

DRILL STEM TEST REPORT

Prepared For: **Hupfer Operating Inc**

P O Box 216
Hays KS 67601

ATTN: Dennis Hupfer

5 16S 13W Barton KS

K.Bitter #1

Start Date: 2008.05.04 @ 22:33:38

End Date: 2008.05.05 @ 03:37:02

Job Ticket #: 32802 DST #: 1

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

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JUN 16 2008

CONSERVATION DIVISION
WICHITA, KS

Printed: 2008.05.06 @ 11:10:50 Page 1

Hupfer Operating Inc

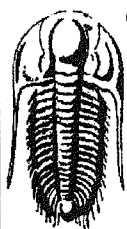
K.Bitter #1

5 16S 13W Barton KS

DST # 1

LKC

2008.05.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hupfer Operating Inc

P O Box 216
Hays KS 67601

ATTN: Dennis Hupfer

K.Bitter #1

5 16S 13W Barton KS

Job Ticket: 32802

DST#: 1

Test Start: 2008.05.04 @ 22:33:38

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:16:03

Time Test Ended: 03:37:02

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3127.00 ft (KB) To 3148.00 ft (KB) (TVD)**

Total Depth: 3148.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1927.00 ft (KB)

1919.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8365 Inside

Press@RunDepth: 29.47 psig @ 3128.01 ft (KB)

Start Date: 2008.05.04

End Date:

2008.05.05

Start Time: 22:33:38

End Time:

03:37:02

Capacity: 7000.00 psig

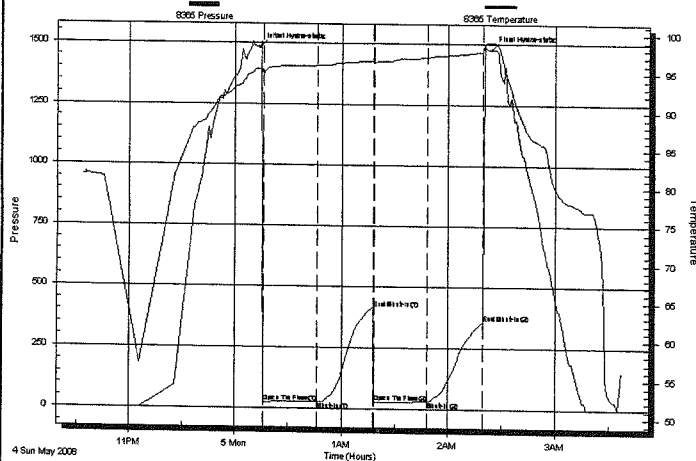
Last Calib.: 2008.05.05

Time On Btm: 2008.05.05 @ 00:13:33

Time Off Btm: 2008.05.05 @ 02:24:03

TEST COMMENT: IFP Wk bl thru-out 1/2 " to 1 " bl
FFP Wk bl thru-out 1/2 " bl
Times 30 30 30 30
slid tool 5 ' to bottom

Pressure vs. Time



PRESSURE SUMMARY

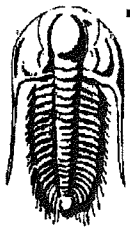
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1479.61	95.54	Initial Hydro-static
3	23.35	94.91	Open To Flow (1)
33	27.49	95.98	Shut-In (1)
64	409.95	96.59	End Shut-In (1)
65	27.70	96.45	Open To Flow (2)
95	29.47	97.02	Shut-In (2)
126	356.85	97.77	End Shut-In (2)
131	1473.49	99.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	SOCM 1%O 99%M	0.29

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hupfer Operating Inc

K.Bitter #1

P O Box 216
Hays KS 67601

5 16S 13W Barton KS

Job Ticket: 32802

DST#: 1

ATTN: Dennis Hupfer

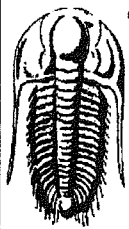
Test Start: 2008.05.04 @ 22:33:38

Tool Information

Drill Pipe:	Length: 3101.00 ft	Diameter: 3.80 inches	Volume: 43.50 bbl	Tool Weight: 2200.00 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: 43.65 bbl		Tool Chased 5.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3127.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.02 ft			
Tool Length:	42.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3107.00	
Shut In Tool	5.00			3112.00	
Hydraulic tool	5.00			3117.00	
Packer	5.00			3122.00	21.00 Bottom Of Top Packer
Packer	5.00			3127.00	
Stubb	1.00			3128.00	
Recorder	0.01	8365	Inside	3128.01	
Recorder	0.01	6625	Outside	3128.02	
Perforations	17.00			3145.02	
Bullnose	3.00			3148.02	21.02 Bottom Packers & Anchor
Total Tool Length:	42.02				



