

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

30-11s-17w Ellis-KS

Hadley "L" #4

Start Date: 2002.05.06 @ 04:39:12

End Date: 2002.05.06 @ 11:03:41

Job Ticket #: 15789

DST #: 1

RECEIVED
SEP 16 2002
KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

Hadley "L" #4

30-11s-17w Ellis-KS

Job Ticket: 15789

DST#: 1

Test Start: 2002.05.06 @ 04:39:12

GENERAL INFORMATION:

Formation: **Topeka**

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

Time Tool Opened: 06:26:41

Time Test Ended: 11:03:41

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3055.00 ft (KB) To 3075.00 ft (KB) (TVD)**

Total Depth: **3075.00 ft (KB) (TVD)**

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

Reference Elevations: **2097.00 ft (KB)**

2092.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 2357

Inside

Press@RunDepth: **37.43 psig @ 3056.01 ft (KB)**

Start Date: **2002.05.06**

End Date:

2002.05.06

Start Time: **04:39:12**

End Time:

11:03:41

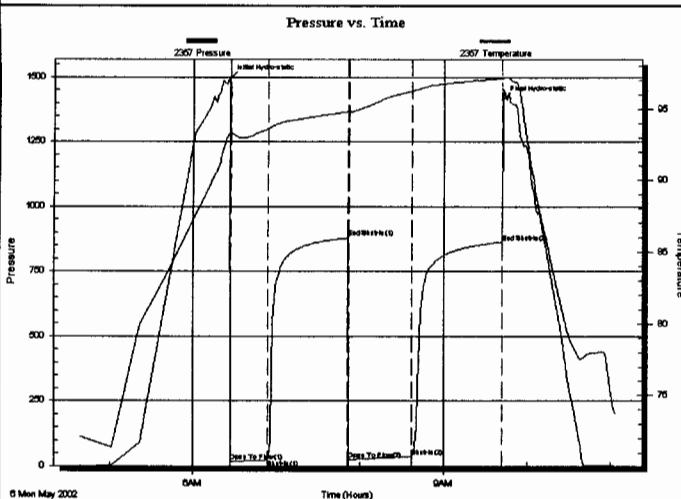
Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2002.05.06 @ 06:26:11**

Time Off Btm: **2002.05.06 @ 09:42:11**

TEST COMMENT: IF-Weak building to 1/2"
FF-Weak steady surface blow
Times-30-60-45-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1496.58	93.31	Initial Hydro-static
1	17.03	93.32	Open To Flow (1)
27	23.98	93.62	Shut-in(1)
85	879.22	94.83	End Shut-in(1)
86	25.10	94.83	Open To Flow (2)
131	37.43	96.24	Shut-in(2)
196	863.48	97.12	End Shut-in(2)
196	1413.71	97.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Muddy water Rw .65 @ 80 = 8500	0.22

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

Hadley "L" #4

30-11s-17w Ellis-KS

Job Ticket: 15789

DST#: 1

Test Start: 2002.05.06 @ 04:39:12

Tool Information

Drill Pipe:	Length: 2898.00 ft	Diameter: 3.80 inches	Volume: 40.65 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 142.00 ft	Diameter: 2.25 inches	Volume: 0.70 bbl	Weight to Pull Loose: 62000.00 lb
			Total Volume: 41.35 bbl	Tool Chased 0.01 ft
Drill Pipe Above KB:	6.01 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3055.00 ft			Final 58000.00 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:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3035.00		
S.I. Tool	5.00			3040.00		
HMV	5.00			3045.00		
Packer	5.00			3050.00	21.00	Bottom Of Top Packer
Packer	5.00			3055.00		
Stubb	1.00			3056.00		
Recorder	0.01	2357	Inside	3056.01		
Perforations	16.00			3072.01		
Recorder	0.01	13254	Outside	3072.02		
Bullnose	3.00			3075.02	20.02	Bottom Packers & Anchor
Total Tool Length:		41.02				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15789

DST#: 1

ATTN: Scott Robinson

Test Start: 2002.05.06 @ 04:39:12

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:

35000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Muddy water Rw .65 @ 80 = 8500	0.221

Total Length: 45.00 ft

Total Volume: 0.221 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

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15789

DST#: 1

ATTN: Scott Robinson

Test Start: 2002.05.06 @ 04:39:12

Tool Information

Drill Pipe:	Length: 2898.00 ft	Diameter: 3.80 inches	Volume: 40.65 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 142.00 ft	Diameter: 2.25 inches	Volume: 0.70 bbl	Weight to Pull Loose: 62000.00 lb
		Total Volume:	41.35 bbl	Tool Chased 0.01 ft
Drill Pipe Above KB:	6.01 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3055.00 ft			Final 58000.00 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:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3035.00		
S.I. Tool	5.00			3040.00		
HMV	5.00			3045.00		
Packer	5.00			3050.00	21.00	Bottom Of Top Packer
Packer	5.00			3055.00		
Stubb	1.00			3056.00		
Recorder	0.01	2357	Inside	3056.01		
Perforations	16.00			3072.01		
Recorder	0.01	13254	Outside	3072.02		
Bullnose	3.00			3075.02	20.02	Bottom Packers & Anchor
Total Tool Length:	41.02					



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15789

DST#: 1

ATTN: Scott Robinson

Test Start: 2002.05.06 @ 04:39:12

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:

35000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Muddy water Rw .65 @ 80 = 8500	0.221

