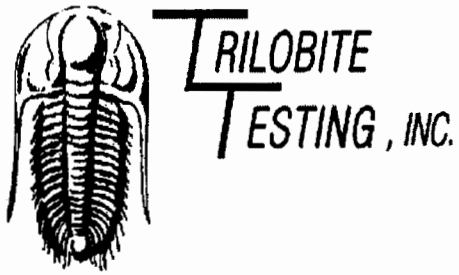


KCC  
SEP 23 2005  
CONFIDENTIAL



**DRILL STEM TEST REPORT**

Prepared For: **Murfin Drilling Co. Inc.**  
250 N Water, Suite 300  
Wichita, Ks. 67202

ATTN: Dave Goldak

**27-12s-14w-Russell**      15-167-23290-00-00

**Austin #1-27**

Start Date: 2005.07.21 @ 22:00:45  
End Date: 2005.07.22 @ 05:13:30  
Job Ticket #: 22051      DST #: 1

RECEIVED  
SEP 23 2005  
KCC WICHITA

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

Murfin Drilling Co. Inc.

Austin #1-27

27-12s-14w-Russell

DST # 1

Oread

2005.07.21

27-12s-14w



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.  
250 N Water, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22051      DST#: 1  
Test Start: 2005.07.21 @ 22:00:45

### GENERAL INFORMATION:

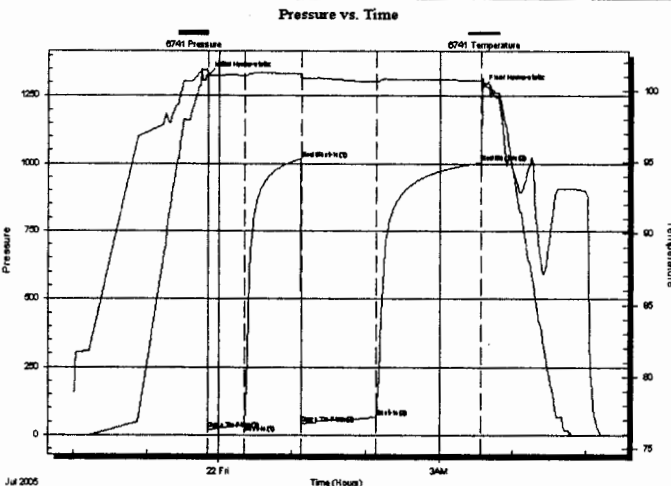
Formation: **Oread**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 23:50:45  
Time Test Ended: 05:13:30  
Interval: **2831.00 ft (KB) To 2860.00 ft (KB) (TVD)**  
Total Depth: **2860.00 ft (KB) (TVD)**  
Hole Diameter: **7.80 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Jason McLemore**  
Unit No: **32**  
Reference Elevations: **1762.00 ft (KB)**  
**1757.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

### Serial #: 6741

**Inside**

Press@RunDepth: **65.44 psig @ 2834.00 ft (KB)**  
Start Date: **2005.07.21** End Date: **2005.07.22**  
Start Time: **22:00:47** End Time: **05:13:30**  
Capacity: **7000.00 psig**  
Last Calib.: **2005.07.22**  
Time On Btm: **2005.07.21 @ 23:50:30**  
Time Off Btm: **2005.07.22 @ 03:34:30**

TEST COMMENT: **FP-Weak Blow, Built to 1/2" to 2"**  
**ISI-Dead**  
**FFP-Dead For 20 Min, Then Weak Surface Blow**  
**FSI-Dead**



### PRESSURE SUMMARY

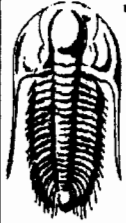
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1324.57	101.52	Initial Hydro-static
1	19.04	101.13	Open To Flow (1)
31	36.98	101.01	Shut-In(1)
77	1017.67	101.19	End Shut-In(1)
78	40.89	100.67	Open To Flow (2)
138	65.44	100.63	Shut-In(2)
224	1004.61	100.71	End Shut-In(2)
224	1279.41	100.83	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
125.00	Muddy Water W/Oil Specks	0.62

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

**Austin #1-27**

250 N Water, Suite 300  
Wichita, Ks. 67202

**27-12s-14w-Russell**

Job Ticket: 22051

DST#: 1

ATTN: Dave Goldak

Test Start: 2005.07.21 @ 22:00:45

### Tool Information

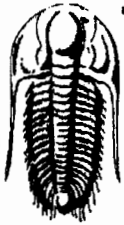
Drill Pipe:	Length: 2704.00 ft	Diameter: 3.80 inches	Volume: 37.93 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 38.54 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	2831.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	52.00 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			2809.00	
Shut In Tool	5.00			2814.00	
Hydraulic tool	5.00			2819.00	
Safety Joint	2.00			2821.00	
Packer	5.00			2826.00	23.00 Bottom Of Top Packer
Packer	5.00			2831.00	
Stubb	1.00			2832.00	
Perforations	2.00			2834.00	
Recorder	0.00	6741	Inside	2834.00	
Perforations	23.00			2857.00	
Recorder	0.00	13252	Outside	2857.00	
Bullnose	3.00			2860.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co. Inc.  
250 N Water, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22051      **DST#: 1**  
Test Start: 2005.07.21 @ 22:00:45

**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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5700.00 ppm			
Filter Cake: 2.00 inches			

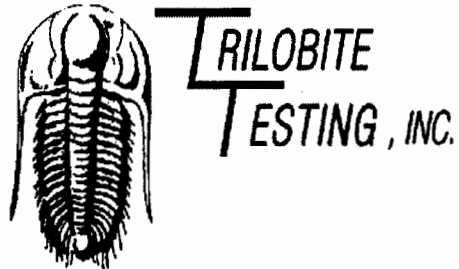
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
125.00	Muddy Water W/Oil Specks	0.624

Total Length: 125.00 ft      Total Volume: 0.624 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water, Suite 300  
Wichita, Ks. 67202

ATTN: Dave Goldak

**27-12s-14w-Russell**

**Austin #1-27**

Start Date: 2005.07.22 @ 16:53:25

End Date: 2005.07.22 @ 22:43:40

Job Ticket #: 22052                      DST #: 2

RECEIVED  
SEP 23 2005  
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

TOOL DIAGRAM

Murfin Drilling Co. Inc.  
250 N Water, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22052      **DST#: 2**  
Test Start: 2005.07.22 @ 16:53:25

