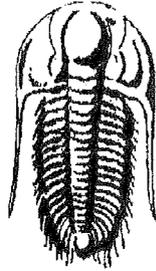


15-039-21063

7-3s-26w

IND



**TRILOBITE  
TESTING, INC.**

KCC  
OCT 29 2008  
CONFIDENTIAL

### DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Paul Gunzelman

**7 3S 26W Decatur KS**

**Montgomery # 2-7**

Start Date: 2008.07.04 @ 02:50:00

End Date: 2008.07.04 @ 10:23:09

Job Ticket #: 32062                      DST #: 1

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

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**OCT 30 2008**

CONSERVATION DIVISION  
WICHITA, KS

Murfin Drilling Company

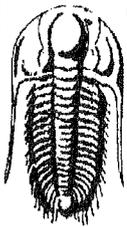
Montgomery # 2-7

7 3S 26W Decatur KS

DST # 1

Toronto, Lansing "A"

2008.07.04



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Paul Gunzelman

**Montgomery # 2-7**

**7 3S 26W Decatur KS**

Job Ticket: 32062

DST#: 1

Test Start: 2008.07.04 @ 02:50:00

## GENERAL INFORMATION:

Formation: **Toronto, Lansing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:35:50

Time Test Ended: 10:23:09

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **3476.00 ft (KB) To 3534.00 ft (KB) (TVD)**

Total Depth: 3534.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2576.00 ft (KB)

2571.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8352**

**Inside**

Press@RunDepth: 93.72 psig @ 3477.00 ft (KB)

Start Date: 2008.07.04

End Date:

2008.07.04

Start Time: 02:50:02

End Time:

10:23:10

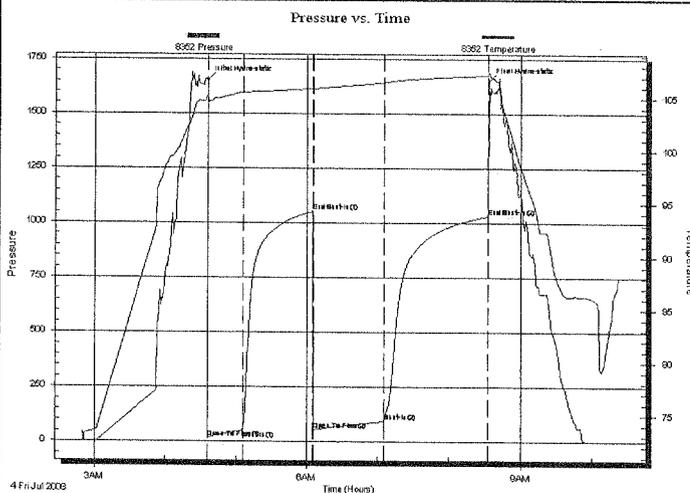
Capacity: 7000.00 psig

Last Calib.: 2008.07.04

Time On Btm: 2008.07.04 @ 04:35:30

Time Off Btm: 2008.07.04 @ 08:34:09

**TEST COMMENT:** IF Weak blow slowly built to 4" in bucket  
ISI Bled off no blow back  
FF Very weak blow slowly built to 3" in bucket  
FSI Bled off no blow back



## PRESSURE SUMMARY

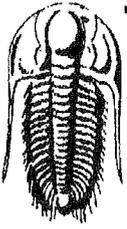
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.43	105.16	Initial Hydro-static
1	15.39	104.39	Open To Flow (1)
30	49.53	105.55	Shut-In(1)
90	1053.07	105.93	End Shut-In(1)
91	55.09	105.69	Open To Flow (2)
151	93.72	106.49	Shut-In(2)
238	1031.83	107.17	End Shut-In(2)
239	1650.76	107.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil 100%O	0.02
20.00	OM 25%O 75%M	0.10
62.00	OCM 10%O 90%M	0.30
63.00	OWCM 5%O 20%W 75%M	0.31
0.00	Chlorides = 38,500 ppm	0.00

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Company

**Montgomery # 2-7**

250 N Water Ste 300  
Wichita KS 67202

**7 3S 26W Decatur KS**

ATTN: Paul Gunzelman

Job Ticket: 32062

**DST#: 1**

Test Start: 2008.07.04 @ 02:50:00

**Tool Information**

Drill Pipe:	Length: 2920.00 ft	Diameter: 3.80 inches	Volume: 40.96 bbl	Tool Weight: 2500.00 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: 545.00 ft	Diameter: 2.25 inches	Volume: 2.68 bbl	Weight to Pull Loose: 95000.00 lb
		<u>Total Volume:</u>	<u>43.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	3476.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