Total Length: 45.00 ft

Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

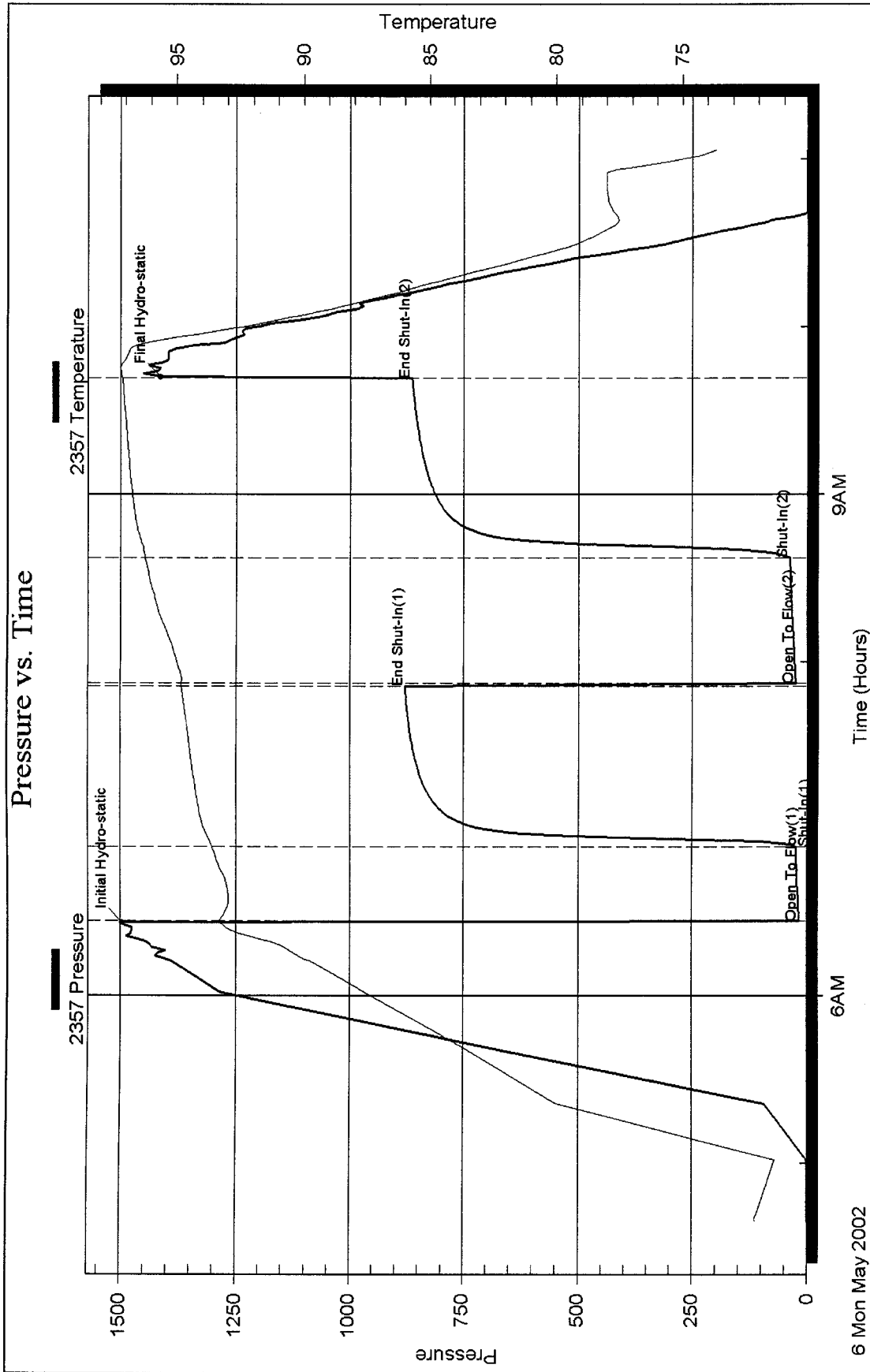
Serial #: 2357

Inside

Murfin Drilling Co Inc

30-11s-17w Ells-KS

DST Test Number: 1

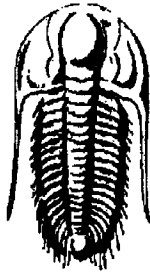


Trilobite Testing, Inc

Ref. No: 15789

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Printed: 2002.05.13 @ 13:31:42 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

30-11s-17w Ellis-KS

Hadley "L" #4

Start Date: 2002.05.07 @ 07:29:33

End Date: 2002.05.07 @ 14:47:33

Job Ticket #: 15790

DST #: 2

SEP 16 2002

KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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TRILOBITE
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DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

Hadley "L" #4

30-11s-17w Ellis-KS

Job Ticket: 15790

DST#: 2

Test Start: 2002.05.07 @ 07:29:33

GENERAL INFORMATION:

Formation: **Toronto**

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

Time Tool Opened: 09:08:03

Time Test Ended: 14:47:33

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3236.00 ft (KB) To 3300.00 ft (KB) (TVD)**

Total Depth: **3300.00 ft (KB) (TVD)**

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

Reference Elevations: **2097.00 ft (KB)**

2092.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: **2357**

Inside

Press@RunDepth: **210.69 psig @ 3243.01 ft (KB)**

Start Date: **2002.05.07**

End Date:

2002.05.07

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Start Time: **07:29:34**

End Time:

14:47:33

Time On Btm: **2002.05.07 @ 09:06:33**

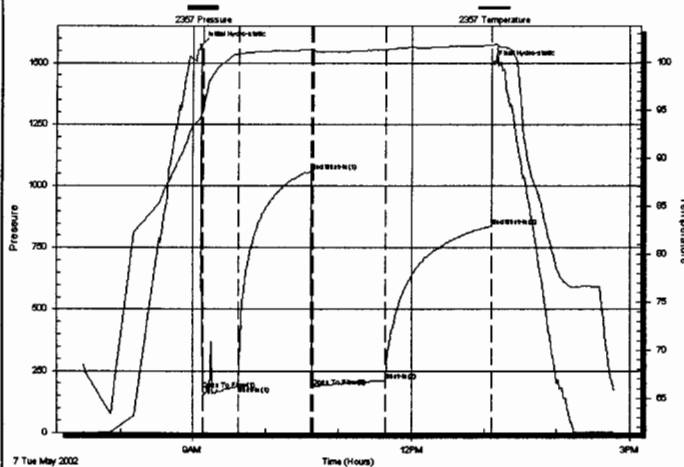
Time Off Btm: **2002.05.07 @ 13:06:33**

TEST COMMENT: IF-Strong BOB in 15 sec

FF-Weak building to 3"

Times-30-60-60-90

Pressure vs. Time



PRESSURE SUMMARY

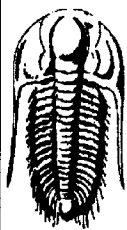
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1571.12	94.37	Initial Hydro-static
2	173.40	95.00	Open To Flow (1)
32	190.68	100.92	Shut-In(1)
91	1058.24	101.31	End Shut-In(1)
92	187.76	101.27	Open To Flow (2)
152	210.69	101.36	Shut-In(2)
240	838.38	101.82	End Shut-In(2)
240	1493.54	101.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Silly OCM 3%o 97% m	0.30
62.00	V Silty OCM 1%o 99% m	0.30
124.00	Mud w/ oil scum	1.58
186.00	DM	2.61

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15790

DST#: 2

ATTN: Scott Robinson

Test Start: 2002.05.07 @ 07:29:33

Tool Information

Drill Pipe:	Length: 3085.00 ft	Diameter: 3.80 inches	Volume: 43.27 bbl	Tool Weight:	1800.00 lb	
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb	
Drill Collar:	Length: 142.00 ft	Diameter: 2.25 inches	Volume: 0.70 bbl	Weight to Pull Loose:	65000.00 lb	
			Total Volume:	43.97 bbl	Tool Chased	0.01 ft
Drill Pipe Above KB:	12.01 ft			String Weight: Initial	60000.00 lb	
Depth to Top Packer:	3236.00 ft			Final	62000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	64.02 ft					
Tool Length:	85.02 ft					
Number of Packers:	2	Diameter:	6.75 inches			

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3216.00		
S.I. Tool	5.00			3221.00		
HMV	5.00			3226.00		
Packer	5.00			3231.00	21.00	Bottom Of Top Packer
Packer	5.00			3236.00		
Stubb	1.00			3237.00		
Perforations	5.00			3242.00		
C.O. Sub	1.00			3243.00		
Recorder	0.01	2357	Inside	3243.01		
Blank Spacing	31.00			3274.01		
C.O. Sub	1.00			3275.01		
Recorder	0.01	13254	Outside	3275.02		
Perforations	22.00			3297.02		
Bullnose	3.00			3300.02	64.02	Bottom Packers & Anchor

Total Tool Length: 85.02

79724



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15790

DST#: 2

ATTN: Scott Robinson

Test Start: 2002.05.07 @ 07:29:33

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Silly OCM 3%o 97%m	0.305
62.00	V Silly OCM 1%o 99%m	0.305
124.00	Mud w / oil scum	1.575
186.00	DM	2.609