### Tool Information

Drill Pipe:	Length: 2733.00 ft	Diameter: 3.80 inches	Volume: 38.34 bbl	Tool Weight: 2200.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 38.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	2866.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	113.00 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			2846.00	
Shut In Tool	5.00			2851.00	
Hydraulic tool	5.00			2856.00	
Packer	5.00			2861.00	21.00      Bottom Of Top Packer
Packer	5.00			2866.00	
Stubb	1.00			2867.00	
Perforations	1.00			2868.00	
Recorder	0.00	6741	Inside	2868.00	
Change Over Sub	1.00			2869.00	
Blank Spacing	63.00			2932.00	
Change Over Sub	1.00			2933.00	
Perforations	22.00			2955.00	
Recorder	0.00	13221	Outside	2955.00	
Bullnose	3.00			2958.00	92.00      Bottom Packers & Anchor

**RECEIVED**  
**SEP 23 2005**  
**KCC WICHITA**

**Total Tool Length: 113.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co. Inc.  
250 N Water, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22052      **DST#: 2**  
Test Start: 2005.07.22 @ 16:53:25

**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: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6700.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
1110.00	Mud	14.441

Total Length: 1110.00ft      Total Volume: 14.441 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 6741

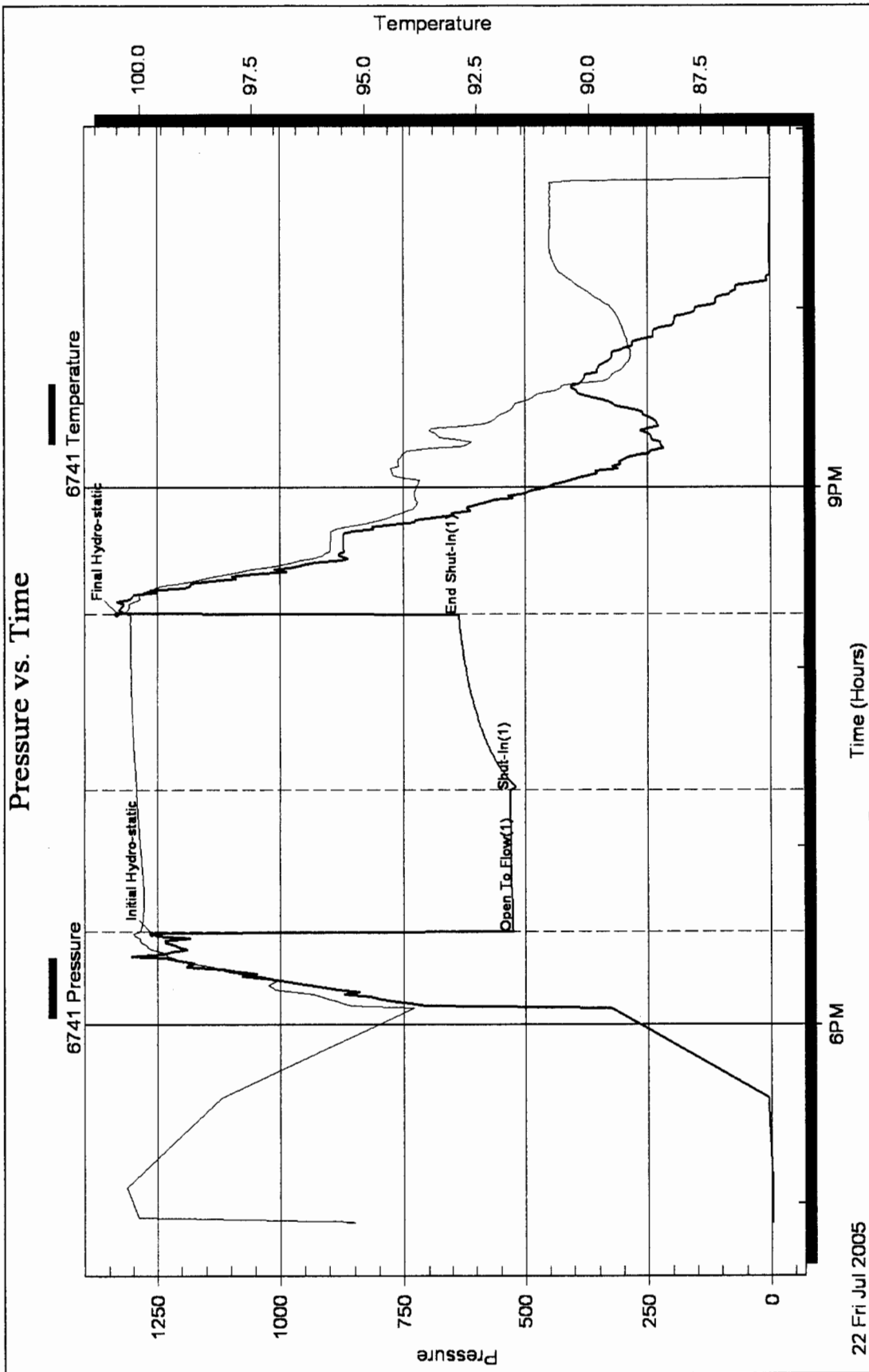
Inside

Murfin Drilling Co. Inc.

