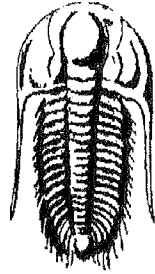


15-065-23474

16-7s-22w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Werth Exploration Trust**

1308 Schwaller Ave
Hays Ks 67601

ATTN: Andy Werth

16 7 22 Graham, Ks

Worcester SW # 1

Start Date: 2008.09.18 @ 06:51:31

End Date: 2008.09.18 @ 14:07:31

Job Ticket #: 33115 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

OCT 01 2008

CONSERVATION DIVISION
WICHITA, KS

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

Werth Exploration Trust

Worcester SW # 1

16 7 22 Graham, Ks

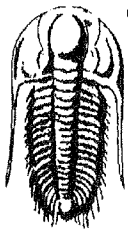
M

DST # 1

C-D-E-F

L

2008.09.18



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Werth Exploration Trust

1308 Schwaller Ave
Hays Ks 67601

ATTN: Andy Werth

Worcester SW # 1

16 7 22 Graham, Ks

Job Ticket: 33115

DST#: 1

Test Start: 2008.09.18 @ 06:51:31

GENERAL INFORMATION:

Formation: **C-D-E-F L**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 09:33:31

Time Test Ended: 14:07:31

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **38**

Interval: 3546.00 ft (KB) To 3617.00 ft (KB) (TVD)

Total Depth: **3617.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: ft (KB)

2285.00 ft (CF)

KB to GR/CF: ft

Serial #: 8372

Inside

Press@RunDepth: **756.28 psig @ 3550.00 ft (KB)**

Start Date: **2008.09.18**

End Date: **2008.09.18**

Start Time: **06:51:32**

End Time: **14:07:31**

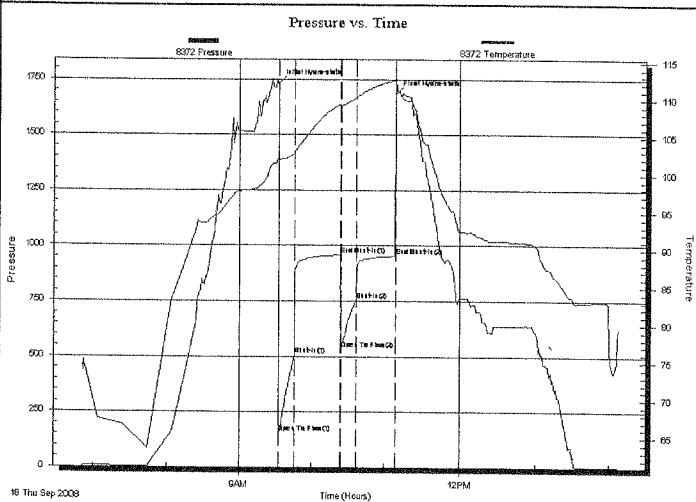
Capacity: **7000.00 psig**

Last Calib.: **2008.09.18**

Time On Btm: **2008.09.18 @ 09:33:01**

Time Off Btm: **2008.09.18 @ 11:09:31**

TEST COMMENT: IF-Strong BOB in 1 min
FF-Strong BOB in 1 min



PRESSURE SUMMARY

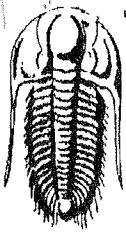
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1733.61	102.29	Initial Hydro-static
1	154.65	101.87	Open To Flow (1)
13	506.04	102.94	Shut-In(1)
51	957.64	109.39	End Shut-In(1)
52	532.69	109.22	Open To Flow (2)
64	756.28	110.22	Shut-In(2)
96	952.92	112.58	End Shut-In(2)
97	1684.61	112.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2045.00	SltlyOCMdyWtr 2%o 88%w 10%m	28.69