Total Length: 434.00 ft

Total Volume: 4.794 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 2

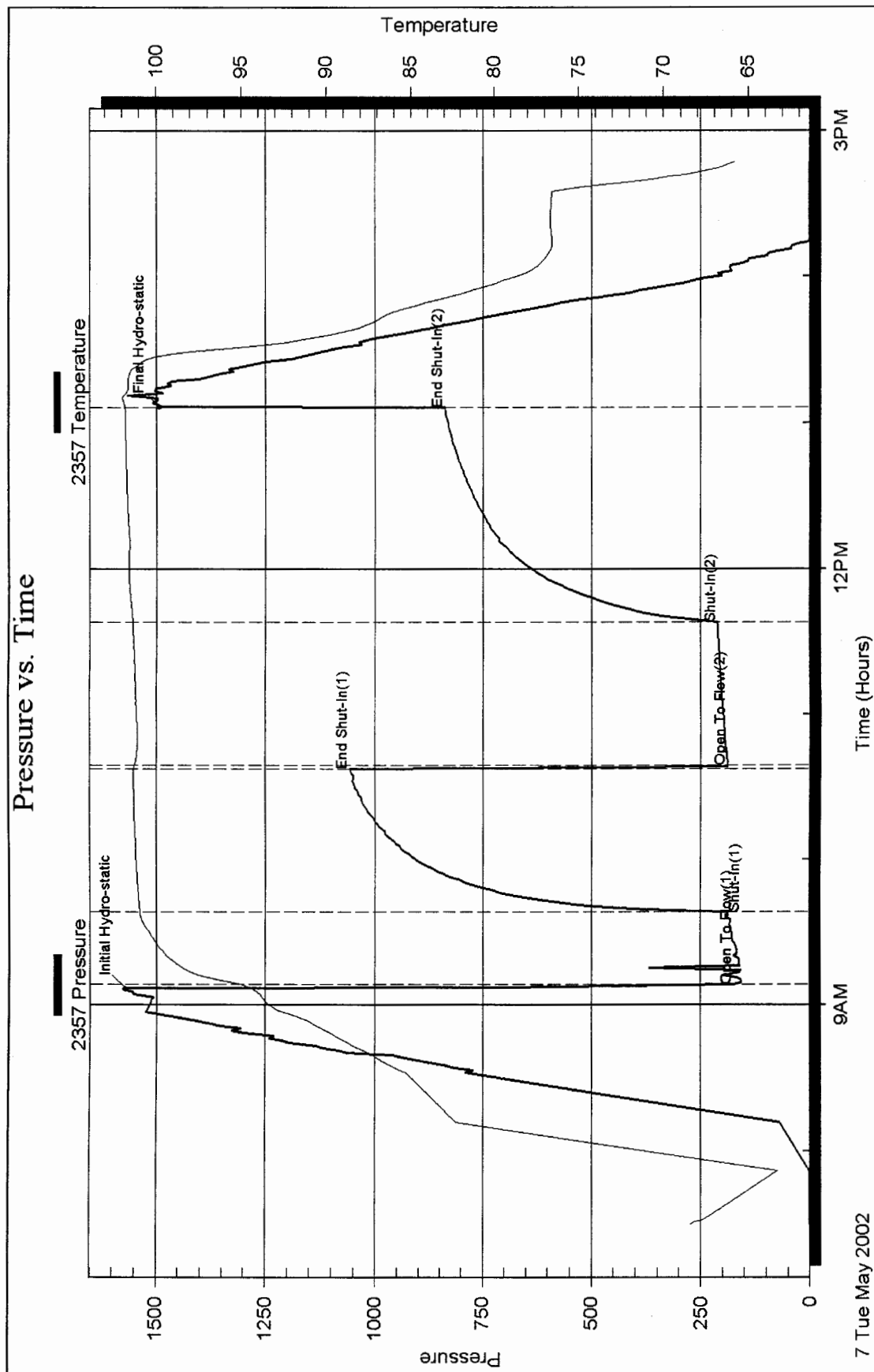
30-11s-17w Ellis-KS

Murfin Drilling Co Inc

Inside

Serial #: 2357

Pressure vs. Time

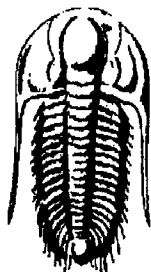


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KCC WICHITA

Ref. No: 15790

Trilobite Testing, Inc

Printed: 2002.05.13 @ 13:34:03 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

30-11s-17w Ellis-KS

Hadley "L" #4

Start Date: 2002.05.08 @ 00:48:07

End Date: 2002.05.08 @ 08:13:37

Job Ticket #: 15791

DST #: 3

SEP 16 2002

KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

Hadley "L" #4

30-11s-17w Ellis-KS

Job Ticket: 15791

DST#: 3

Test Start: 2002.05.08 @ 00:48:07

GENERAL INFORMATION:

Formation: **A-B-D-E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:07

Time Test Ended: 08:13:37

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3311.00 ft (KB) To 3390.00 ft (KB) (TVD)

Total Depth: 3390.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2097.00 ft (KB)

2092.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2357

Inside

Press@RunDepth: 40.98 psig @ 3315.01 ft (KB)

Start Date: 2002.05.08

End Date:

2002.05.08

Start Time: 00:48:08

End Time:

08:13:37

Capacity: 7000.00 psig

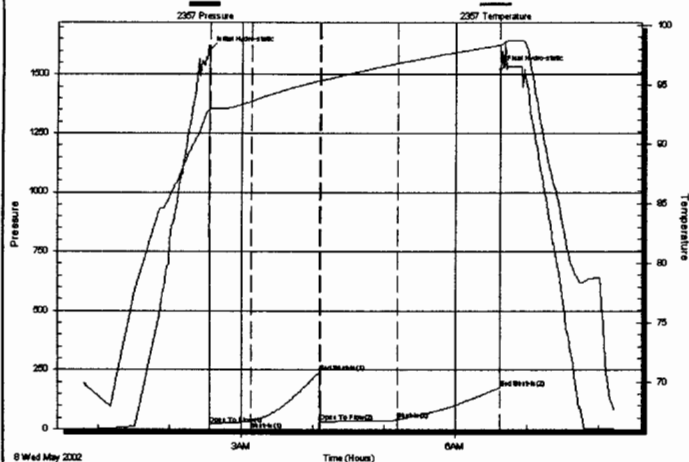
Last Calib.: 1899.12.30

Time On Btm: 2002.05.08 @ 02:32:37

Time Off Btm: 2002.05.08 @ 06:37:37

TEST COMMENT: IF-Weak-building to 1/2"
FF-Weak steady surface blow
Times-30-60-60-90

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.53	92.92	Initial Hydro-static
1	19.23	92.96	Open To Flow (1)
36	30.85	93.57	Shut-In(1)
93	238.55	95.36	End Shut-In(1)
94	30.55	95.39	Open To Flow (2)
158	40.98	96.75	Shut-In(2)
245	176.02	98.30	End Shut-In(2)
245	1521.97	98.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 20%o 80%r	0.15

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15791

DST#: 3

ATTN: Scott Robinson

Test Start: 2002.05.08 @ 00:48:07

Tool Information

Drill Pipe:	Length: 3147.00 ft	Diameter: 3.80 inches	Volume: 44.14 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 142.00 ft	Diameter: 2.25 inches	Volume: 0.70 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 44.84 bbl		Tool Chased 0.01 ft
Drill Pipe Above KB:	1.01 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3311.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.02 ft			
Tool Length:	102.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			3289.00		
S.I. Tool	5.00			3294.00		
HMV	5.00			3299.00		
Safety Joint	2.00			3301.00		
Packer	5.00			3306.00	23.00	Bottom Of Top Packer
Packer	5.00			3311.00		
Stubb	1.00			3312.00		
Perforations	2.00			3314.00		
C.O. Sub	1.00			3315.00		
Recorder	0.01	2357	Inside	3315.01		
Blank Spacing	62.00			3377.01		
C.O. Sub	1.00			3378.01		
Recorder	0.01	13254	Outside	3378.02		
Perforations	9.00			3387.02		
Bullnose	3.00			3390.02	79.02	Bottom Packers & Anchor