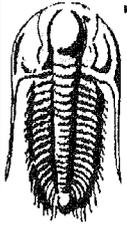
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3458.00	
Hydraulic tool	5.00			3463.00	
Safety Joint	3.00			3466.00	
Packer	5.00			3471.00	23.00 Bottom Of Top Packer
Packer	5.00			3476.00	
Stubb	1.00			3477.00	
Recorder	0.00	8352	inside	3477.00	
Recorder	0.00	6799	inside	3477.00	
Perforations	22.00			3499.00	
Blank Spacing	32.00			3531.00	
Bullnose	3.00			3534.00	58.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**

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WICHITA, KS



**TRILOBITE**  
TESTING, INC

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Company

**Montgomery # 2-7**

250 N Water Ste 300  
Wichita KS 67202

**7 3S 26W Decatur KS**

Job Ticket: 32062

**DST#: 1**

ATTN: Paul Gunzelman

Test Start: 2008.07.04 @ 02:50:00

**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:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	Clean Oil 100%O	0.025
20.00	OM 25%O 75%M	0.098
62.00	OCM 10%O 90%M	0.305
63.00	OWCM 5%O 20%W 75%M	0.310
0.00	Chlorides = 38,500 ppm	0.000

Total Length: 150.00 ft

Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

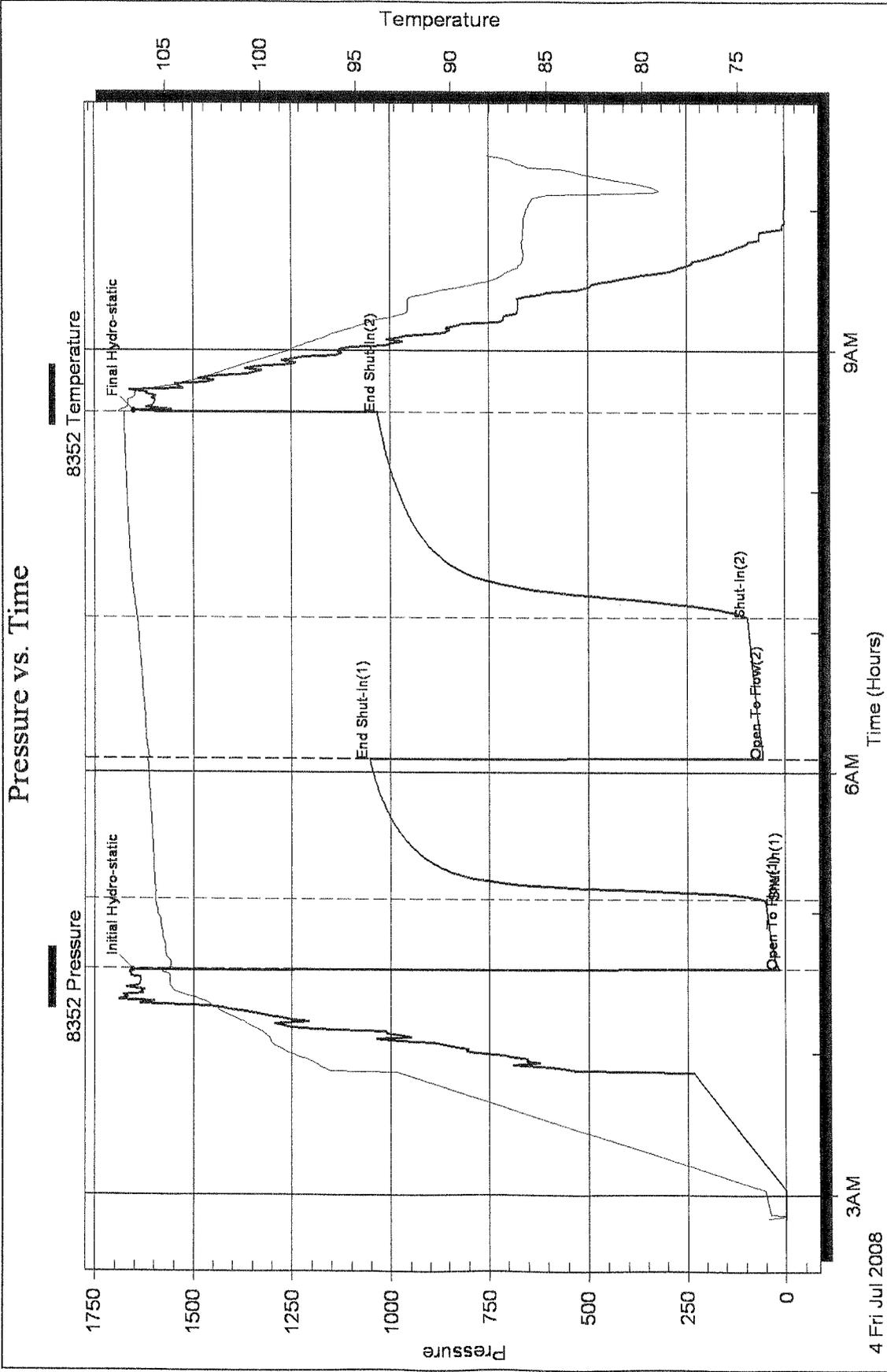
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