27-12s-14w-Russell

DST Test Number: 2

### Pressure vs. Time

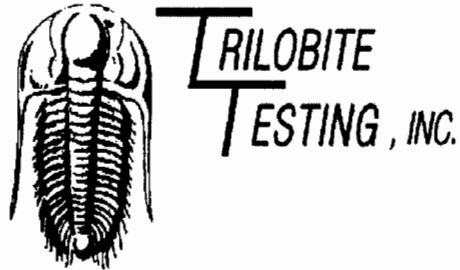


RECEIVED  
 SEP 23 2005  
 KCC WICHITA

Trilobite Testing, Inc

Ref. No: 22052

Printed: 2005.07.29 @ 12:19:28 Page 5



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water, Suite 300  
Wichita, Ks. 67202

ATTN: Dave Goldak

**27-12s-14w-Russell**

**Austin #1-27**

Start Date: 2005.07.22 @ 23:03:07

End Date: 2005.07.23 @ 06:14:07

Job Ticket #: 22053                      DST #: 3

RECEIVED  
SEP 23 2005  
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, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

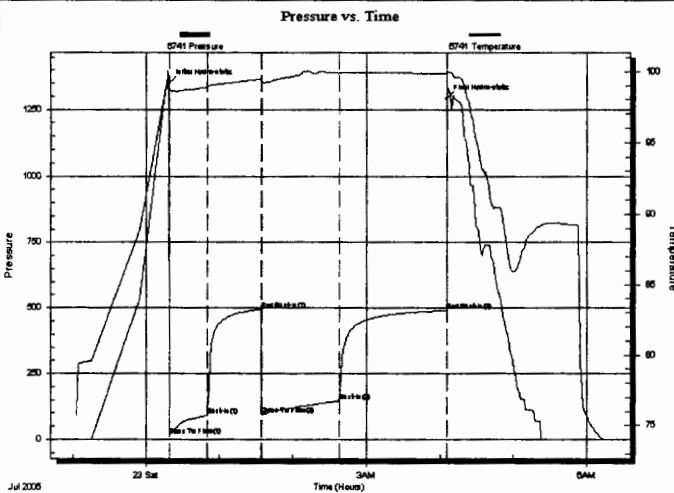
**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22053      **DST#: 3**  
Test Start: 2005.07.22 @ 23:03:07

### GENERAL INFORMATION:

Formation: **Toronto-Lansing-"A-B**  
 Deviated: **No Whipstock**      ft (KB)      Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **00:19:07**      Tester: **Jason McLemore**  
 Time Test Ended: **06:14:07**      Unit No: **32**  
 Interval: **2866.00 ft (KB) To 2958.00 ft (KB) (TVD)**      Reference Elevations: **1762.00 ft (KB)**  
 Total Depth: **2958.00 ft (KB) (TVD)**      **1757.00 ft (CF)**  
 Hole Diameter: **7.80 inches** Hole Condition: **Good**      KB to GR/CF: **5.00 ft**

**Serial #: 6741      Inside**  
 Press@RunDepth: **145.99 psig @ 2868.00 ft (KB)**      Capacity: **7000.00 psig**  
 Start Date: **2005.07.22**      End Date: **2005.07.23**      Last Calib.: **2005.07.23**  
 Start Time: **23:03:09**      End Time: **06:14:07**      Time On Btm: **2005.07.23 @ 00:18:52**  
 Time Off Btm: **2005.07.23 @ 04:05:37**

**TEST COMMENT:** **IFP-Good Blow ,BOB in 26 Minutes**  
**IS-Dead**  
**FFP- Good Blow ,BOB in 35 Minutes**  
**FS- Dead**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1349.08	99.00	Initial Hydro-static
1	15.69	98.73	Open To Flow (1)
32	90.55	98.90	Shut-In(1)
76	494.62	99.45	End Shut-In(1)
76	94.84	99.36	Open To Flow (2)
139	145.99	99.89	Shut-In(2)
227	489.95	99.88	End Shut-In(2)
227	1292.37	100.08	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
270.00	SOCMV-5%O-15%VW-80%M	2.66

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Co. Inc.  
250 N Water, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22053      **DST#: 3**  
Test Start: 2005.07.22 @ 23:03:07

**Tool Information**

Drill Pipe:	Length: 2733.00 ft	Diameter: 3.80 inches	Volume: 38.34 bbl	Tool Weight: 2200.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 38.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	2866.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	113.00 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			2846.00	
Shut In Tool	5.00			2851.00	
Hydraulic tool	5.00			2856.00	
Packer	5.00			2861.00	21.00      Bottom Of Top Packer
Packer	5.00			2866.00	
Stubb	1.00			2867.00	
Perforations	1.00			2868.00	
Recorder	0.00	6741	Inside	2868.00	
Change Over Sub	1.00			2869.00	
Blank Spacing	63.00			2932.00	
Change Over Sub	1.00			2933.00	
Perforations	22.00			2955.00	
Recorder	0.00	13221	Outside	2955.00	
Bullnose	3.00			2958.00	92.00      Bottom Packers & Anchor

**Total Tool Length: 113.00**

RECEIVED  
SEP 23 2005  
KCC WICHITA



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co. Inc.  
250 N Water, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22053      **DST#: 3**  
Test Start: 2005.07.22 @ 23:03:07

**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:	38000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6700.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
270.00	SOCMM-5%O-15%W-80%M	2.658

Total Length: 270.00 ft      Total Volume: 2.658 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 6741