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Werth Exploration Trust

Worcester SW # 1

1308 Schwaller Ave
Hays Ks 67601

16 7 22 Graham, Ks

Job Ticket: 33115

DST#: 1

ATTN: Andy Werth

Test Start: 2008.09.18 @ 06:51:31

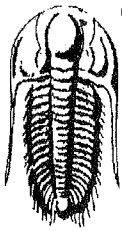
Tool Information

Drill Pipe:	Length: 3534.00 ft	Diameter: 3.80 inches	Volume: 49.57 bbl	Tool Weight: 2000.00 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: 45000.00 lb
			<u>Total Volume: 49.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3546.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	92.00 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			3526.00	
Shut In Tool	5.00			3531.00	
Hydraulic tool	5.00			3536.00	
Packer	5.00			3541.00	21.00 Bottom Of Top Packer
Packer	5.00			3546.00	
Stubb	1.00			3547.00	
Perforations	2.00			3549.00	
Change Over Sub	1.00			3550.00	
Recorder	0.00	8372	Inside	3550.00	
Recorder	0.00	8368	Outside	3550.00	
Drill Pipe	63.00			3613.00	
Change Over Sub	1.00			3614.00	
Bullnose	3.00			3617.00	71.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Werth Exploration Trust

Worcester SW # 1

1308 Schwaller Ave
Hays Ks 67601

16 7 22 Graham, Ks

Job Ticket: 33115

DST#: 1

ATTN: Andy Werth

Test Start: 2008.09.18 @ 06:51:31

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: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2045.00	SltlyOCMdyWtr 2%o 88%w 10%m	28.686

Total Length: 2045.00 ft Total Volume: 28.686 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