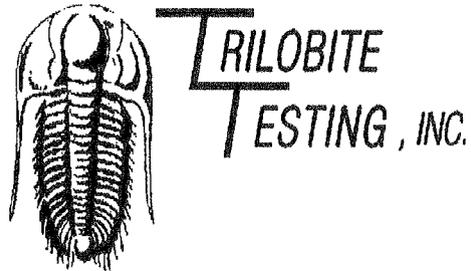
### Pressure vs. Time



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WICHITA, KS



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Paul Gunzelman

**7 3S 26W Decatur KS**

**Montgomery # 2-7**

Start Date: 2008.07.04 @ 15:30:00

End Date: 2008.07.04 @ 22:37:20

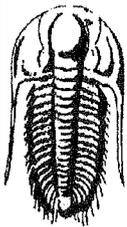
Job Ticket #: 32063                      DST #: 2

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WICHITA, KS



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Paul Gunzelman

**Montgomery # 2-7**

**7 3S 26W Decatur KS**

Job Ticket: 32063

**DST#: 2**

Test Start: 2008.07.04 @ 15:30:00

## GENERAL INFORMATION:

Formation: **Lansing "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:57:20

Time Test Ended: 22:37:20

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

**Interval: 3533.00 ft (KB) To 3553.00 ft (KB) (TVD)**

Total Depth: 3553.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2576.00 ft (KB)

2571.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8352**

**Inside**

Press@RunDepth: 229.51 psig @ 3534.00 ft (KB)

Start Date: 2008.07.04

End Date: 2008.07.04

Start Time: 15:30:02

End Time: 22:37:19

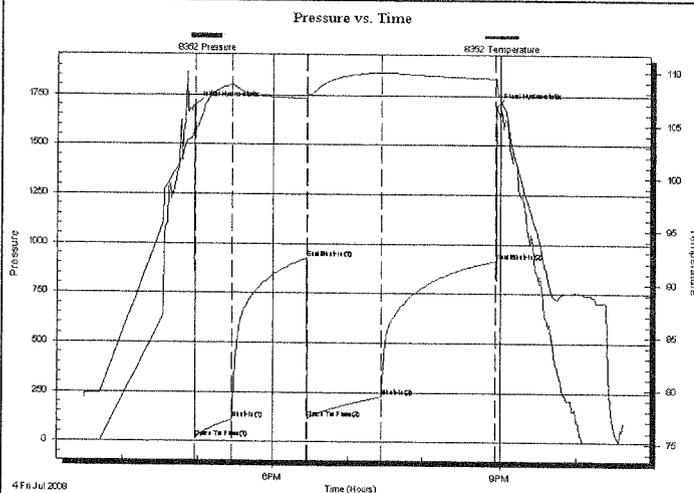
Capacity: 7000.00 psig

Last Calib.: 2008.07.04

Time On Btm: 2008.07.04 @ 16:57:00

Time Off Btm: 2008.07.04 @ 20:57:30

**TEST COMMENT:** IF Fair blow built to 9" in bucket  
ISI Bled off no blow back  
FF Fair blow built to 9.5" in bucket  
FSI Bled off no blow back



## PRESSURE SUMMARY

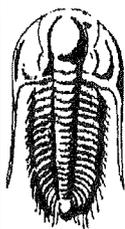
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.37	104.74	Initial Hydro-static
1	18.37	104.24	Open To Flow (1)
31	111.22	108.79	Shut-In(1)
91	925.60	107.52	End Shut-In(1)
91	116.30	107.48	Open To Flow (2)
151	229.51	109.95	Shut-In(2)
240	914.17	109.43	End Shut-In(2)
241	1694.36	109.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
455.00	SMC SW 5%M 95%W	2.24
0.00	Chlorides = 52,500 ppm	0.00

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company

**Montgomery # 2-7**

250 N Water Ste 300  
Wichita KS 67202

**7 3S 26W Decatur KS**

ATTN: Paul Gunzelman

Job Ticket: 32063

**DST#: 2**

Test Start: 2008.07.04 @ 15:30:00

## Tool Information

Drill Pipe:	Length: 2983.00 ft	Diameter: 3.80 inches	Volume: 41.84 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 545.00 ft	Diameter: 2.25 inches	Volume: 2.68 bbl	Weight to Pull Loose: 95000.00 lb
		<b>Total Volume:</b>	<b>44.52 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	3533.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