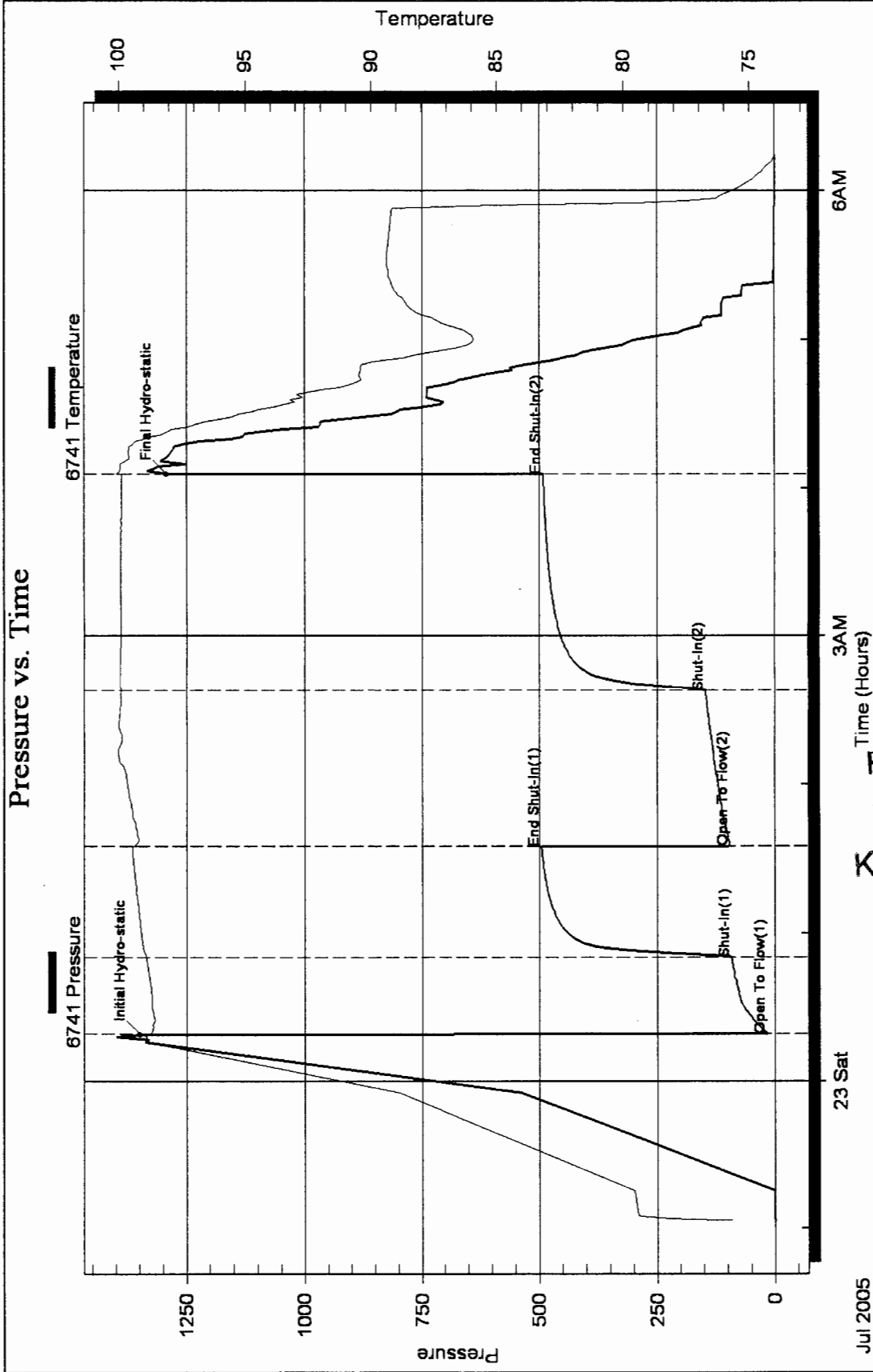
Inside

Murfin Drilling Co. Inc.

27-12s-14w -Russell

DST Test Number: 3

### Pressure vs. Time

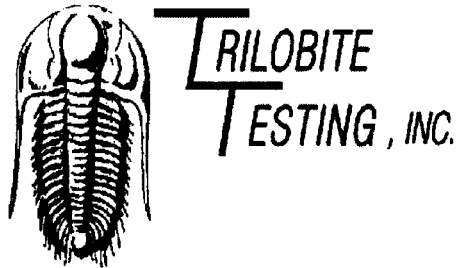


RECEIVED  
 SEP 25 2005  
 KCC WICHITA

Trilobite Testing, Inc

Ref. No: 22053

Printed: 2005.07.29 @ 12:19:41 Page 5



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water, Suite 300  
Wichita, Ks. 67202

ATTN: Dave Goldak

**27-12s-14w-Russell**

**Austin #1-27**

Start Date: 2005.07.23 @ 12:04:47

End Date: 2005.07.23 @ 19:23:32

Job Ticket #: 22054                      DST #: 4

RECEIVED  
SEP 23 2005  
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, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

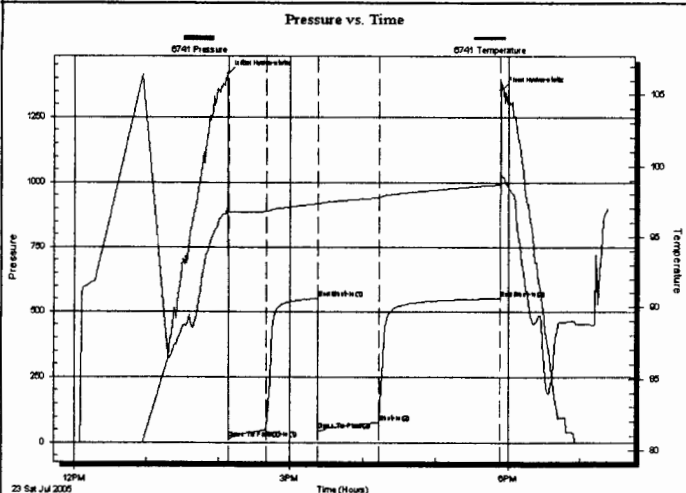
**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22054      **DST#: 4**  
Test Start: 2005.07.23 @ 12:04:47

### GENERAL INFORMATION:

Formation: **Lansing "D"**  
Deviated: **No** Whipstock:      ft (KB)  
Time Tool Opened: 14:08:17  
Time Test Ended: 19:23:32  
Test Type: **Conventional Bottom Hole**  
Tester: **Jason McLemore**  
Unit No: **32**  
Interval: **2957.00 ft (KB) To 2973.00 ft (KB) (TVD)**  
Total Depth: **2973.00 ft (KB) (TVD)**  
Reference Elevations: **1762.00 ft (KB)**  
**1757.00 ft (CF)**  
Hole Diameter: **7.80 inches** Hole Condition: **Good**  
KB to GR/CF: **5.00 ft**

**Serial #: 6741**      **Inside**  
Press@RunDepth: **77.19 psig @ 2960.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2005.07.23**      End Date: **2005.07.23**      Last Calib.: **2005.07.23**  
Start Time: **12:04:49**      End Time: **19:23:32**      Time On Btm: **2005.07.23 @ 14:08:02**  
Time Off Btm: **2005.07.23 @ 17:53:47**

**TEST COMMENT:** FFP-Strong Blow, BOB in 5 Mn.  
ISI-Blow back Built to 1/2", Dead in 15 Mn.  
FFP-Strong Blow, BOB in 2 Mn.  
FSI-Blow back Built to 3"