Total Tool Length: 102.02



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15791

DST#: 3

ATTN: Scott Robinson

Test Start: 2002.05.08 @ 00:48:07

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 20%o 80%m	0.147

Total Length: 30.00 ft

Total Volume: 0.147 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 3

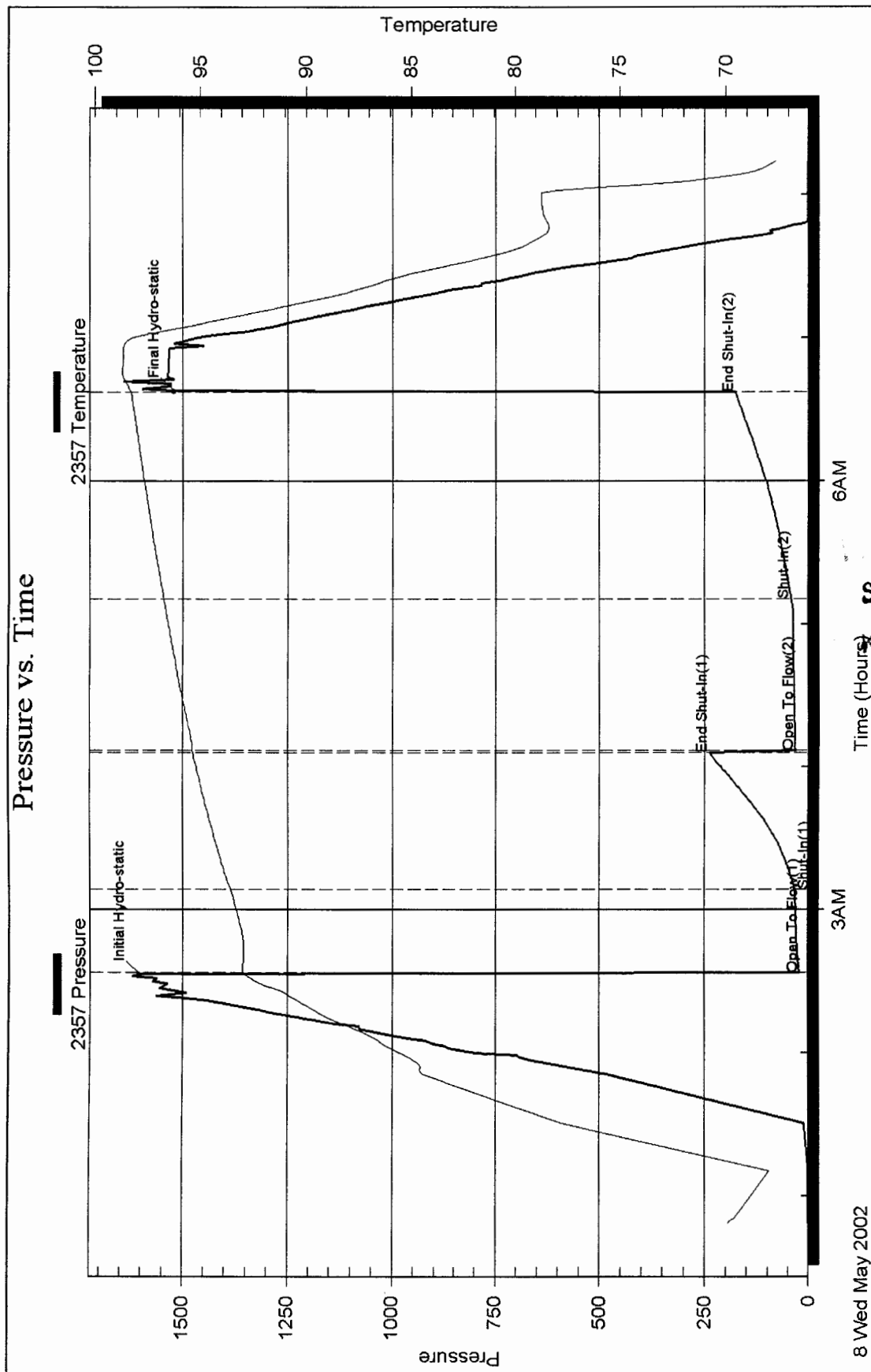
30-11s-17w Ellis-KS

Murfin Drilling Co Inc

Inside

Serial #: 2357

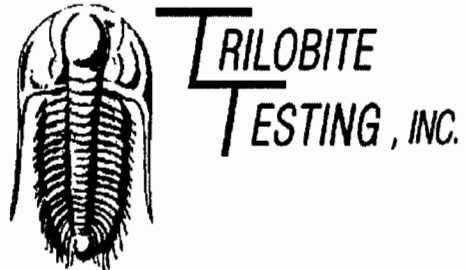
Pressure vs. Time



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KCC WICHITA

Ref. No: 15791

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

30-11s-17w Ellis-KS

Hadley "L" #4

Start Date: 2002.05.08 @ 15:07:33

End Date: 2002.05.08 @ 21:16:33

Job Ticket #: 15792 DST #: 4

SEP 16 2002

KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

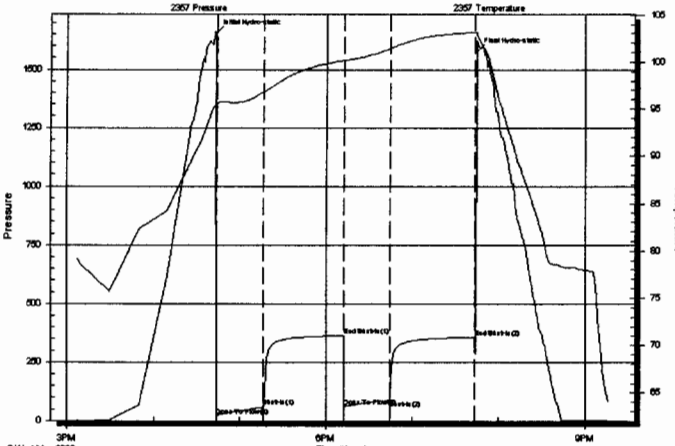
79724

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		
Murfin Drilling Co Inc 250 N Water Wichita, KS 67202 ATTN: Scott Robinson	Hadley "L" #4 30-11s-17w Ellis-KS Job Ticket: 15792 DST#: 4 Test Start: 2002.05.08 @ 15:07:33		

GENERAL INFORMATION:			
Formation:	"G" LKC		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole
Time Tool Opened:	16:43:33		Tester: Dan Bangle
Time Test Ended:	21:16:33		Unit No: 21
Interval:	3384.00 ft (KB) To 3422.00 ft (KB) (TVD)		Reference Elevations: 2097.00 ft (KB)
Total Depth:	3422.00 ft (KB) (TVD)		2092.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft

Serial #: 2357 Inside			
Press@RunDepth:	88.12 psig @ 3389.01 ft (KB)	Capacity:	7000.00 psig
Start Date:	2002.05.08 End Date:	2002.05.08	Last Calib.: 1899.12.30
Start Time:	15:07:34 End Time:	21:16:33	Time On Btm: 2002.05.08 @ 16:43:03
			Time Off Btm: 2002.05.08 @ 19:44:33

TEST COMMENT: IF-Weak building to 3"
 FF-No blow
 Times-30-60-30-60

Pressure vs. Time  0 Wed May 2002 Time (Hours)	PRESSURE SUMMARY <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.9em;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1654.93</td><td>95.44</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>19.29</td><td>95.53</td><td>Open To Flow (1)</td></tr> <tr><td>34</td><td>58.50</td><td>96.84</td><td>Shut-In(1)</td></tr> <tr><td>89</td><td>363.98</td><td>100.17</td><td>End Shut-In(1)</td></tr> <tr><td>90</td><td>61.29</td><td>100.18</td><td>Open To Flow (2)</td></tr> <tr><td>121</td><td>88.12</td><td>101.41</td><td>Shut-In(2)</td></tr> <tr><td>181</td><td>356.75</td><td>103.16</td><td>End Shut-In(2)</td></tr> <tr><td>182</td><td>1575.15</td><td>103.14</td><td>Final Hydro-static</td></tr> </tbody> </table>	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1654.93	95.44	Initial Hydro-static	1	19.29	95.53	Open To Flow (1)	34	58.50	96.84	Shut-In(1)	89	363.98	100.17	End Shut-In(1)	90	61.29	100.18	Open To Flow (2)	121	88.12	101.41	Shut-In(2)	181	356.75	103.16	End Shut-In(2)	182	1575.15	103.14	Final Hydro-static
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																																		
0	1654.93	95.44	Initial Hydro-static																																		
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89	363.98	100.17	End Shut-In(1)																																		
90	61.29	100.18	Open To Flow (2)																																		
121	88.12	101.41	Shut-In(2)																																		
181	356.75	103.16	End Shut-In(2)																																		
182	1575.15	103.14	Final Hydro-static																																		

Recovery <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.9em;"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>135.00</td> <td>Muddy water Rw .15 @ 80 = 48000ppm</td> <td>0.66</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Length (ft)	Description	Volume (bbl)	135.00	Muddy water Rw .15 @ 80 = 48000ppm	0.66																Gas Rates <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.9em;"> <thead> <tr> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)															
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135.00	Muddy water Rw .15 @ 80 = 48000ppm	0.66																																						
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																						



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15792

DST#: 4

ATTN: Scott Robinson

Test Start: 2002.05.08 @ 15:07:33

Tool Information

Drill Pipe:	Length: 3243.00 ft	Diameter: 3.80 inches	Volume: 45.49 bbl	Tool Weight: 1600.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 142.00 ft	Diameter: 2.25 inches	Volume: 0.70 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 46.19 bbl		Tool Chased 0.01 ft
Drill Pipe Above KB:	24.01 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3384.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.02 ft			
Tool Length:	61.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3362.00	
S.I. Tool	5.00			3367.00	
HMV	5.00			3372.00	
Safety Joint	2.00			3374.00	
Packer	5.00			3379.00	23.00 Bottom Of Top Packer
Packer	5.00			3384.00	
Stubb	1.00			3385.00	
Perforations	4.00			3389.00	
Recorder	0.01	2357	Inside	3389.01	
Perforations	30.00			3419.01	
Recorder	0.01	13254	Outside	3419.02	
Bullnose	3.00			3422.02	38.02 Bottom Packers & Anchor