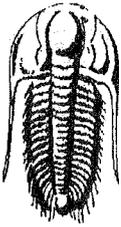
## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3515.00	
Hydraulic tool	5.00			3520.00	
Safety Joint	3.00			3523.00	
Packer	5.00			3528.00	23.00 Bottom Of Top Packer
Packer	5.00			3533.00	
Stubb	1.00			3534.00	
Recorder	0.00	8352	Inside	3534.00	
Recorder	0.00	6799	Inside	3534.00	
Perforations	16.00			3550.00	
Bullnose	3.00			3553.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Montgomery # 2-7

250 N Water Ste 300  
Wichita KS 67202

7 3S 26W Decatur KS

ATTN: Paul Gunzelman

Job Ticket: 32063

DST#: 2

Test Start: 2008.07.04 @ 15:30:00

## 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:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
455.00	SMC SW 5%M 95%W	2.238
0.00	Chlorides = 52,500 ppm	0.000

Total Length: 455.00 ft      Total Volume: 2.238 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

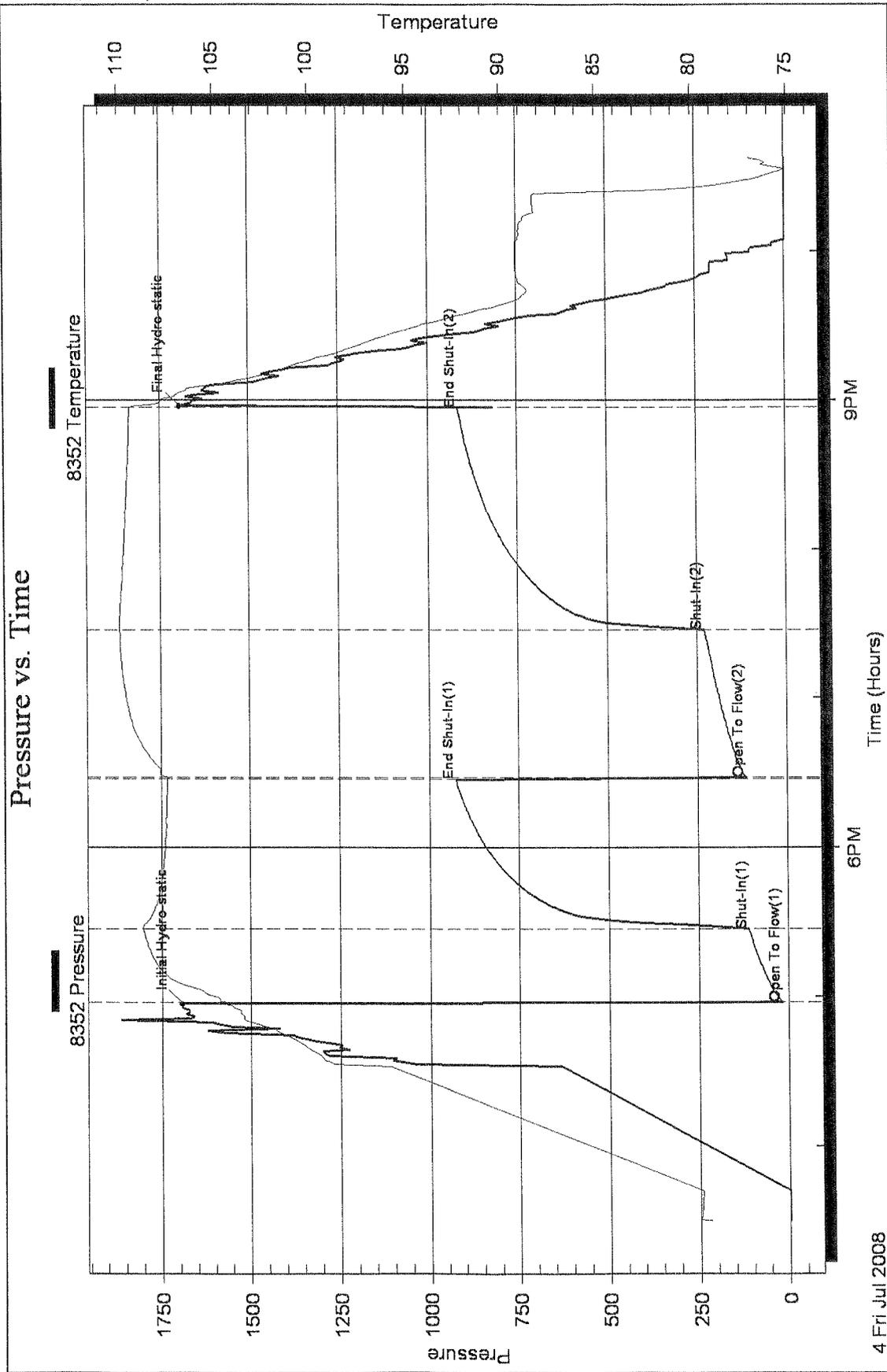
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