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1415.44	97.08	Initial Hydro-static
1	14.73	96.78	Open To Flow (1)
32	47.33	96.80	Shut-In(1)
75	550.62	97.35	End Shut-In(1)
76	48.03	97.29	Open To Flow (2)
125	77.19	97.78	Shut-In(2)
226	550.74	98.70	End Shut-In(2)
226	1352.91	98.92	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	Clean Oil	0.30
10.00	HOCM-50%O-50%M	0.05
65.00	Clean Oil	0.42

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Co. Inc.  
250 N Water, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22054      **DST#: 4**  
Test Start: 2005.07.23 @ 12:04:47

**Tool Information**

Drill Pipe:	Length: 2826.00 ft	Diameter: 3.80 inches	Volume: 39.64 bbl	Tool Weight: 2200.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 40.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	2957.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	37.00 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			2937.00	
Shut In Tool	5.00			2942.00	
Hydraulic tool	5.00			2947.00	
Packer	5.00			2952.00	21.00      Bottom Of Top Packer
Packer	5.00			2957.00	
Stubb	1.00			2958.00	
Perforations	2.00			2960.00	
Recorder	0.00	6741	Inside	2960.00	
Perforations	10.00			2970.00	
Recorder	0.00	13252	Outside	2970.00	
Bullnose	3.00			2973.00	16.00      Bottom Packers & Anchor

**Total Tool Length: 37.00**

**RECEIVED**  
**SEP 23**  
**KCC WICHITA**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Austin #1-27

250 N Water, Suite 300  
Wichita, Ks. 67202

27-12s-14w-Russell

Job Ticket: 22054

DST#: 4

ATTN: Dave Goldak

Test Start: 2005.07.23 @ 12:04:47

### 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:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Clean Oil	0.295
10.00	HOCM-50%O-50%M	0.049
65.00	Clean Oil	0.420

Total Length: 135.00 ft

Total Volume: 0.764 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

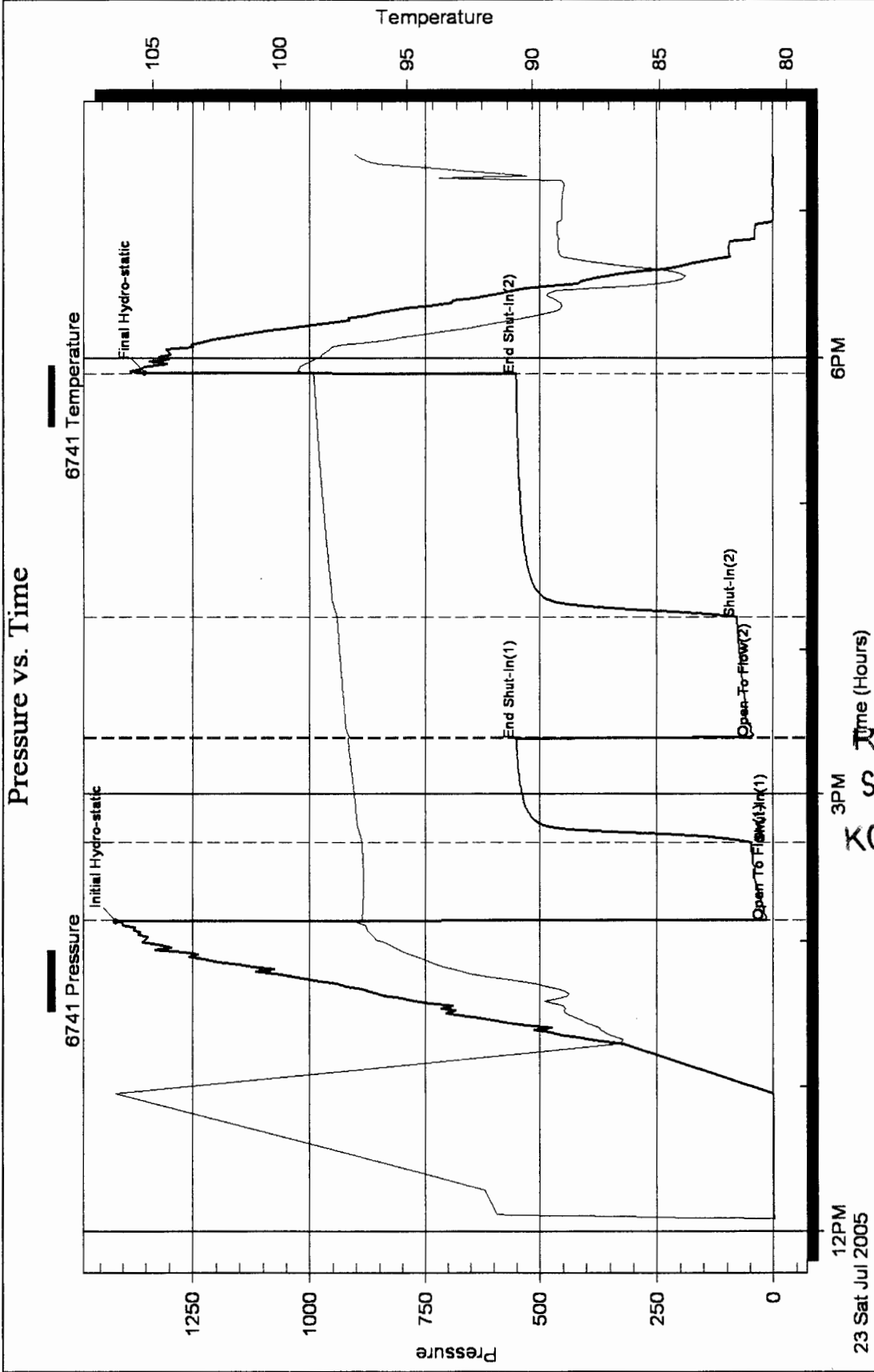
Inside

Murfin Drilling Co. Inc.