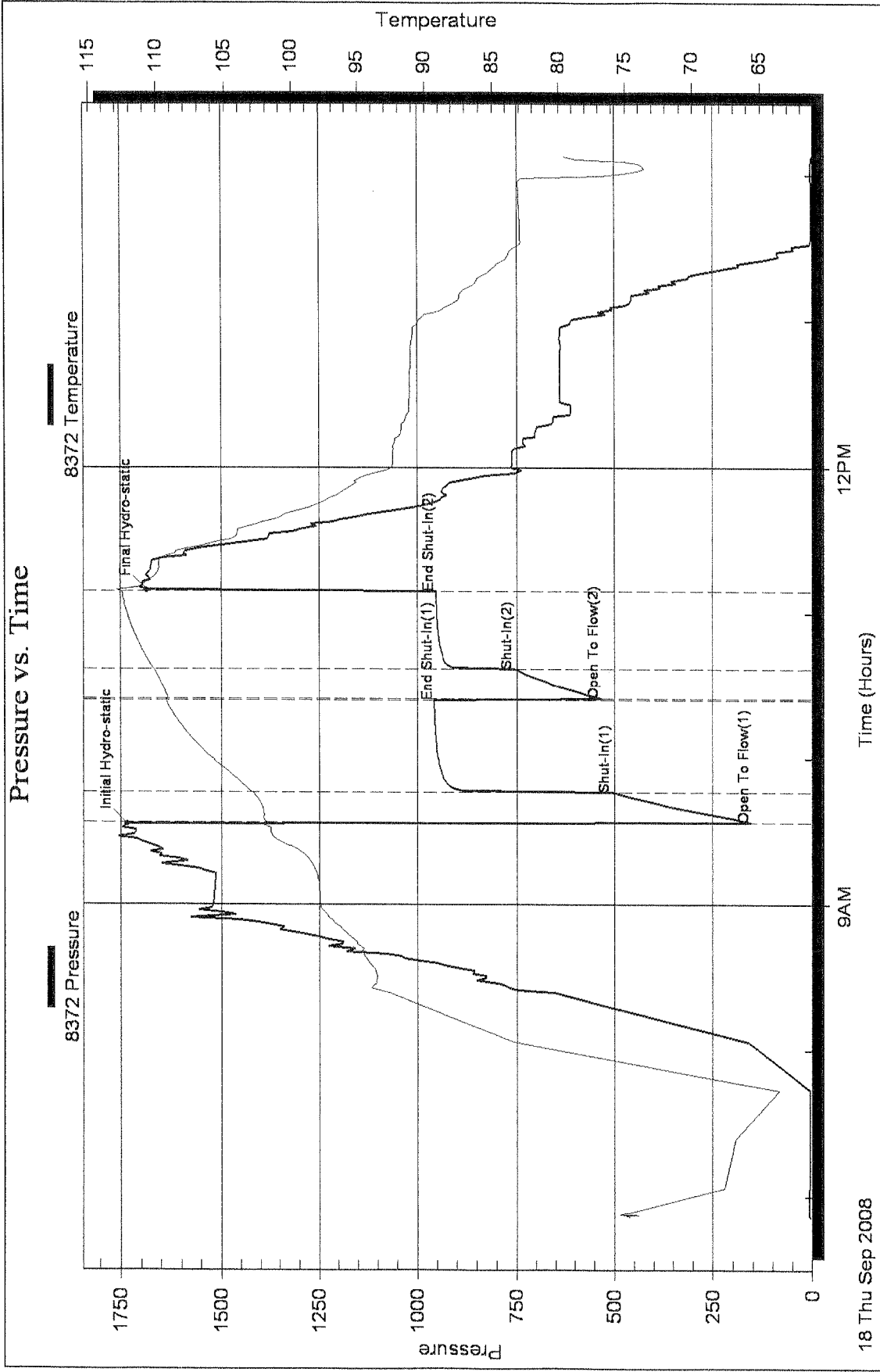
Serial #: 8372

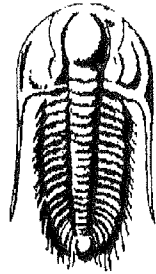
Inside

Werth Exploration Trust

16 7 22 Graham, Ks

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Werth Exploration Trust**

1308 Schwaller Ave
Hays Ks 67601

ATTN: Andy Werth

16 7 22 Graham, Ks

Worcester SW # 1

Start Date: 2008.09.18 @ 14:33:10

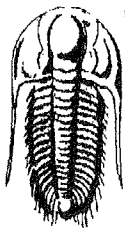
End Date: 2008.09.18 @ 22:00:40

Job Ticket #: 33116 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Werth Exploration Trust

1308 Schwaller Ave
Hays Ks 67601

ATTN: Andy Werth

Worcester SW # 1

16 7 22 Graham, Ks

Job Ticket: 33116

DST#: 2

Test Start: 2008.09.18 @ 14:33:10

GENERAL INFORMATION:

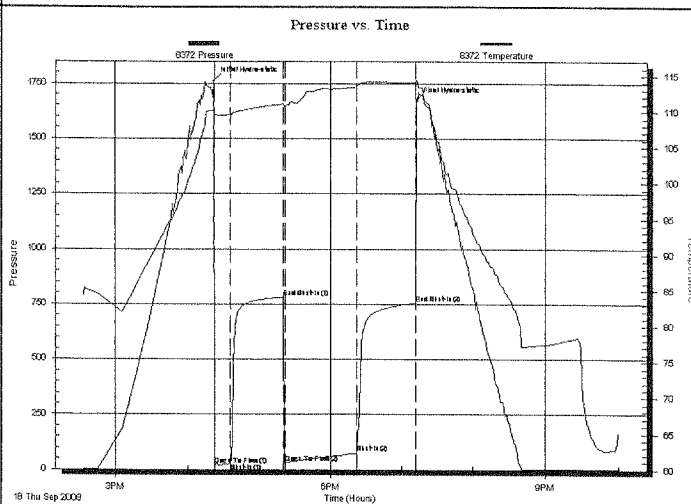
Formation: **E-F**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **16:22:10**
 Time Test Ended: **22:00:40**
 Interval: **3591.00 ft (KB) To 3617.00 ft (KB) (TVD)**
 Total Depth: **3617.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Dan Bangle**
 Unit No: **38**
 Reference Elevations: **ft (KB)**
2285.00 ft (CF)
 KB to GR/CF: **ft**

Serial #: 8372

Inside

Press@RunDepth: **76.31 psig @ 3594.00 ft (KB)**
 Start Date: **2008.09.18** End Date: **2008.09.18**
 Start Time: **14:33:11** End Time: **22:00:40**
 Capacity: **7000.00 psig**
 Last Calib.: **2008.09.18**
 Time On Btm: **2008.09.18 @ 16:21:40**
 Time Off Btm: **2008.09.18 @ 19:12:40**

TEST COMMENT: IF Weak building to 5"
 FF-Weak building to strong BOB in 35 min



PRESSURE SUMMARY

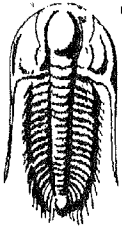
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.16	110.07	Initial Hydro-static
1	21.38	109.42	Open To Flow (1)
14	28.31	109.56	Shut-In(1)
59	781.12	111.05	End Shut-In(1)
60	30.60	110.79	Open To Flow (2)
120	76.31	113.49	Shut-In(2)
171	754.50	114.02	End Shut-In(2)
171	1671.93	114.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mdy Wtr	0.28
60.00	Sltly OCW 3%o 97%w	0.84
50.00	CGs yO 5%g 95%o	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Werth Exploration Trust

