315.00	35.00 Bottom Packers & Anchor

Total Tool Length: 55.00

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TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

Miller #1-22

PO Box 399
Garden City, KS 67846-0399

22-11-15 Russell KS

Job Ticket: 34956

DST#: 3

ATTN: Jason Alm

Test Start: 2008.11.30 @ 06:02:22

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 3%O 97%M	0.049
2.00	Clean Oil	0.010

Total Length: 12.00 ft

Total Volume: 0.059 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

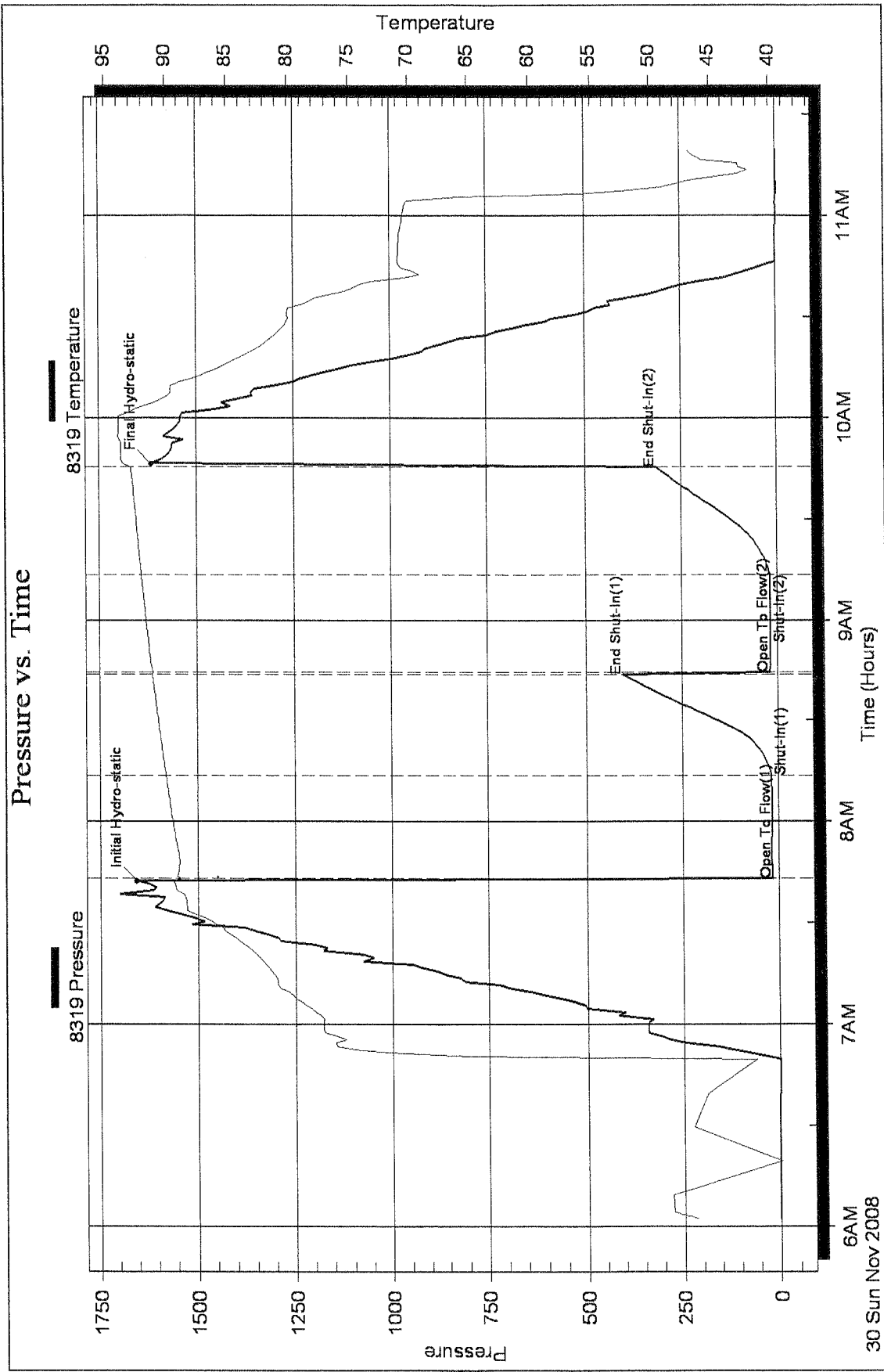
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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