27-12s-14w-Russell

DST Test Number: 4

### Pressure vs. Time

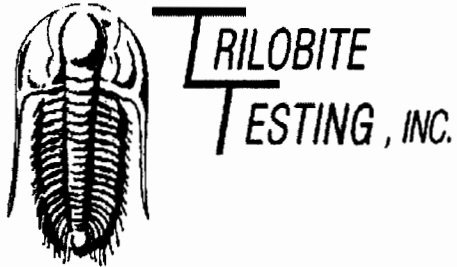


RECEIVED  
 SEP 28 2005  
 KCC WICHITA

Trilobite Testing, Inc

Ref. No: 22054

Printed: 2005.07.29 @ 12:19:54 Page 5



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water, Suite 300  
Wichita, Ks. 67202

ATTN: Dave Goldak

**27-12s-14w-Russell**

**Austin #1-27**

Start Date: 2005.07.24 @ 05:17:05

End Date: 2005.07.24 @ 12:32:35

Job Ticket #: 22055                      DST #: 5

RECEIVED  
SEP 23 2005  
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, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22055      DST#: 5  
Test Start: 2005.07.24 @ 05:17:05

### GENERAL INFORMATION:

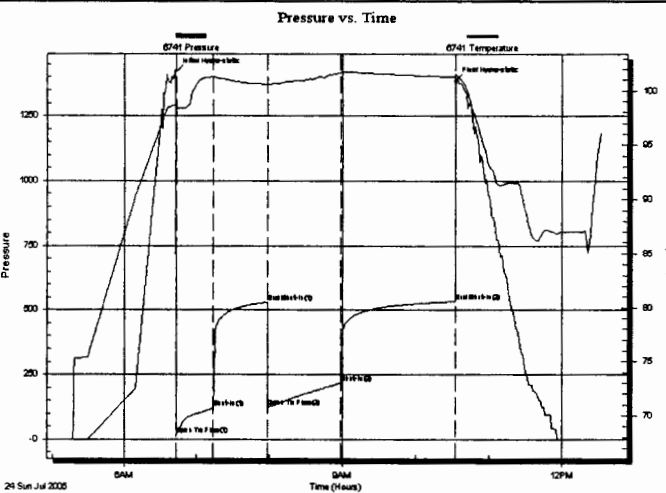
Formation: **LKC-"G"**  
Deviated: **No Whipstock:**                      ft (KB)  
Time Tool Opened: 06:43:05  
Time Test Ended: 12:32:35  
Interval: **2982.00 ft (KB) To 3025.00 ft (KB) (TVD)**  
Total Depth: **3025.00 ft (KB) (TVD)**  
Hole Diameter: **7.80 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Jason McLemore**  
Unit No: **32**  
Reference Elevations: **1762.00 ft (KB)**  
**1757.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

### Serial #: 6741

**Inside**

Press@RunDepth: **217.38 psig @ 2985.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2005.07.24**      End Date: **2005.07.24**      Last Calib.: **2005.07.24**  
Start Time: **05:17:07**      End Time: **12:32:35**      Time On Btm: **2005.07.24 @ 06:42:50**  
Time Off Btm: **2005.07.24 @ 10:32:20**

TEST COMMENT: **FP-Fair Blow, BOB in 15 Min.**  
**ISI-Dead**  
**FFP-Fair Blow, BOB in 24 Min.**  
**FSI-Dead**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1420.87	98.76	Initial Hydro-static
1	16.72	98.44	Open To Flow (1)
32	120.79	101.27	Shut-In(1)
76	530.89	100.61	End Shut-In(1)
76	124.36	100.52	Open To Flow (2)
136	217.38	101.64	Shut-In(2)
230	533.91	101.31	End Shut-In(2)
230	1385.28	101.53	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
360.00	Slightly Muddy Water	3.92
60.00	Muddy Water W/Oil Specks	0.84

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co. Inc.  
250 N Water, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22055      **DST#: 5**  
Test Start: 2005.07.24 @ 05:17:05

### Tool Information

Drill Pipe:	Length: 2857.00 ft	Diameter: 3.80 inches	Volume: 40.08 bbl	Tool Weight: 2200.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 40.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	2982.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	64.00 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			2962.00	
Shut In Tool	5.00			2967.00	
Hydraulic tool	5.00			2972.00	
Packer	5.00			2977.00	21.00      Bottom Of Top Packer
Packer	5.00			2982.00	
Stubb	1.00			2983.00	
Perforations	2.00			2985.00	
Recorder	0.00	6741	Inside	2985.00	
Change Over Sub	1.00			2986.00	
Blank Spacing	30.00			3016.00	
Change Over Sub	1.00			3017.00	
Perforations	5.00			3022.00	
Recorder	0.00	13221	Outside	3022.00	
Bullnose	3.00			3025.00	43.00      Bottom Packers & Anchor

**Total Tool Length: 64.00**

**RECEIVED**  
**SEP 23 2005**  
**KCC WICHITA**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co. Inc.  
250 N Water, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22055      **DST#: 5**  
Test Start: 2005.07.24 @ 05:17:05

**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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9200.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
360.00	Slightly Muddy Water	3.920
60.00	Muddy Water W/Oil Specks	0.842

Total Length: 420.00 ft      Total Volume: 4.762 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 6741