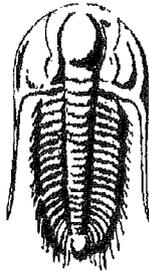
# Pressure vs. Time



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WICHITA, KS



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Paul Gunzelman

**7 3S 26W Decatur KS**

**Montgomery # 2-7**

Start Date: 2008.07.05 @ 08:00:00

End Date: 2008.07.05 @ 15:53:00

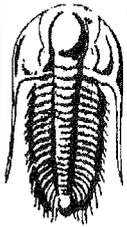
Job Ticket #: 32064                      DST #: 3

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WICHITA, KS

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Paul Gunzelman

**Montgomery # 2-7**

**7 3S 26W Decatur KS**

Job Ticket: 32064

**DST#: 3**

Test Start: 2008.07.05 @ 08:00:00

## GENERAL INFORMATION:

Formation: **Lansing "C-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:53:00

Time Test Ended: 15:53:00

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

**Interval: 3561.00 ft (KB) To 3618.00 ft (KB) (TVD)**

Total Depth: 3534.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2576.00 ft (KB)

2571.00 ft (CF)

KB to GRVCF: 5.00 ft

**Serial #: 8352**

**Inside**

Press@RunDepth: 144.32 psig @ 3562.00 ft (KB)

Start Date: 2008.07.05

End Date:

2008.07.05

Start Time: 08:00:02

End Time:

15:53:00

Capacity: 7000.00 psig

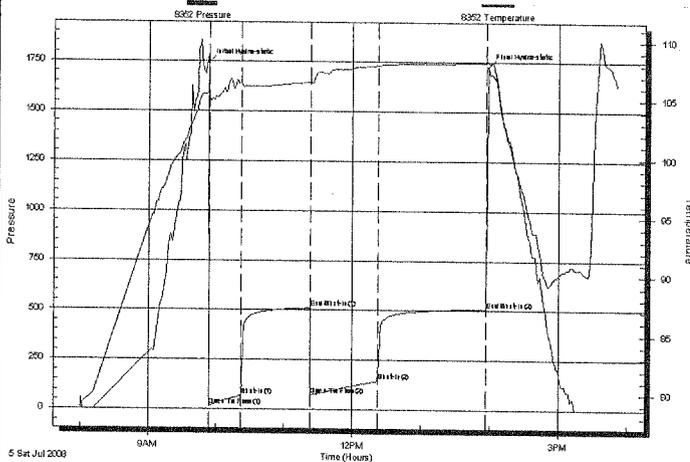
Last Calib.: 2008.07.05

Time On Btm: 2008.07.05 @ 09:52:50

Time Off Btm: 2008.07.05 @ 13:58:20

**TEST COMMENT:** IF Weak blow built to 4.25 " in bucket  
ISI Bled off no blow back  
FF Weak blow built to 4.75 " in bucket  
FSI Bled off no blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.04	105.65	Initial Hydro-static
1	15.29	104.85	Open To Flow (1)
30	70.33	106.54	Shut-In(1)
91	510.52	106.51	End Shut-In(1)
91	71.60	106.44	Open To Flow (2)
150	144.32	107.95	Shut-In(2)
245	508.93	108.23	End Shut-In(2)
246	1725.41	108.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	DMw/slight Ospots 100%M	0.44
60.00	SWCMw/trace O 4%W 96%M	0.30
60.00	WMw/trace O 35%W 65%M	0.30
60.00	MWw/traceO 48%M 52%W	0.30
0.00	Chlorides = 39,000 ppm	0.00

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Company

**Montgomery # 2-7**

250 N Water Ste 300  
Wichita KS 67202

**7 3S 26W Decatur KS**

ATTN: Paul Gunzelman

Job Ticket: 32064

**DST#: 3**

Test Start: 2008.07.05 @ 08:00:00

**Tool Information**

Drill Pipe:	Length: 3015.00 ft	Diameter: 3.80 inches	Volume: 42.29 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 545.00 ft	Diameter: 2.25 inches	Volume: 2.68 bbl	Weight to Pull Loose: 90000.00 lb
		<b>Total Volume:</b>	<b>44.97 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	3561.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

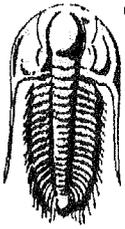
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3543.00	
Hydraulic tool	5.00			3548.00	
Safety Joint	3.00			3551.00	
Packer	5.00			3556.00	23.00 Bottom Of Top Packer
Packer	5.00			3561.00	
Stubb	1.00			3562.00	
Recorder	0.00	8352	Inside	3562.00	
Recorder	0.00	6799	Inside	3562.00	
Perforations	21.00			3583.00	
Blank Spacing	32.00			3615.00	
Bullnose	3.00			3618.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 80.00**