Worcester SW # 1

1308 Schwaller Ave
Hays Ks 67601

16 7 22 Graham, Ks

Job Ticket: 33116

DST#: 2

ATTN: Andy Werth

Test Start: 2008.09.18 @ 14:33:10

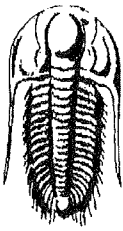
Tool Information

Drill Pipe:	Length: 3578.00 ft	Diameter: 3.80 inches	Volume: 50.19 bbl	Tool Weight: 2000.00 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: 40000.00 lb
			<u>Total Volume: 50.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3591.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	49.00 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			3571.00	
Shut In Tool	5.00			3576.00	
Hydraulic tool	5.00			3581.00	
Packer	5.00			3586.00	21.00 Bottom Of Top Packer
Packer	5.00			3591.00	
Stubb	1.00			3592.00	
Perforations	2.00			3594.00	
Recorder	0.00	8372	Inside	3594.00	
Recorder	0.00	8368	Outside	3594.00	
Perforations	22.00			3616.00	
Bullnose	3.00			3619.00	28.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Werth Exploration Trust

Worcester SW # 1

1308 Schwaller Ave
Hays Ks 67601

16 7 22 Graham, Ks

Job Ticket: 33116

DST#: 2

ATTN: Andy Werth

Test Start: 2008.09.18 @ 14:33:10

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:

ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	Mdy Wtr	0.281
60.00	Sltly OCW 3%o 97%w	0.842
50.00	CGs yO 5%g 95%o	0.701

Total Length: 130.00 ft

Total Volume: 1.824 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

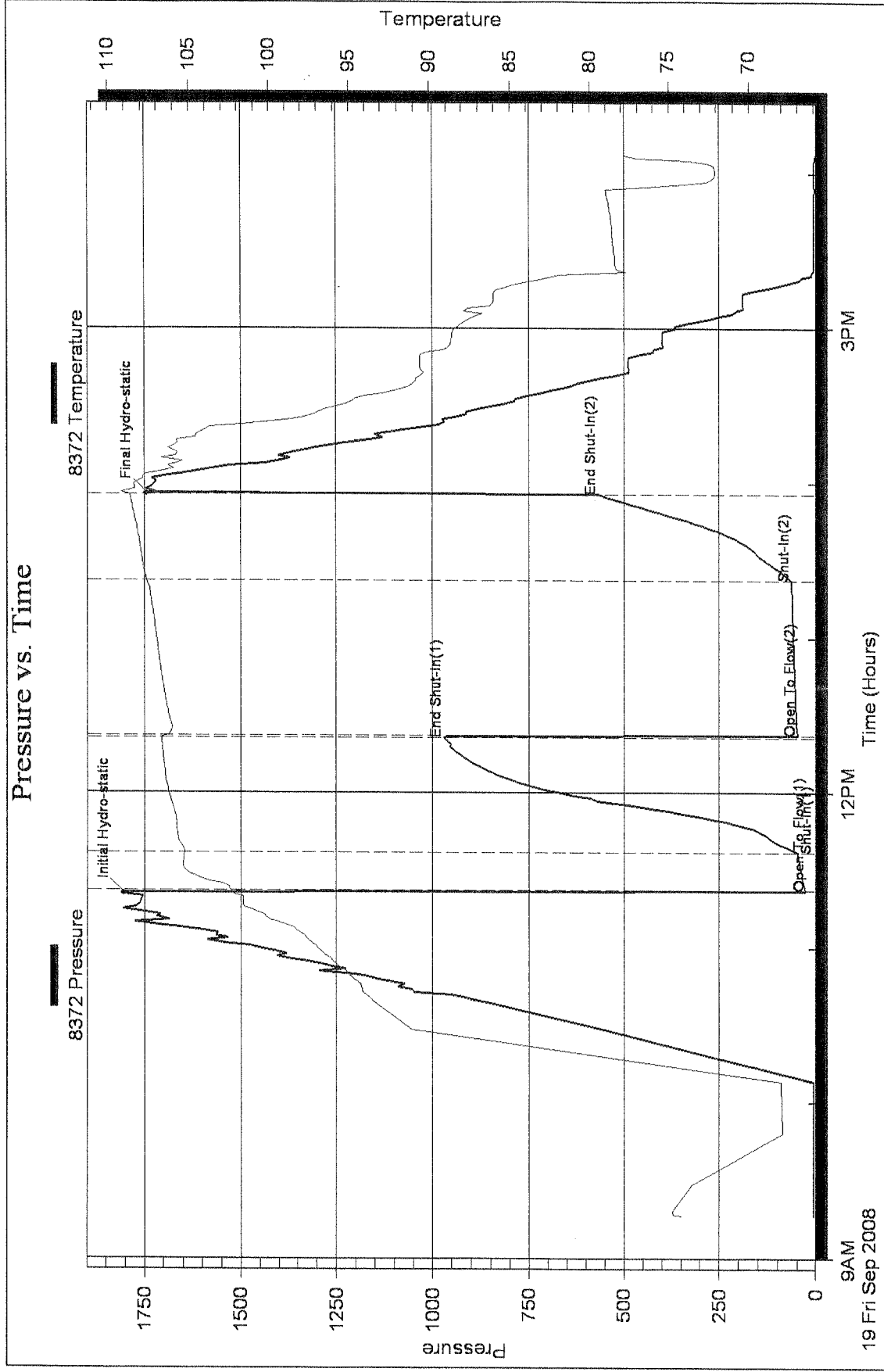
Serial #:

Laboratory Name:

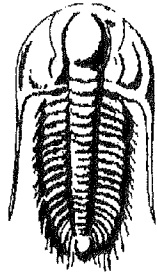
Laboratory Location:

Recovery Comments:

Pressure vs. Time



9AM
19 Fri Sep 2008
12PM
3PM



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Werth Exploration Trust**

1308 Schwaller Ave
Hays Ks 67601

ATTN: Andy Werth

16 7 22 Graham, Ks

Worcester SW # 1

Start Date: 2008.09.19 @ 09:16:11

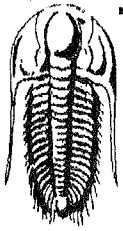
End Date: 2008.09.19 @ 16:07:11

Job Ticket #: 33117 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Werth Exploration Trust

Worcester SW # 1

1308 Schwaller Ave
Hays Ks 67601

16 7 22 Graham, Ks

Job Ticket: 33117

DST#: 3

ATTN: Andy Werth

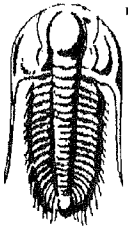
Test Start: 2008.09.19 @ 09:16:11

Tool Information

Drill Pipe:	Length: 3641.00 ft	Diameter: 3.80 inches	Volume: 51.07 bbl	Tool Weight: 2000.00 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: 50000.00 lb
			Total Volume: 51.07 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3651.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	88.00 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			3631.00	
Shut In Tool	5.00			3636.00	
Hydraulic tool	5.00			3641.00	
Packer	5.00			3646.00	21.00 Bottom Of Top Packer
Packer	5.00			3651.00	
Stubb	1.00			3652.00	
Perforations	2.00			3654.00	
Change Over Sub	1.00			3655.00	
Recorder	0.00	8372	Inside	3655.00	
Recorder	0.00	8368	Outside	3655.00	
Drill Pipe	31.00			3686.00	
Change Over Sub	1.00			3687.00	
Perforations	28.00			3715.00	
Bullnose	3.00			3718.00	67.00 Bottom Packers & Anchor
Total Tool Length:	88.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Werth Exploration Trust

Worcester SW # 1

1308 Schwaller Ave
Hays Ks 67601

16 7 22 Graham, Ks

ATTN: Andy Werth

Job Ticket: 33117

DST#: 3

Test Start: 2008.09.19 @ 09:16:11

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 28 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.97 in ³	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
62.00	MCHO 80%o 20%m	0.870
45.00	CGsyO 10%g 90%o	0.631
0.00	250 GIP	0.000

Total Length: 107.00 ft Total Volume: 1.501 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