Total Tool Length: 61.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15792

DST#: 4

ATTN: Scott Robinson

Test Start: 2002.05.08 @ 15:07:33

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:

48000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
135.00	Mudy water Rw .15 @ 80 = 48000ppm	0.664

Total Length: 135.00 ft

Total Volume: 0.664 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 4

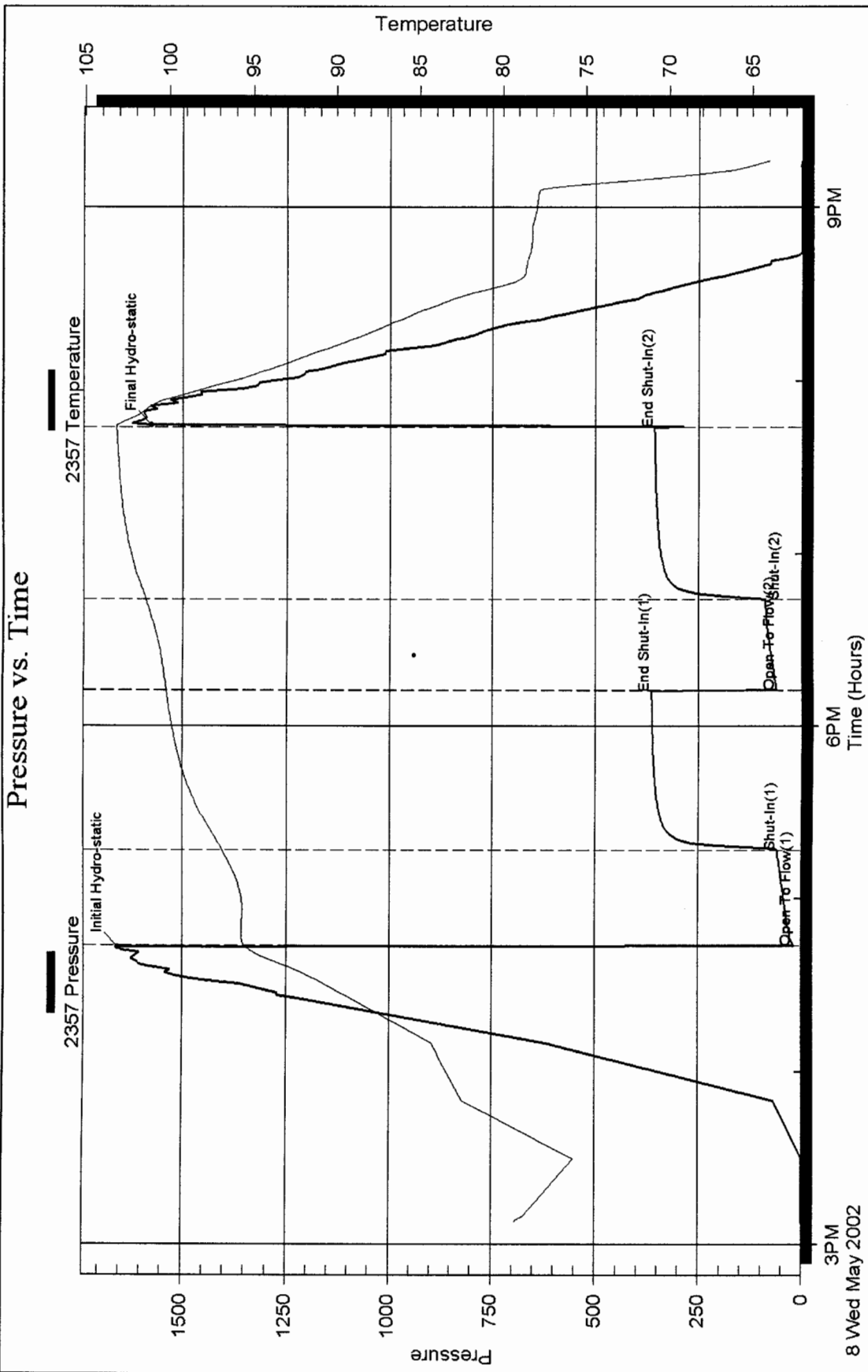
30-11s-17w Ellis-KS

Murfin Drilling Co Inc

Inside

Serial #: 2357

Pressure vs. Time

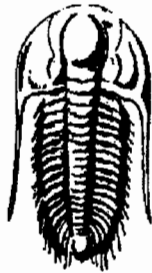


SEP 1, 6 2002
KCC WICHITA

Ref. No: 15792

Trilobite Testing, Inc

Printed: 2002.05.13 @ 13:39:04 Page 5



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

30-11s-17w Ellis-KS

Hadley "L" #4

Start Date: 2002.05.09 @ 09:49:04

End Date: 2002.05.09 @ 17:25:04

Job Ticket #: 15793 DST #: 5

SEP 16 2002
KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

79724



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

Hadley "L" #4

30-11s-17w Ellis-KS

Job Ticket: 15793

DST#: 5

Test Start: 2002.05.09 @ 09:49:04

GENERAL INFORMATION:

Formation: H-I-J-K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:38:04

Time Test Ended: 17:25:04

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3427.00 ft (KB) To 3546.00 ft (KB) (TVD)

Total Depth: 3546.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2097.00 ft (KB)

2092.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2357

Inside

Press@RunDepth: 105.19 psig @ 3434.01 ft (KB)

Start Date: 2002.05.09

End Date:

2002.05.09

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 09:49:05

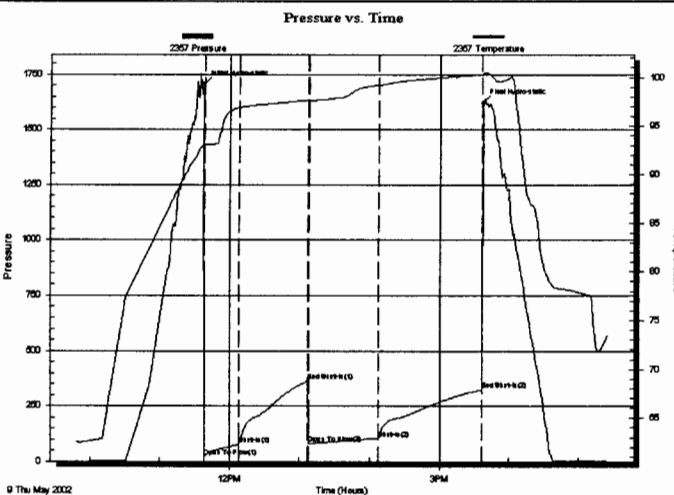
End Time:

17:25:04

Time On Btm: 2002.05.09 @ 11:37:34

Time Off Btm: 2002.05.09 @ 15:37:04

TEST COMMENT: IF-Weak building to 8" fair blow
FF-Weak building to 8" fair blow
Times-30-60-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.74	93.05	Initial Hydro-static
1	22.84	93.09	Open To Flow (1)
31	77.45	96.92	Shut-In (1)
89	361.74	97.65	End Shut-In (1)
90	81.43	97.65	Open To Flow (2)
150	105.19	99.19	Shut-In (2)
239	322.80	100.29	End Shut-In (2)
240	1620.27	100.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	M&GCO 20%g 50%o 30%m	1.32
35.00	O&GCM 10%g 30%o 60%m	0.49
221.00	GIP	3.10

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15793

DST#: 5

ATTN: Scott Robinson

Test Start: 2002.05.09 @ 09:49:04

Tool Information

Drill Pipe:	Length: 3275.00 ft	Diameter: 3.80 inches	Volume: 45.94 bbl	Tool Weight:	1200.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 142.00 ft	Diameter: 2.25 inches	Volume: 0.70 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	46.64 bbl	Tool Chased	0.01 ft
Drill Pipe Above KB:	13.01 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3427.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	119.02 ft				
Tool Length:	142.02 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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C.O. Sub	1.00			3405.00	
S.I. Tool	5.00			3410.00	
HMV	5.00			3415.00	
Safety Joint	2.00			3417.00	
Packer	5.00			3422.00	23.00 Bottom Of Top Packer
Packer	5.00			3427.00	
Stubb	1.00			3428.00	
Perforations	5.00			3433.00	
C.O. Sub	1.00			3434.00	
Recorder	0.01	2357	Inside	3434.01	
Blank Spacing	93.00			3527.01	
C.O. Sub	1.00			3528.01	
Recorder	0.01	13254	Outside	3528.02	
Perforations	15.00			3543.02	
Bullnose	3.00			3546.02	119.02 Bottom Packers & Anchor