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FLUID SUMMARY

Hupfer Operating Inc

K.Bitter #1

P O Box 216
Hays KS 67601

5 16S 13W Barton KS

Job Ticket: 32802

DST#: 1

ATTN: Dennis Hupfer

Test Start: 2008.05.04 @ 22:33:38

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 8.80 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 2.00 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
40.00	SOCM 1%O 99%M	0.288

Total Length: 40.00 ft Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

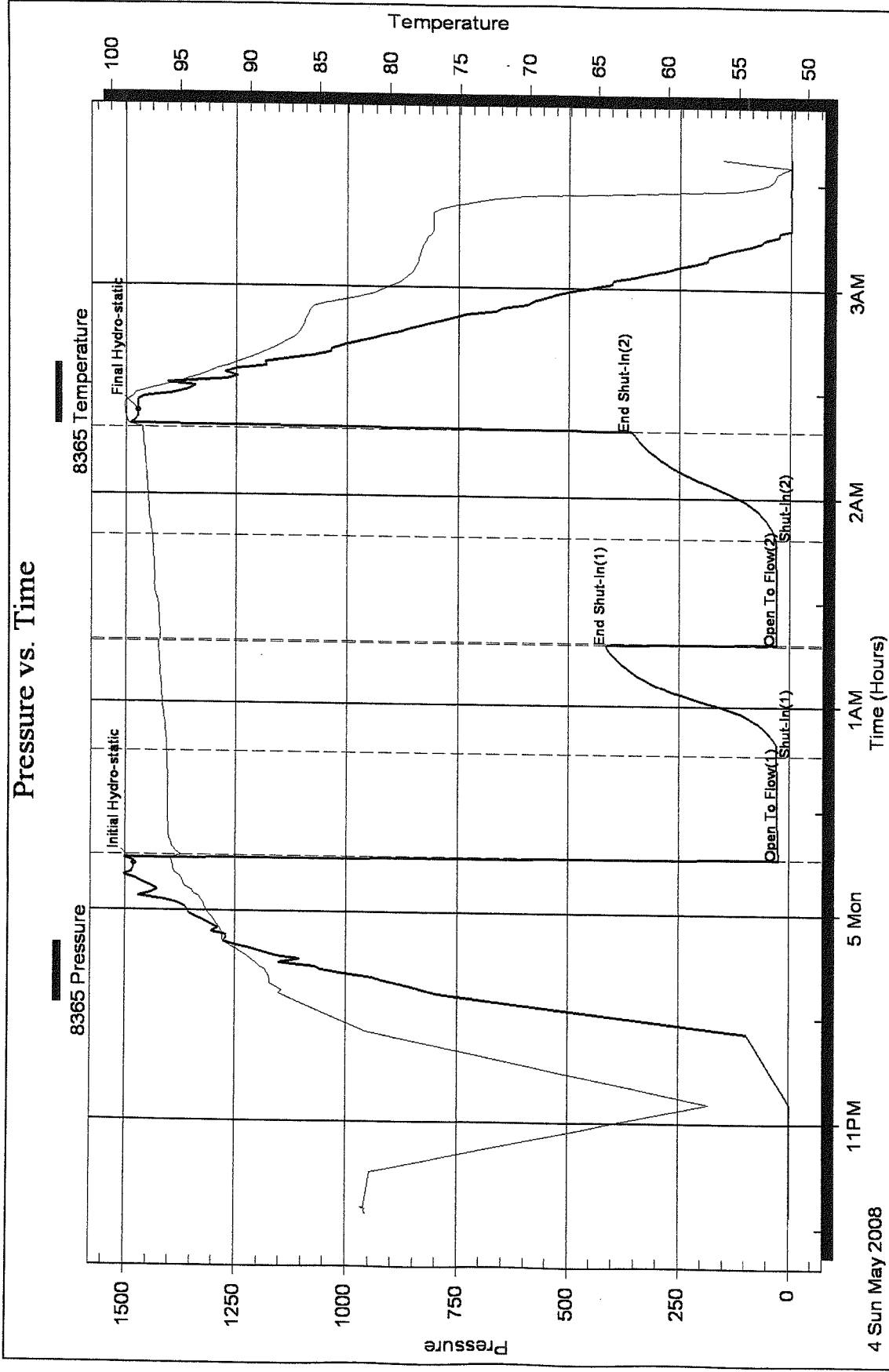
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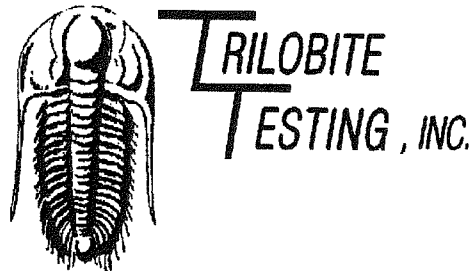
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Hupfer Operating Inc**