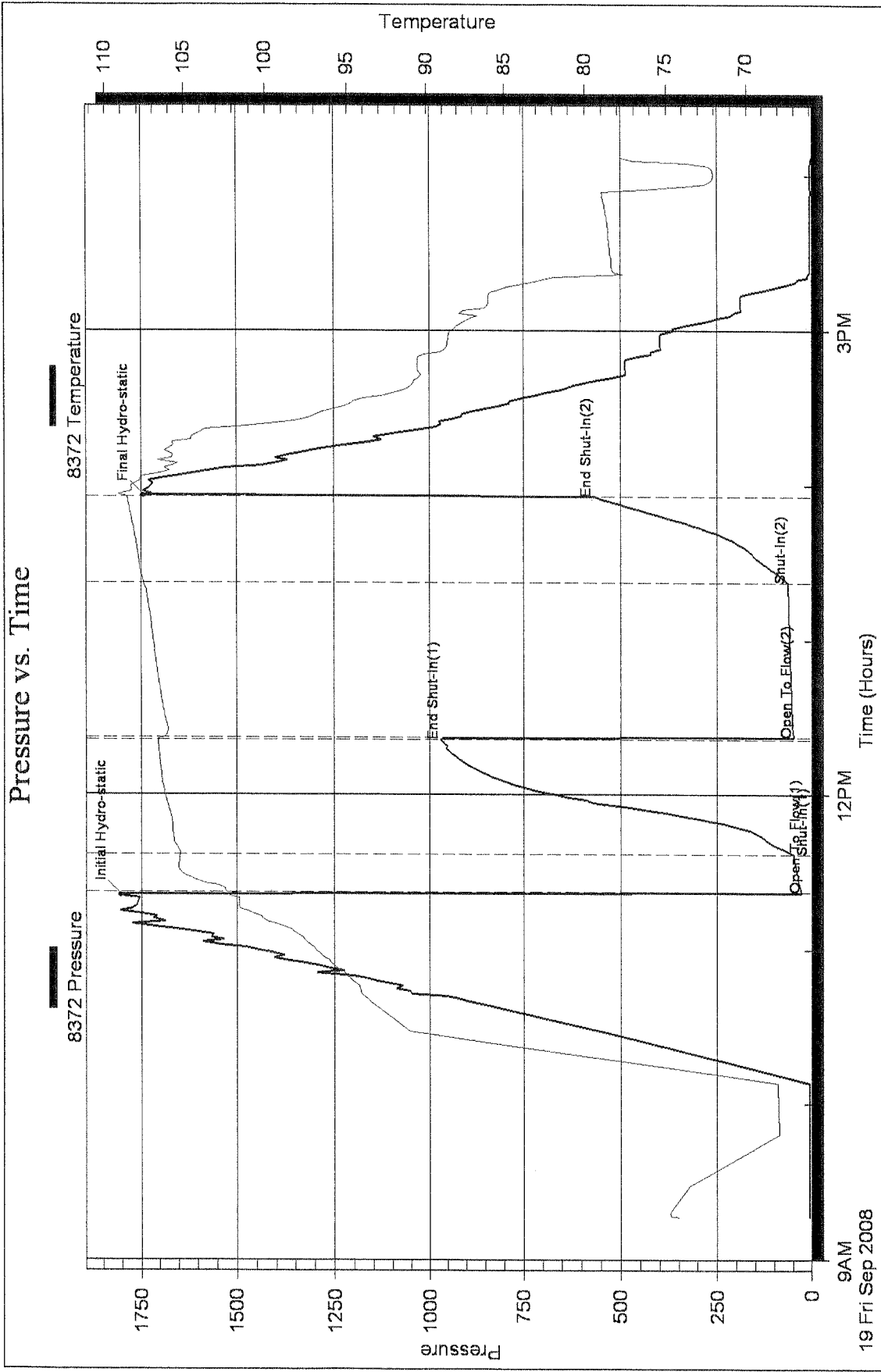
Inside

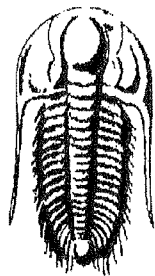
Werth Exploration Trust

16 7 22 Graham, Ks

DST Test Number: 3

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Werth Exploration Trust**

1308 Schwaller Ave
Hays Ks 67601

ATTN: Andy Werth

16 7 22 Graham, Ks

Worcester SW # 1

Start Date: 2008.09.20 @ 03:34:27

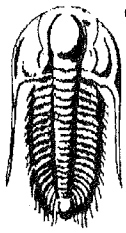
End Date: 2008.09.20 @ 09:18:27

Job Ticket #: 33118 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Werth Exploration Trust