Total Tool Length: 142.02

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79724



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15793

DST#: 5

ATTN: Scott Robinson

Test Start: 2002.05.09 @ 09:49:04

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	M&GCO 20%g 50%o 30%m	1.315
35.00	O&GCM 10%g 30%o 60%m	0.491
221.00	GIP	3.100

Total Length: 442.00 ft

Total Volume: 4.906 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 5

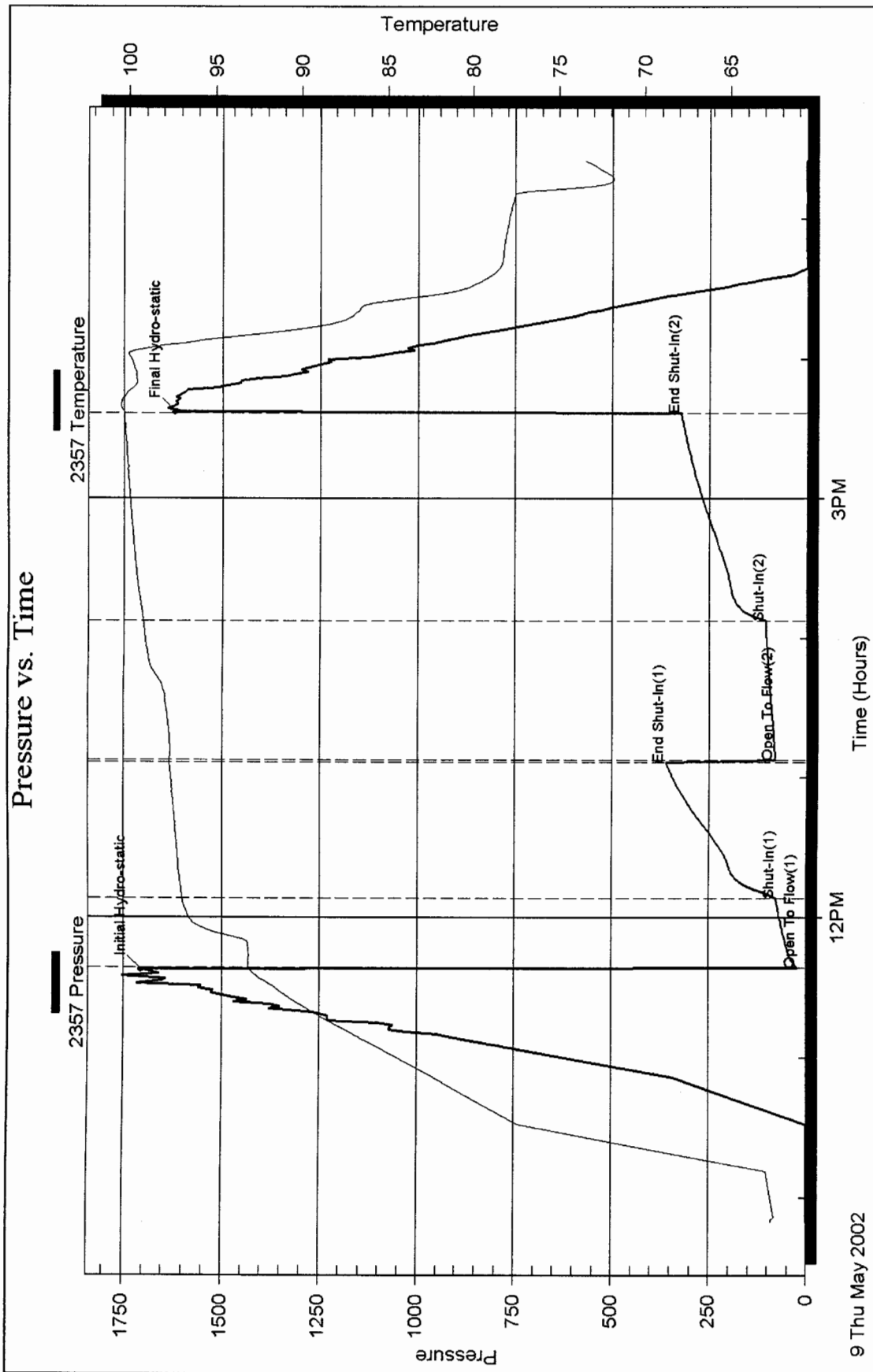
30-11s-17w Ellis-KS

Murfin Drilling Co Inc

Inside

Serial #: 2357

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 15793

SEP 1.6 2002
KCC WICHITA



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

30-11s-17w Ellis-KS

Hadley "L" #4

Start Date: 2002.05.11 @ 13:30:10

End Date: 2002.05.11 @ 21:07:10

Job Ticket #: 15794 DST #: 6

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

SEP 16 2002
KCC WICHITA



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

Hadley "L" #4

30-11s-17w Ellis-KS

Job Ticket: 15794

DST#: 6

Test Start: 2002.05.11 @ 13:30:10

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:40

Time Test Ended: 21:07:10

Test Type: Conventional Straddle

Tester: Dan Bangle

Unit No: 21

Interval: 3555.00 ft (KB) To 3600.00 ft (KB) (TVD)

Total Depth: 3700.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2097.00 ft (KB)

2092.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2357 Inside

Press@RunDepth: 462.13 psig @ 3559.01 ft (KB)

Start Date: 2002.05.11 End Date: 2002.05.11

Start Time: 13:30:11 End Time: 21:07:10

Capacity: 7000.00 psig

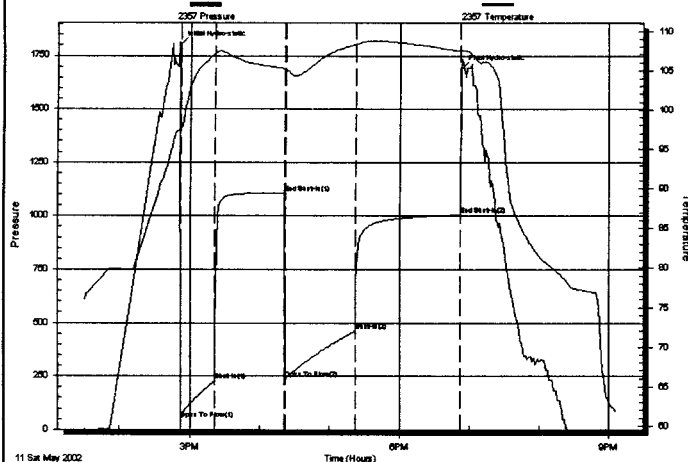
Last Calib.: 1899.12.30

Time On Btm: 2002.05.11 @ 14:51:40

Time Off Btm: 2002.05.11 @ 18:52:40

TEST COMMENT: IF-Strong BOB in 6 min
FF-Strong BOB in 9 min
Times-30-60-60-90

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1803.16	97.60	Initial Hydro-static
1	47.85	97.70	Open To Flow (1)
30	227.13	107.11	Shut-In(1)
90	1106.49	105.25	End Shut-In(1)
91	236.31	105.19	Open To Flow (2)
151	462.13	108.31	Shut-In(2)
241	1005.43	107.49	End Shut-In(2)
241	1690.22	107.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
868.00	Water w/scum oil t/o	10.88
186.00	OCMDyW 6%o 64%w 30% m	2.61
	Rw .24 @ 80 = 25000ppm	

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15794

DST#: 6

ATTN: Scott Robinson

Test Start: 2002.05.11 @ 13:30:10

Tool Information

Drill Pipe:	Length: 3398.00 ft	Diameter: 3.80 inches	Volume: 47.67 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 142.00 ft	Diameter: 2.25 inches	Volume: 0.70 bbl	Weight to Pull Loose: 68000.00 lb
			Total Volume: 48.37 bbl	Tool Chased 0.01 ft
Drill Pipe Above KB:	8.01 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3555.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	3600.02 ft			
Interval between Packers:	45.02 ft			
Tool Length:	168.03 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