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WICHITA, KS



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Montgomery # 2-7

250 N Water Ste 300  
Wichita KS 67202

7 3S 26W Decatur KS

ATTN: Paul Gunzelman

Job Ticket: 32064

DST#: 3

Test Start: 2008.07.05 @ 08:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 5.99 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	DMw/slight Ospots 100%M	0.443
60.00	SWCMw/trace O 4%W 96%M	0.295
60.00	VMw/trace O 35%W 65%M	0.295
60.00	MMw/traceO 48%M 52%W	0.295
0.00	Chlorides = 39,000 ppm	0.000

Total Length: 270.00 ft

Total Volume: 1.328 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

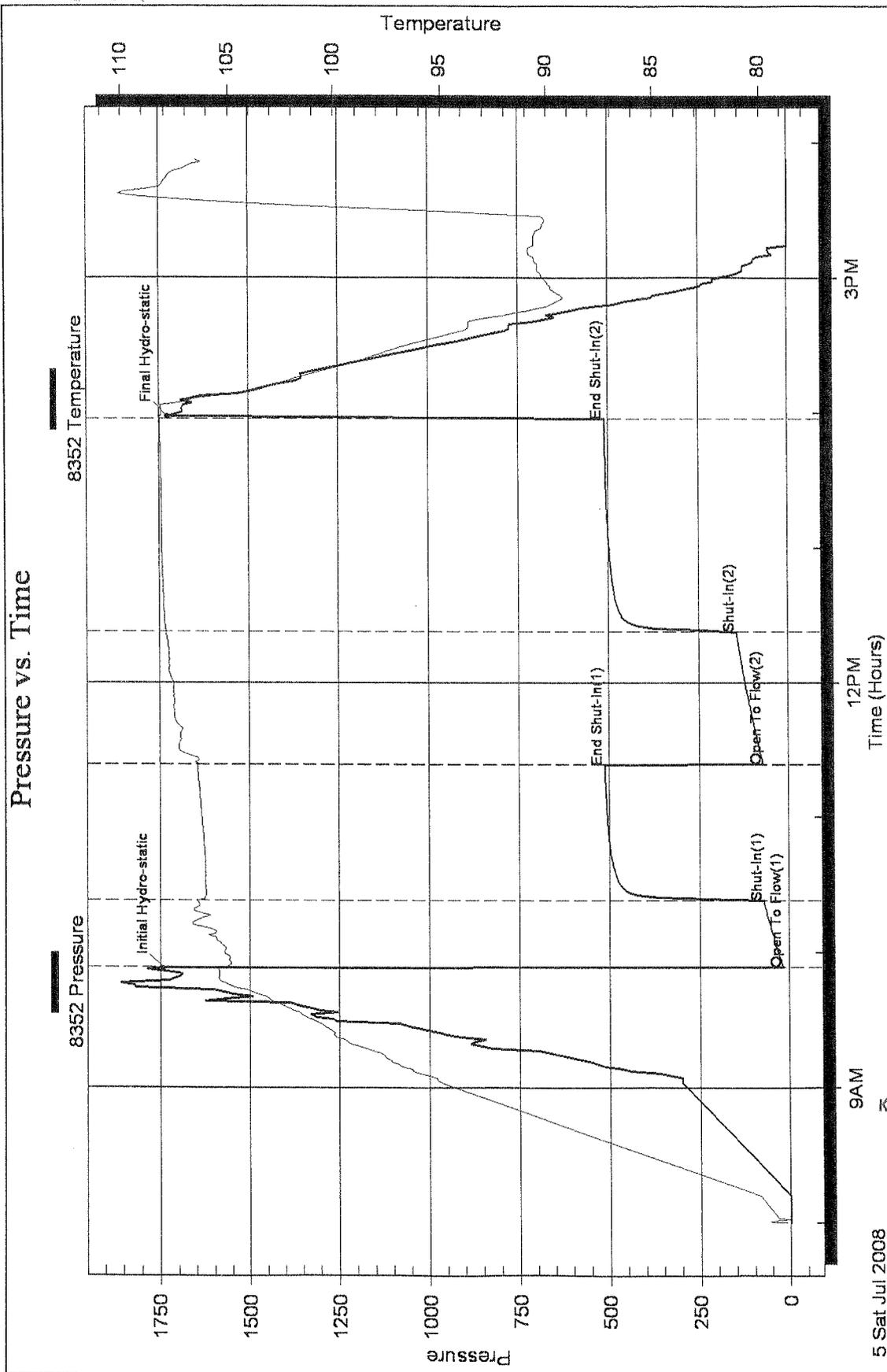
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



5 Sat Jul 2008

9AM

12PM

3PM

Time (Hours)