1308 Schwaller Ave
Hays Ks 67601

ATTN: Andy Werth

Worcester SW # 1

16 7 22 Graham, Ks

Job Ticket: 33118

DST#: 4

Test Start: 2008.09.20 @ 03:34:27

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:10:57
 Time Test Ended: 09:18:27

Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 38

Interval: **3818.00 ft (KB) To 3832.00 ft (KB) (TVD)**
 Total Depth: 33832.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: ft (KB)
 2285.00 ft (CF)
 KB to GR/CF: ft

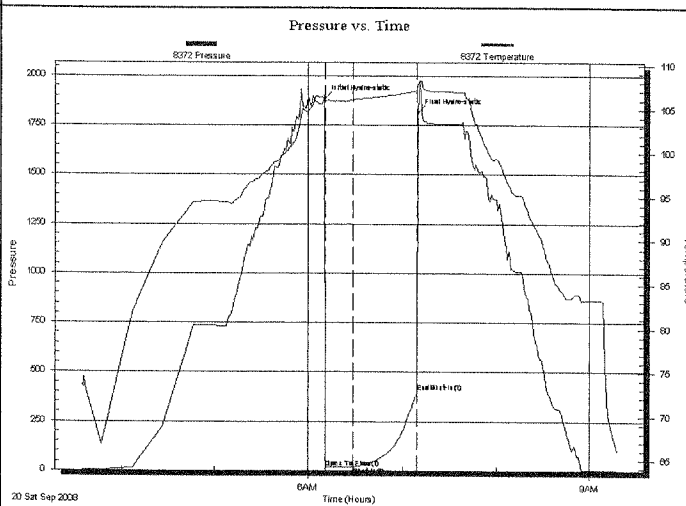
Serial #: 8372

Inside

Press@RunDepth: 17.80 psig @ 3819.00 ft (KB)
 Start Date: 2008.09.20 End Date: 2008.09.20
 Start Time: 03:34:28 End Time: 09:18:27

Capacity: 7000.00 psig
 Last Calib.: 2008.09.20
 Time On Btm: 2008.09.20 @ 06:10:27
 Time Off Btm: 2008.09.20 @ 07:09:57

TEST COMMENT: IF-Weak steady surface blow



PRESSURE SUMMARY

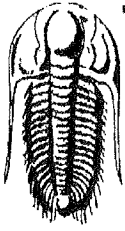
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.26	106.59	Initial Hydro-static
1	15.80	105.80	Open To Flow (1)
18	17.80	106.09	Shut-In(1)
59	398.14	107.13	End Shut-In(1)
60	1814.44	107.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w/ oil spots	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Werth Exploration Trust
1308 Schwaller Ave
Hays Ks 67601
ATTN: Andy Werth

Worcester SW # 1
16 7 22 Graham, Ks
Job Ticket: 33118 **DST#: 4**
Test Start: 2008.09.20 @ 03:34:27

Mud and Cushion Information

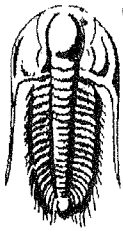
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud w/ oil spots	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Werth Exploration Trust

Worcester SW # 1

1308 Schwaller Ave
Hays Ks 67601

16 7 22 Graham, Ks

ATTN: Andy Werth

Job Ticket: 33118

DST#: 4

Test Start: 2008.09.20 @ 03:34:27

Tool Information

Drill Pipe:	Length: 3828.00 ft	Diameter: 3.80 inches	Volume: 53.70 bbl	Tool Weight: 2000.00 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: 40000.00 lb
			Total Volume: 53.70 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3818.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	35.00 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			3798.00	
Shut In Tool	5.00			3803.00	
Hydraulic tool	5.00			3808.00	
Packer	5.00			3813.00	21.00 Bottom Of Top Packer
Packer	5.00			3818.00	
Stubb	1.00			3819.00	
Recorder	0.00	8372	Inside	3819.00	
Recorder	0.00	8368	Outside	3819.00	
Perforations	10.00			3829.00	
Bullnose	3.00			3832.00	14.00 Bottom Packers & Anchor
Total Tool Length:	35.00				