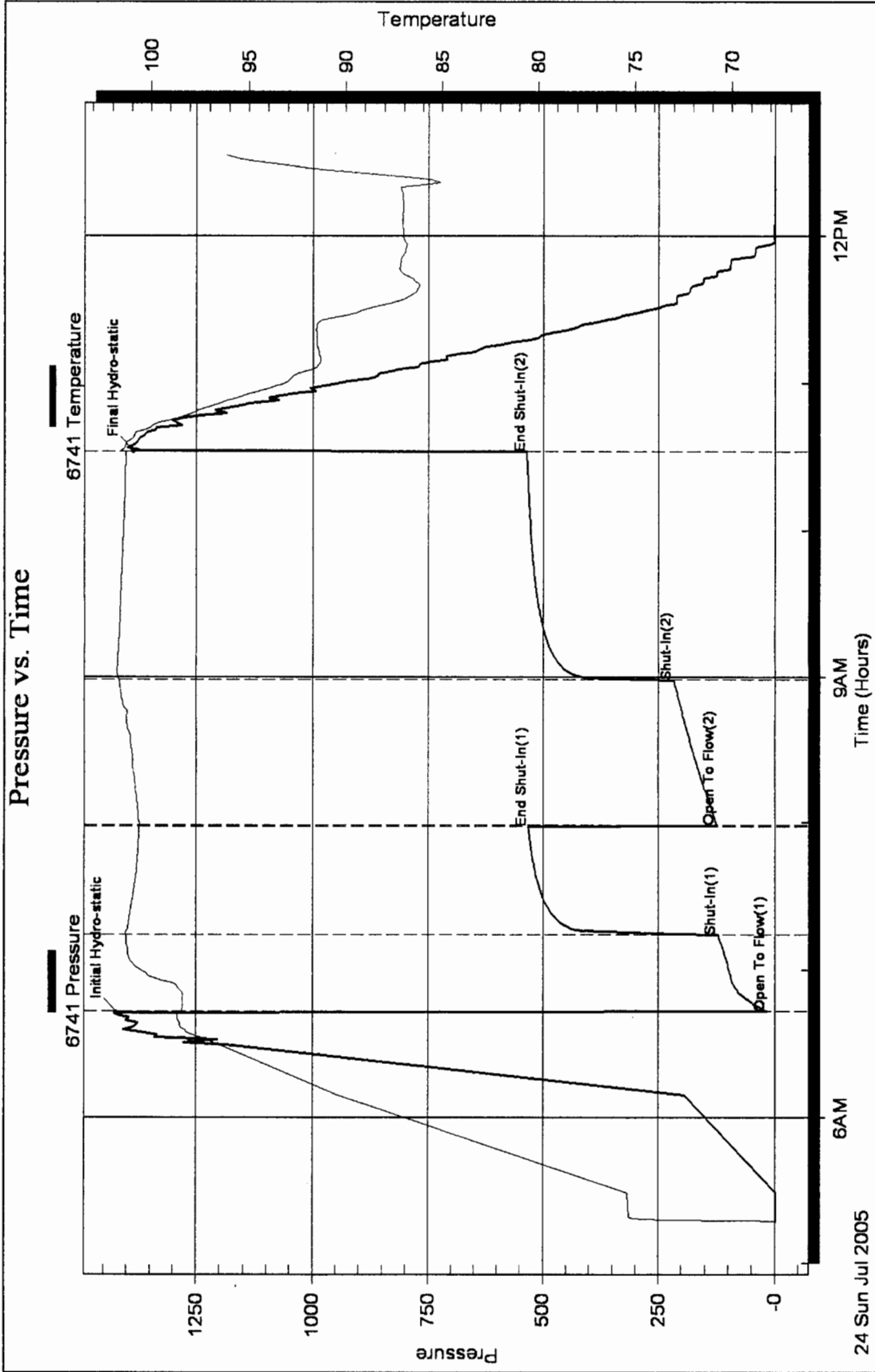
Inside

Murfin Drilling Co. Inc.

27-12s-14w -Russell

DST Test Number: 5

### Pressure vs. Time

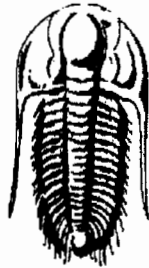


RECEIVED  
 SEP 23 2005  
 KCC WICHITA

Trilobite Testing, Inc

Ref. No: 22055

Printed: 2005.07.29 @ 12:20:04 Page 5



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water, Suite 300  
Wichita, Ks. 67202

ATTN: Dave Goldak

**27-12s-14w-Russell**

**Austin #1-27**

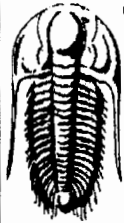
Start Date: 2005.07.25 @ 03:31:44

End Date: 2005.07.25 @ 09:33:59

Job Ticket #: 22056                      DST #: 6

RECEIVED  
SEP 23 2005  
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, Suite 300  
 Wichita, Ks. 67202  
 ATTN: Dave Goldak

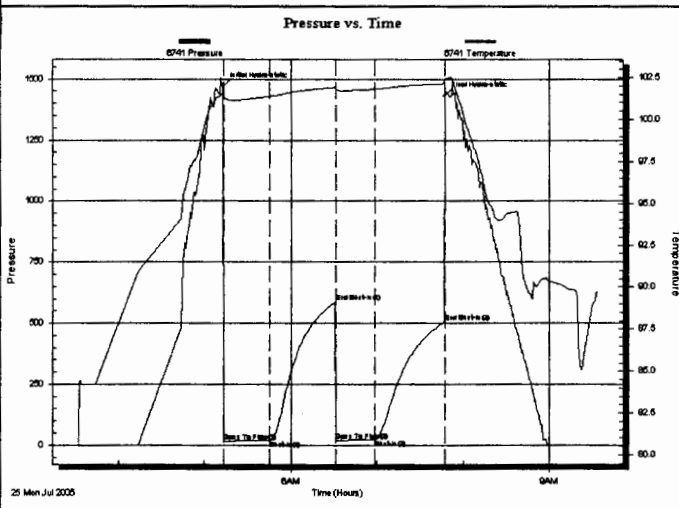
**Austin #1-27**  
**27-12s-14w-Russell**  
 Job Ticket: 22056      DST#: 6  
 Test Start: 2005.07.25 @ 03:31:44

## GENERAL INFORMATION:

Formation: **LKC-"HI-J"**  
 Deviated: **No** Whipstock:      ft (KB)  
 Time Tool Opened: 05:13:29  
 Time Test Ended: 09:33:59  
 Interval: **3072.00 ft (KB) To 3133.00 ft (KB) (TVD)**  
 Total Depth: **3133.00 ft (KB) (TVD)**  
 Hole Diameter: **7.80 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Jason McLemore**  
 Unit No: **32**  
 Reference Elevations: **1762.00 ft (KB)**  
    **1757.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

**Serial #: 6741**      **Inside**  
 Press@RunDepth: **21.60 psig @ 3075.00 ft (KB)**      Capacity: **7000.00 psig**  
 Start Date: **2005.07.25**      End Date: **2005.07.25**      Last Calib.: **2005.07.25**  
 Start Time: **03:31:46**      End Time: **09:33:59**      Time On Btm: **2005.07.25 @ 05:13:14**  
    **09:33:59**      Time Off Btm: **2005.07.25 @ 07:47:14**