Pressure

Temperature

8352 Pressure

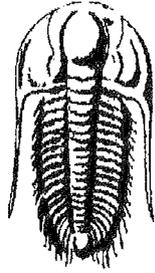
8352 Temperature

Trilobite Testing, Inc  
 WICHITA, KS  
 CONSERVATION DIVISION  
 KANSAS CORPORATION COMMISSION

OCT 30 2008

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Ref. No: 32064



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Paul Gunzelman

**7 3S 26W Decatur KS**

**Montgomery # 2-7**

Start Date: 2008.07.06 @ 01:20:00

End Date: 2008.07.06 @ 09:34:30

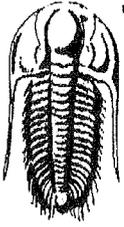
Job Ticket #: 32065                      DST #: 4

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

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**OCT 30 2008**

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300  
Wichita KS 67202

ATTN: Paul Gunzelman

**Montgomery # 2-7**

**7 3S 26W Decatur KS**

Job Ticket: 32065

DST#: 4

Test Start: 2008.07.06 @ 01:20:00

## GENERAL INFORMATION:

Formation: **Lansing "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:18:30

Time Test Ended: 09:34:30

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **3615.00 ft (KB) To 3706.00 ft (KB) (TVD)**

Total Depth: 3706.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2576.00 ft (KB)

2571.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8352**

**Inside**

Press@RunDepth: 114.61 psig @ 3616.00 ft (KB)

Start Date: 2008.07.06

End Date: 2008.07.06

Start Time: 01:20:02

End Time: 09:34:30

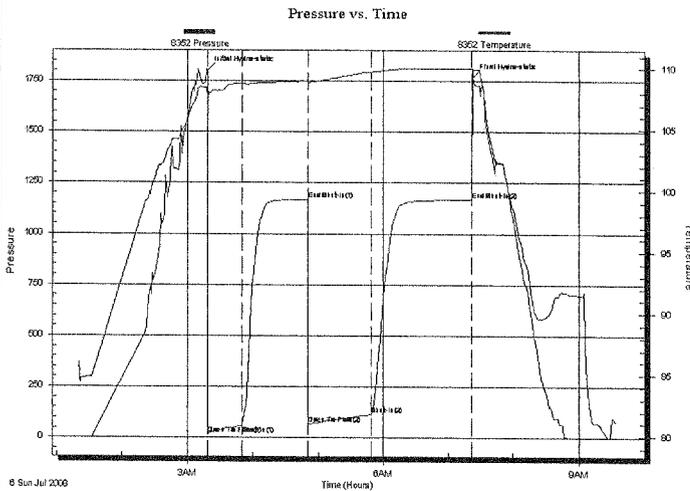
Capacity: 7000.00 psig

Last Calib.: 2008.07.06

Time On Btm: 2008.07.06 @ 03:18:20

Time Off Btm: 2008.07.06 @ 07:23:20

**TEST COMMENT:** IF Weak blow built to 5.5 " in bucket  
ISI Bled off no blow back  
FF Weak blow built to 4.75 " in bucket  
FSI Bled off no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1800.12	108.50	Initial Hydro-static
1	17.78	107.56	Open To Flow (1)
32	58.25	108.79	Shut-In(1)
92	1168.23	109.01	End Shut-In(1)
92	67.50	108.81	Open To Flow (2)
151	114.61	109.74	Shut-In(2)
244	1167.91	110.00	End Shut-In(2)
245	1770.18	109.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	Clean Oil 100%o	0.32
45.00	GOCM 5%G 8%O 87%M	0.22
60.00	GWOCM 5%G 5%W 10%O 80%M	0.30
60.00	OCWM 5%O 40%M 55%W	0.30
0.00	Corrected gravity = 32	0.00
0.00	Chlorides = 39,000 ppm	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company

**Montgomery # 2-7**

250 N Water Ste 300  
Wichita KS 67202

**7 3S 26W Decatur KS**

ATTN: Paul Gunzelman

Job Ticket: 32065

**DST#: 4**

Test Start: 2008.07.06 @ 01:20:00

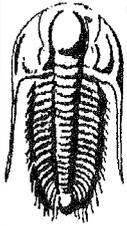
**Tool Information**

Drill Pipe:	Length: 3077.00 ft	Diameter: 3.80 inches	Volume: 43.16 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 545.00 ft	Diameter: 2.25 inches	Volume: 2.68 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume: 45.84 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	3615.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	114.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3597.00	
Hydraulic tool	5.00			3602.00	
Safety Joint	3.00			3605.00	
Packer	5.00			3610.00	23.00 Bottom Of Top Packer
Packer	5.00			3615.00	
Stubb	1.00			3616.00	
Recorder	0.00	8352	Inside	3616.00	
Recorder	0.00	6799	Inside	3616.00	
Perforations	23.00			3639.00	
Blank Spacing	64.00			3703.00	
Bullnose	3.00			3706.00	91.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>114.00</b>				