SEP 16 2002

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			3533.00	
S.I. Tool	5.00			3538.00	
HMV	5.00			3543.00	
Safety Joint	2.00			3545.00	
Packer	5.00			3550.00	23.00 Bottom Of Top Packer
Packer	5.00			3555.00	
Stubb	1.00			3556.00	
Perforations	2.00			3558.00	
C.O. Sub	1.00			3559.00	
Recorder	0.01	2357	Inside	3559.01	
Blank Spacing	31.00			3590.01	
C.O. Sub	1.00			3591.01	
Recorder	0.01	13254	Outside	3591.02	
Perforations	9.00			3600.02	45.02 Tool Interval
Packer	5.00			3605.02	
Stubb	1.00			3606.02	
Blank Spacing	91.00			3697.02	
Recorder	0.01	13248	Outside	3697.03	
Bullnose	3.00			3700.03	100.01 Bottom Packers & Anchor

Total Tool Length: 168.03

79.724

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY												
	Murfin Drilling Co Inc 250 N Water Wichita, KS 67202 ATTN: Scott Robinson	Hadley "L" #4 30-11s-17w Ellis-KS Job Ticket: 15794 DST#: 6 Test Start: 2002.05.11 @ 13:30:10													
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: 25000 ppm												
Viscosity: 49.00 sec/qt		Cushion Volume: bbl													
Water Loss: 6.78 in ³		Gas Cushion Type:													
Resistivity: ohm.m		Gas Cushion Pressure: psig													
Salinity: 6000.00 ppm															
Filter Cake: inches															
Recovery Information															
Recovery Table															
<table border="1"><thead><tr><th>Length ft</th><th>Description</th><th>Volume bbl</th></tr></thead><tbody><tr><td>868.00</td><td>Water w/scum oil t/o</td><td>10.882</td></tr><tr><td>186.00</td><td>OCMdyW 6%o 64%w 30%m</td><td>2.609</td></tr><tr><td></td><td>Rw .24 @ 80 = 25000ppm</td><td></td></tr></tbody></table>				Length ft	Description	Volume bbl	868.00	Water w/scum oil t/o	10.882	186.00	OCMdyW 6%o 64%w 30%m	2.609		Rw .24 @ 80 = 25000ppm	
Length ft	Description	Volume bbl													
868.00	Water w/scum oil t/o	10.882													
186.00	OCMdyW 6%o 64%w 30%m	2.609													
	Rw .24 @ 80 = 25000ppm														
Total Length: 1054.00 ft		Total Volume: 13.491 bbl													
Num Fluid Samples: 0		Num Gas Bombs: 0 Serial #:													
Laboratory Name:		Laboratory Location:													
Recovery Comments:															

Serial #: 2357

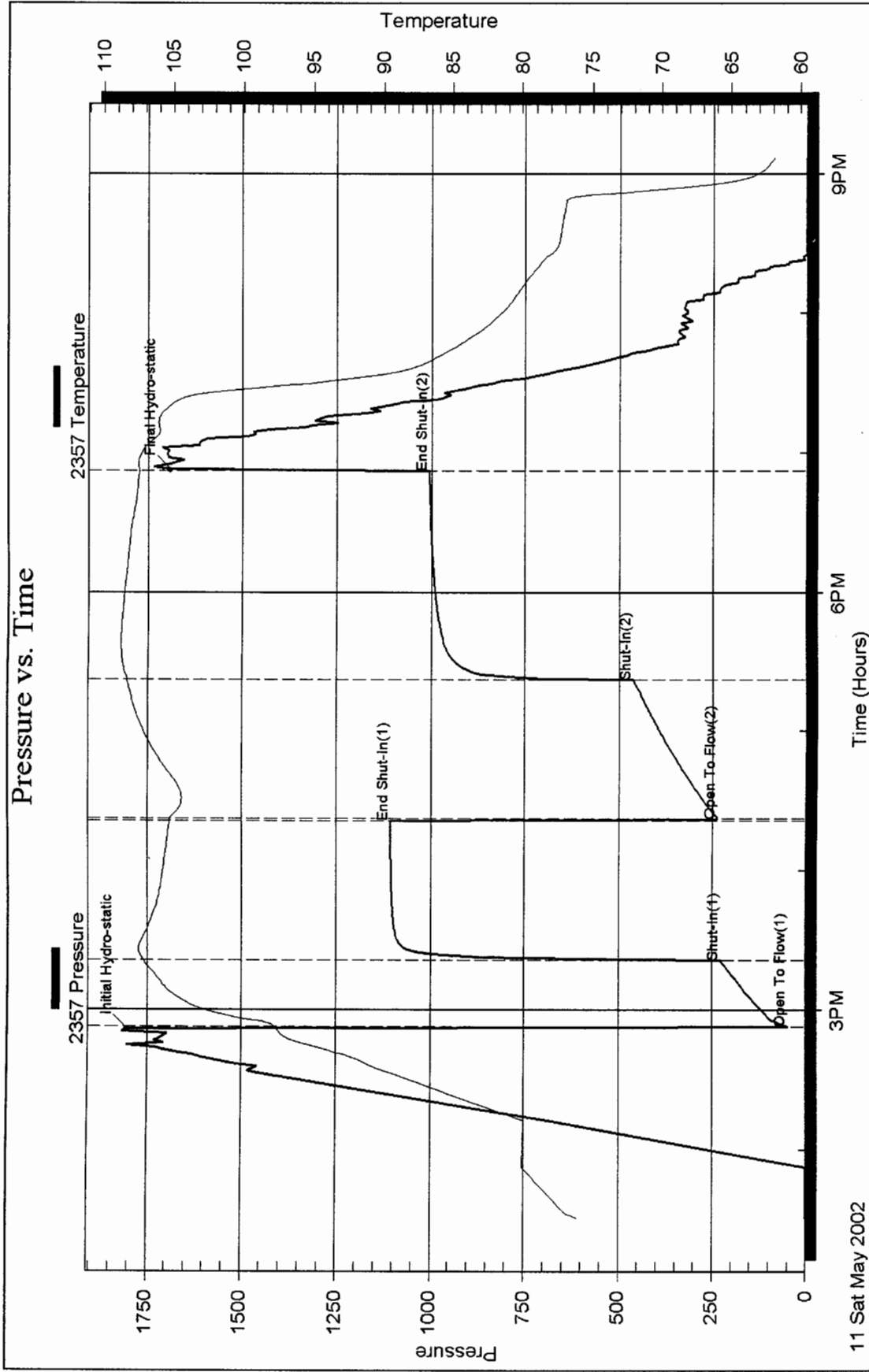
Inside

Murfin Drilling Co Inc

30-11s-17w Ellis-KS

DST Test Number: 6

Pressure vs. Time

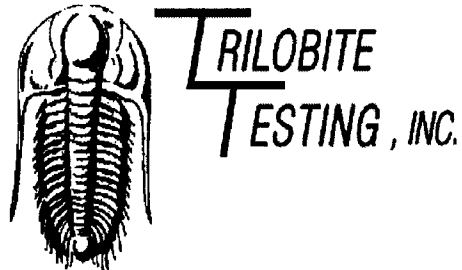


SEP 16 2002
KCC WICHITA

Trilobite Testing, Inc

Ref. No: 15794

Printed: 2002.05.13 @ 13:44:02 Page 5



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

30-11s-17w Ellis-KS

Hadley "L" #4

Start Date: 2002.05.11 @ 21:59:08

End Date: 2002.05.12 @ 05:59:08

Job Ticket #: 15795

DST #: 7

SEP 16 2002
KCC WICHITA

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
Wichita, KS 67202

ATTN: Scott Robinson

Hadley "L" #4

30-11s-17w Ellis-KS

Job Ticket: 15795

DST#: 7

Test Start: 2002.05.11 @ 21:59:08

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 23:41:08

Time Test Ended: 05:59:08

Test Type: **Conventional Straddle**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3622.00 ft (KB) To 3632.00 ft (KB) (TVD)**

Total Depth: **3700.00 ft (KB) (TVD)**

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

Reference Elevations: **2097.00 ft (KB)**

2092.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 2357

Press@RunDepth: **388.23 psig @ ft (KB)**

Start Date: **2002.05.11**

End Date:

2002.05.12

Start Time: **21:59:09**

End Time:

05:59:08

Capacity: **7000.00 psig**

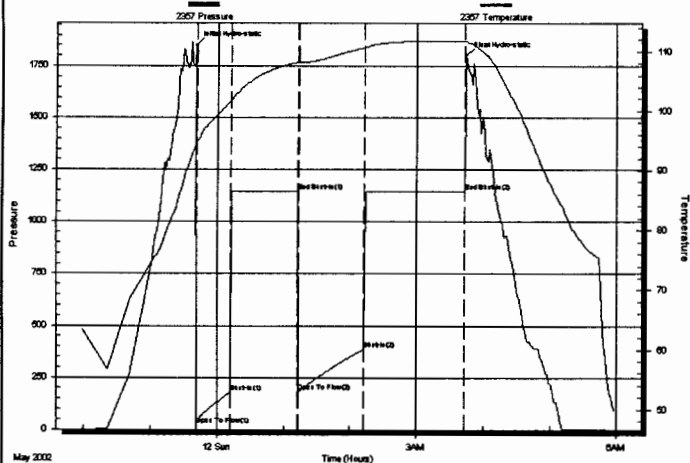
Last Calib.: **1899.12.30**

Time On Btm: **2002.05.11 @ 23:40:38**

Time Off Btm: **2002.05.12 @ 03:44:08**

TEST COMMENT: IF-Strong BOB in 7 min
FF-Strong BOB in 12 min
Times-30-60-60-90

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.84	94.26	Initial Hydro-static
1	22.98	94.44	Open To Flow (1)
31	179.07	101.63	Shut-In(1)
92	1146.74	108.17	End Shut-In(1)
92	183.95	108.19	Open To Flow(2)
152	388.23	110.60	Shut-In(2)
243	1143.24	111.65	End Shut-In(2)
244	1802.92	111.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	water Rw .54 @ 75 = 11000ppm	3.05
124.00	water w/ scum oil	1.74
62.00	OCW 20%o 80%w	0.87
263.00	CGsy O 10%g 90%o	3.69

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Hadley "L" #4

250 N Water
Wichita, KS 67202

30-11s-17w Ellis-KS

Job Ticket: 15795

DST#: 7

ATTN: Scott Robinson

Test Start: 2002.05.11 @ 21:59:08

Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 142.00 ft	Diameter: 2.25 inches	Volume: 0.70 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	49.63 bbl	Tool Chased	0.01 ft
Drill Pipe Above KB:	31.01 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3622.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	3632.01 ft				
Interval between Packers:	10.01 ft				
Tool Length:	104.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3600.00		
S.I. Tool	5.00			3605.00		
HMV	5.00			3610.00		
Safety Joint	2.00			3612.00		
Packer	5.00			3617.00	23.00	Bottom Of Top Packer
Packer	5.00			3622.00		
Stubb	1.00			3623.00		
Recorder	0.01	2357	Inside	3623.01		
Perforations	9.00			3632.01	10.01	Tool Interval
Packer	5.00			3637.01		
Stubb	1.00			3638.01		
Blank Spacing	62.00			3700.01		
Recorder	0.01	13254	Outside	3700.02		
Bullnose	3.00			3703.02	71.01	Bottom Packers & Anchor

Total Tool Length: 104.02

SEP 16 2002
KCC WICHITA

79724

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Murfin Drilling Co Inc 250 N Water Wichita, KS 67202 ATTN: Scott Robinson	Hadley "L" #4 30-11s-17w Ellis-KS Job Ticket: 15795 DST#: 7 Test Start: 2002.05.11 @ 21:59:08	

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 49.00 sec/qt Water Loss: 6.79 in ³ Resistivity: ohm.m Salinity: 6000.00 ppm Filter Cake: inches	Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig	Oil API: deg API Water Salinity: 11000 ppm
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Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	water Rw .54 @ 75 = 11000ppm	3.055
124.00	water w/ scum oil	1.739
62.00	OCW 20%o 80%w	0.870
263.00	CGsy O 10%g 90%o	3.689

Total Length: 759.00 ft	Total Volume: 9.353 bbl	
Num Fluid Samples: 0	Num Gas Bombs: 0	Serial #:
Laboratory Name:	Laboratory Location:	
Recovery Comments:		

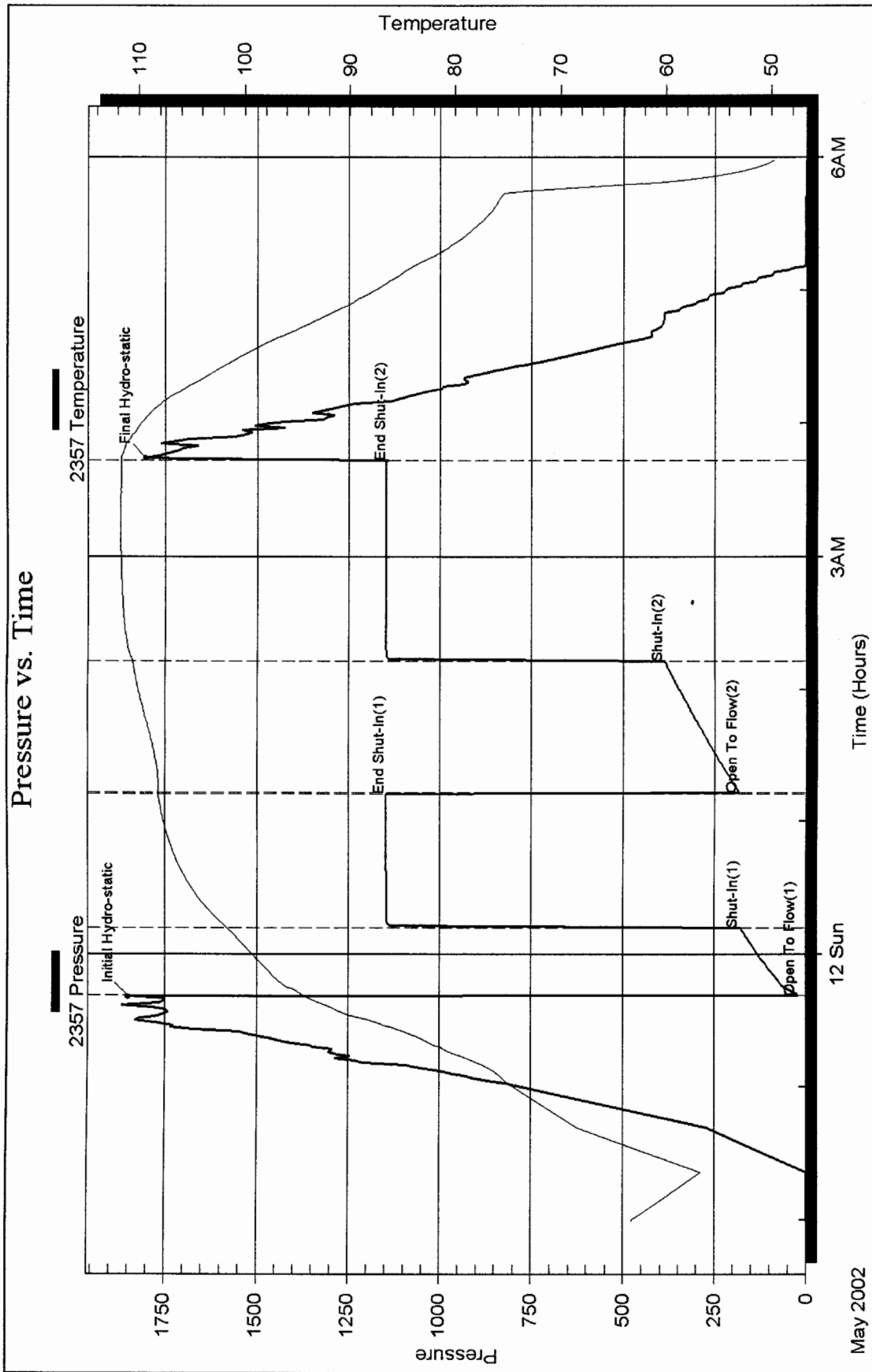
Serial #: 2357

Murfin Drilling Co Inc

30-11s-17w Ellis-KS

DST Test Number: 7

Pressure vs. Time



SEP 16 2002
KCC WICHITA

Trilobite Testing, Inc

Ref. No: 15795

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