**TEST COMMENT:** FFP-Weak Blow ,Built to 1/4",Died in 15 Mn.  
 ISI-Dead  
 FFP-Dead  
 FSI-Dead



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1471.44	101.59	Initial Hydro-static
1	13.51	101.21	Open To Flow (1)
32	18.84	101.39	Shut-In(1)
78	587.75	101.92	End Shut-In(1)
79	19.34	101.77	Open To Flow (2)
106	21.60	101.82	Shut-In(2)
154	504.55	102.15	End Shut-In(2)
154	1430.78	102.41	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	Mud With Oil Specks	0.01

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Co. Inc.  
250 N Water, Suite 300  
Wichita, Ks. 67202  
ATTN: Dave Goldak

**Austin #1-27**  
**27-12s-14w-Russell**  
Job Ticket: 22056      **DST#: 6**  
Test Start: 2005.07.25 @ 03:31:44

**Tool Information**

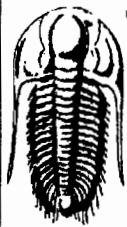
Drill Pipe:	Length: 2948.00 ft	Diameter: 3.80 inches	Volume: 41.35 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 41.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3072.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	82.00 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			3052.00	
Shut In Tool	5.00			3057.00	
Hydraulic tool	5.00			3062.00	
Packer	5.00			3067.00	21.00      Bottom Of Top Packer
Packer	5.00			3072.00	
Stubb	1.00			3073.00	
Perforations	2.00			3075.00	
Recorder	0.00	6741	Inside	3075.00	
Change Over Sub	1.00			3076.00	
Blank Spacing	30.00			3106.00	
Change Over Sub	1.00			3107.00	
Perforations	23.00			3130.00	
Recorder	0.00	13221	Outside	3130.00	
Bullnose	3.00			3133.00	61.00      Bottom Packers & Anchor

**Total Tool Length: 82.00**

RECEIVED  
SEP 23 2005  
KCC WICHITA



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

**Austin #1-27**

250 N Water, Suite 300  
Wichita, Ks. 67202

**27-12s-14w-Russell**

Job Ticket: 22056

**DST#: 6**

ATTN: Dave Goldak

Test Start: 2005.07.25 @ 03:31:44

### 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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud With Oil Specks	0.010

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

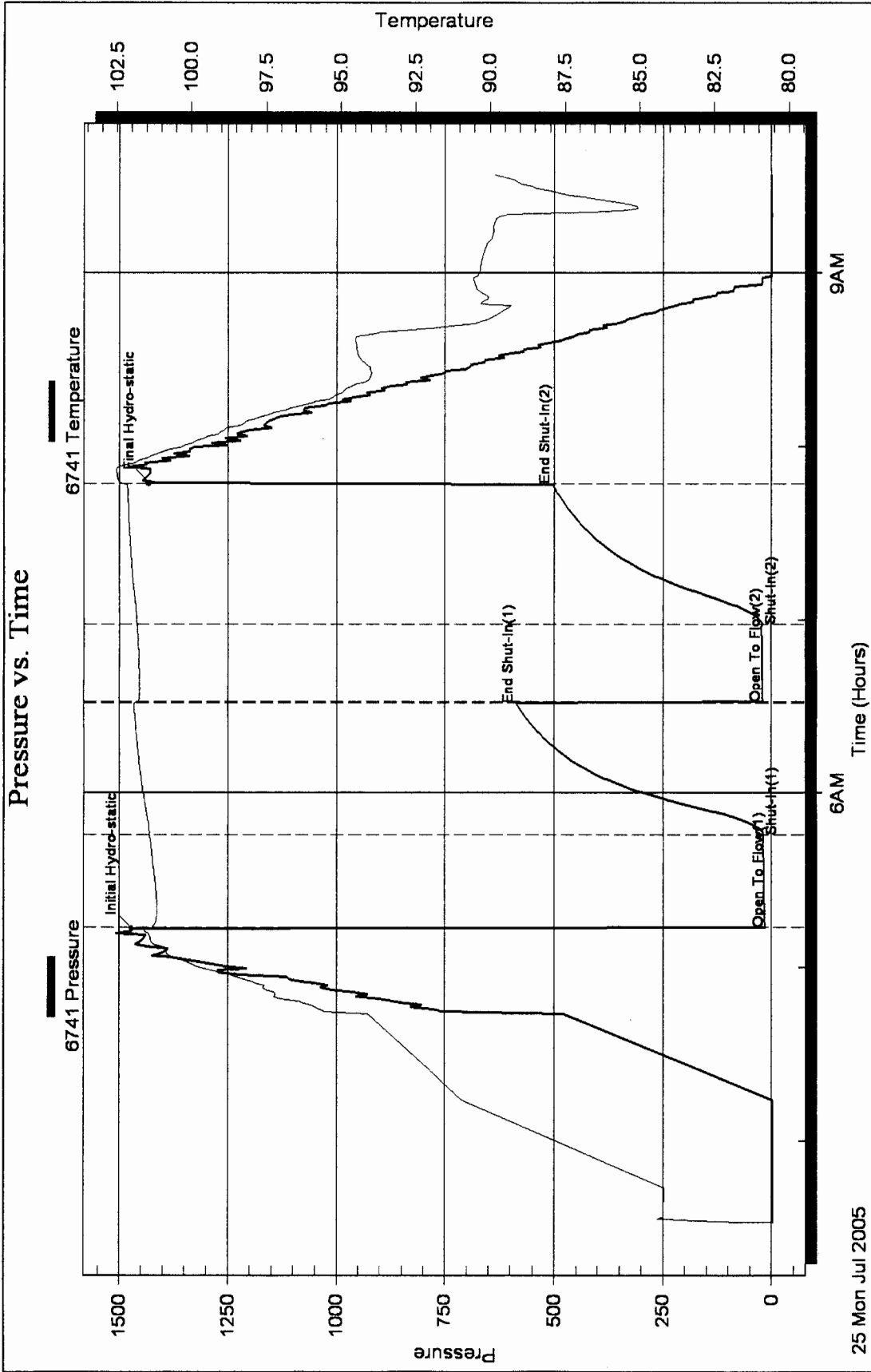
Serial #: 6741

Inside

Murfin Drilling Co. Inc.

27-12s-14w -Russell

DST Test Number: 6



RECEIVED  
 SEP 23 2005  
 KCC WICHITA

Trilobite Testing, Inc

Ref. No: 22056

Printed: 2005.07.29 @ 12:20:16 Page 5