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**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company

**Montgomery # 2-7**

250 N Water Ste 300  
Wichita KS 67202

**7 3S 26W Decatur KS**

Job Ticket: 32065

**DST#: 4**

ATTN: Paul Gunzelman

Test Start: 2008.07.06 @ 01:20:00

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Clean Oil 100%o	0.320
45.00	GOCM 5%G 8%O 87%M	0.221
60.00	GWOCM 5%G 5%W 10%O 80%M	0.295
60.00	OCVM 5%O 40%M 55%W	0.295
0.00	Corrected gravity = 32	0.000
0.00	Chlorides = 39,000 ppm	0.000

Total Length: 230.00 ft

Total Volume: 1.131 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

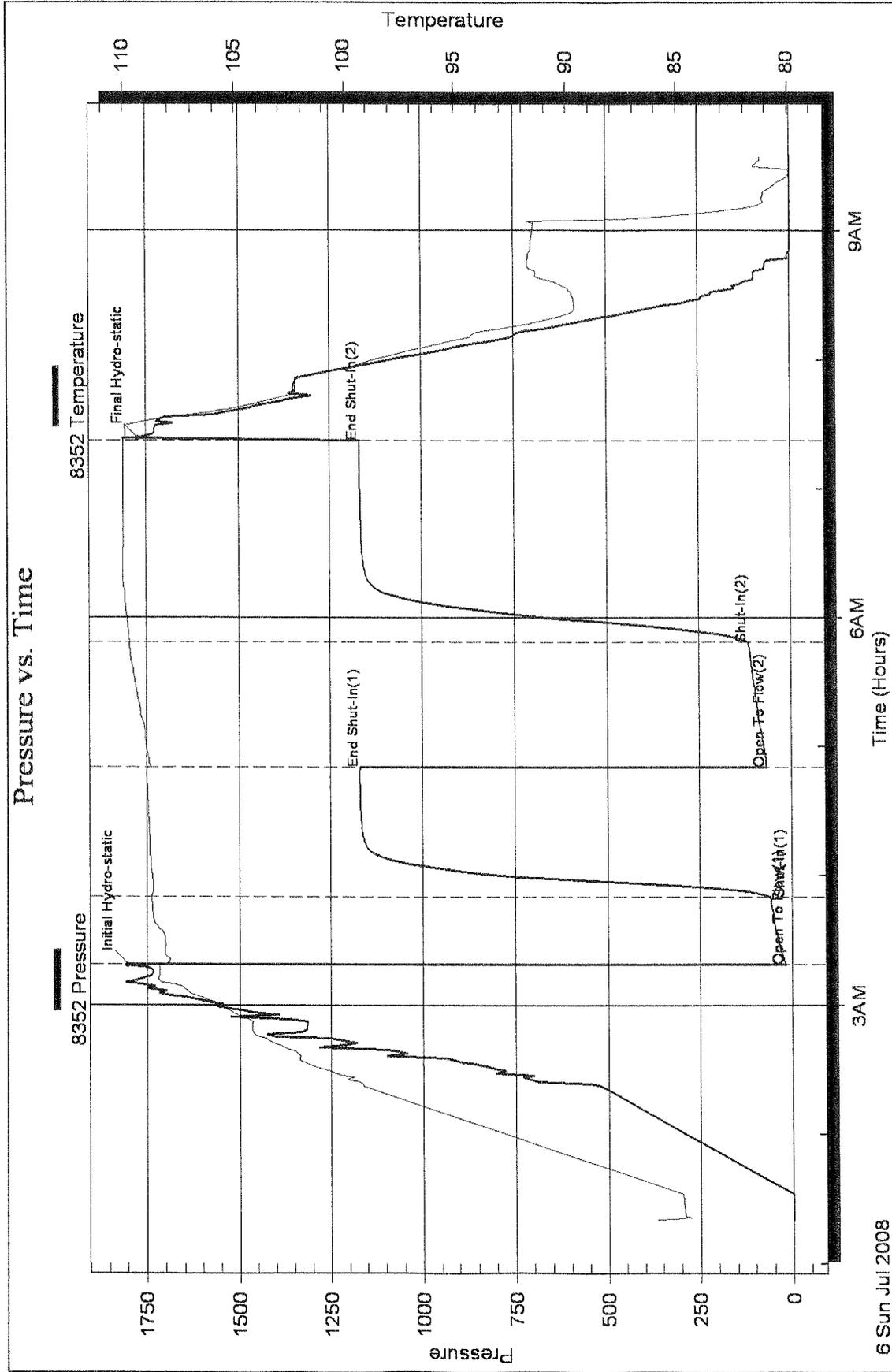
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



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