P O Box 216
Hays KS 67601

ATTN: Dennis Hupfer

5 16S 13W Barton KS

K.Bitter #1

Start Date: 2008.05.05 @ 20:04:41

End Date: 2008.05.06 @ 01:31:05

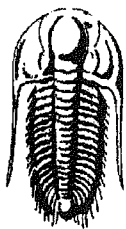
Job Ticket #: 32803 DST #: 2

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CONSERVATION DIVISION
WICHITA, KS

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DRILL STEM TEST REPORT

Hupfer Operating Inc

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Hays KS 67601

ATTN: Dennis Hupfer

K.Bitter #1

5 16S 13W Barton KS

Job Ticket: 32803

DST#: 2

Test Start: 2008.05.05 @ 20:04:41

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:27:06

Time Test Ended: 01:31:05

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3340.00 ft (KB) To 3360.00 ft (KB) (TVD)**

Total Depth: 3360.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1927.00 ft (KB)

1919.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8365 Inside

Press@RunDepth: 318.83 psig @ 3341.01 ft (KB)

Start Date: 2008.05.05

End Date:

2008.05.06

Start Time: 20:04:41

End Time:

01:31:05

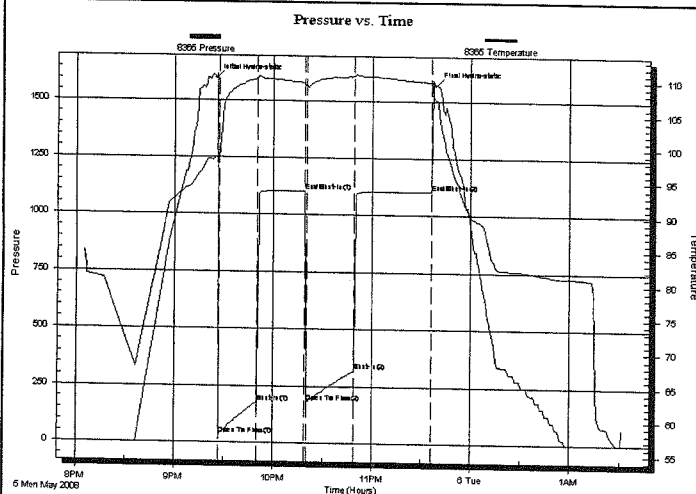
Capacity: 7000.00 psig

Last Calib.: 2008.05.06

Time On Btm: 2008.05.05 @ 21:25:06

Time Off Btm: 2008.05.05 @ 23:39:06

TEST COMMENT: IFP Strg bl in 4 min
FFP Strg bl in 5 min
ISIP 1/4 "bl bk
FSIP Surface bl bk 20 30 30 45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.00	98.56	Initial Hydro-static
2	35.53	98.30	Open To Flow (1)
25	178.72	110.25	Shut-In (1)
54	1103.14	109.76	End Shut-In (1)
55	180.83	109.18	Open To Flow (2)
84	318.83	110.68	Shut-In (2)
131	1103.19	109.88	End Shut-In (2)
134	1572.54	107.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water	3.09
60.00	O&GCW 15%G 10%O75W	0.84
120.00	MGWCO 20%G 53%O 25%W 2%M	1.68
210.00	MGWCO 15%G 79%O 20%W 4%M	2.95
70.00	CO	0.98
0.00	140' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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TOOL DIAGRAM

Hupfer Operating Inc

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5 16S 13W Barton KS

Job Ticket: 32803

DST#: 2

ATTN: Dennis Hupfer

Test Start: 2008.05.05 @ 20:04:41

Tool Information

Drill Pipe:	Length: 3319.00 ft	Diameter: 3.80 inches	Volume: 46.56 bbl	Tool Weight:	2200.00 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:	60000.00 lb
		Total Volume:	46.71 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3340.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.02 ft				
Tool Length:	41.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3320.00	
Shut In Tool	5.00			3325.00	
Hydraulic tool	5.00			3330.00	
Packer	5.00			3335.00	21.00 Bottom Of Top Packer
Packer	5.00			3340.00	
Stubb	1.00			3341.00	
Recorder	0.01	8365	Inside	3341.01	
Recorder	0.01	6625	Outside	3341.02	
Perforations	16.00			3357.02	
Bullnose	3.00			3360.02	20.02 Bottom Packers & Anchor
Total Tool Length:	41.02				



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Job Ticket: 32803

DST#: 2

ATTN: Dennis Hupfer

Test Start: 2008.05.05 @ 20:04:41

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

18000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Water	3.093
60.00	O&GCW 15%G 10%O75W	0.842
120.00	MGWCO 20%G 53%O 25%W 2%M	1.683
210.00	MGWCO 15%G 79%O 20%W 4%M	2.946
70.00	CO	0.982
0.00	140' GIP	0.000

Total Length: 700.00 ft

Total Volume: 9.546 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .38@69F

Pressure vs. Time

