

15-039-21027

29-5s-29w

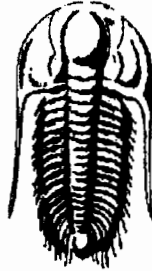
IND

CONFIDENTIAL

FEB 25 2008

KCC

CONFIDENTIAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

29 5 29 Decatur KS

Shuler # 2-29

Start Date: 2007.10.30 @ 12:12:09

End Date: 2007.10.30 @ 20:25:39

Job Ticket #: 30620 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

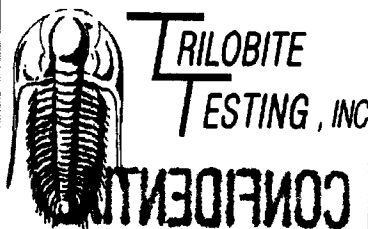
ph: 785-625-4778 fax: 785-625-5620

Murfin Drilling Co Inc
Shuler # 2-29
29 5 29 Decatur KS
DST # 1
Toronto/C
2007.10.30

Printed: 2007.11.08 @ 10:29:32 Page 1
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KANSAS CORPORATION COMMISSION

FEB 26 2008

CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N Water Ste 300
 Wichita KS 67202
 ATTN: Scott Robinson

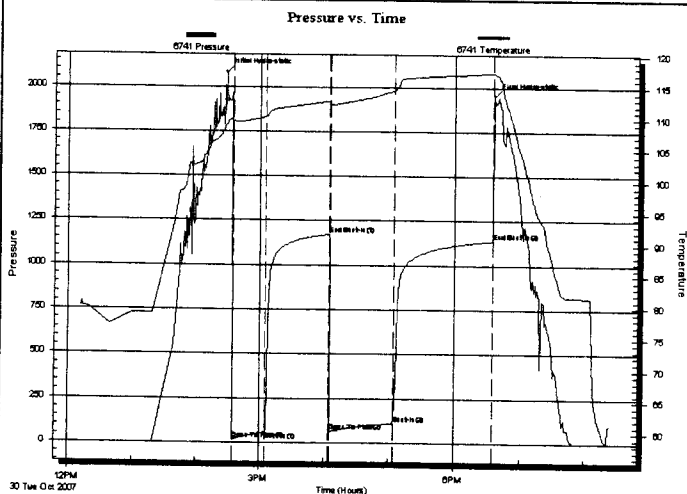
Shuler # 2-29
29 5 29 Decatur KS
 Job Ticket: 30620 **DST#: 1**
 Test Start: 2007.10.30 @ 12:12:09

GENERAL INFORMATION:

Formation: **Toronto/C**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: 14:34:39 Tester: **Dan Bangle**
 Time Test Ended: 20:25:39 Unit No: **38**
 Interval: **3823.00 ft (KB) To 3903.00 ft (KB) (TVD)**
 Total Depth: **3903.00 ft (KB) (TVD)**
 Reference Elevations: **2796.00 ft (KB)**
2791.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 KB to GR/CF: **5.00 ft**

Serial #: 6741 Inside
 Press@RunDepth: **107.17 psig @ 3826.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2007.10.30** End Date: **2007.10.30** Last Calib.: **2007.10.30**
 Start Time: **12:12:11** End Time: **20:25:39** Time On Btm: **2007.10.30 @ 14:28:29**
 Time Off Btm: **2007.10.30 @ 18:35:54**

TEST COMMENT: IF Weak building to 1 1/4 " in 20 min - then decreasing to 1 1/8 " in 30 min
 FF Weak steady 1/4 " blow



PRESSURE SUMMARY

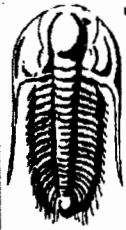
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.14	109.06	Initial Hydro-static
7	15.02	109.39	Open To Flow (1)
38	58.29	110.28	Shut-in (1)
97	1171.90	112.77	End Shut-in (1)
97	62.26	112.47	Open To Flow (2)
156	107.17	114.45	Shut-in (2)
247	1136.77	117.32	End Shut-in (2)
248	1951.57	117.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM 40%W 60%M	0.30
150.00	Mud w/few Oil spots	1.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Shuler # 2-29

250 N Water Ste 300
Wichita KS 67202

29 5 29 Decatur KS

Job Ticket: 30620

DST#: 1

ATTN: Scott Robinson

Test Start: 2007.10.30 @ 12:12:09

Tool Information

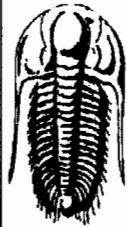
Drill Pipe:	Length: 3642.00 ft	Diameter: 3.80 inches	Volume: 51.09 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3823.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	109.00 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			3795.00	
Shut In Tool	5.00			3800.00	
Hydraulic tool	5.00			3805.00	
Jars	5.00			3810.00	
Safety Joint	3.00			3813.00	
Packer	5.00			3818.00	29.00 Bottom Of Top Packer
Packer	5.00			3823.00	
Stubb	1.00			3824.00	
Perforations	1.00			3825.00	
Change Over Sub	1.00			3826.00	
Recorder	0.00	6741	Inside	3826.00	
Drill Pipe	62.00			3888.00	
Change Over Sub	1.00			3889.00	
Recorder	0.00	13254	Outside	3889.00	
Perforations	11.00			3900.00	
Bullnose	3.00			3903.00	80.00 Bottom Packers & Anchor
Total Tool Length:	109.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Shuler # 2-29

250 N Water Ste 300
Wichita KS 67202

29 5 29 Decatur KS

Job Ticket: 30620

DST#: 1

ATTN: Scott Robinson

Test Start: 2007.10.30 @ 12:12:09

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:

60000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	WCM 40%W 60%M	0.295
150.00	Mud w/few Oil spots	1.020

Total Length: 210.00 ft

Total Volume: 1.315 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

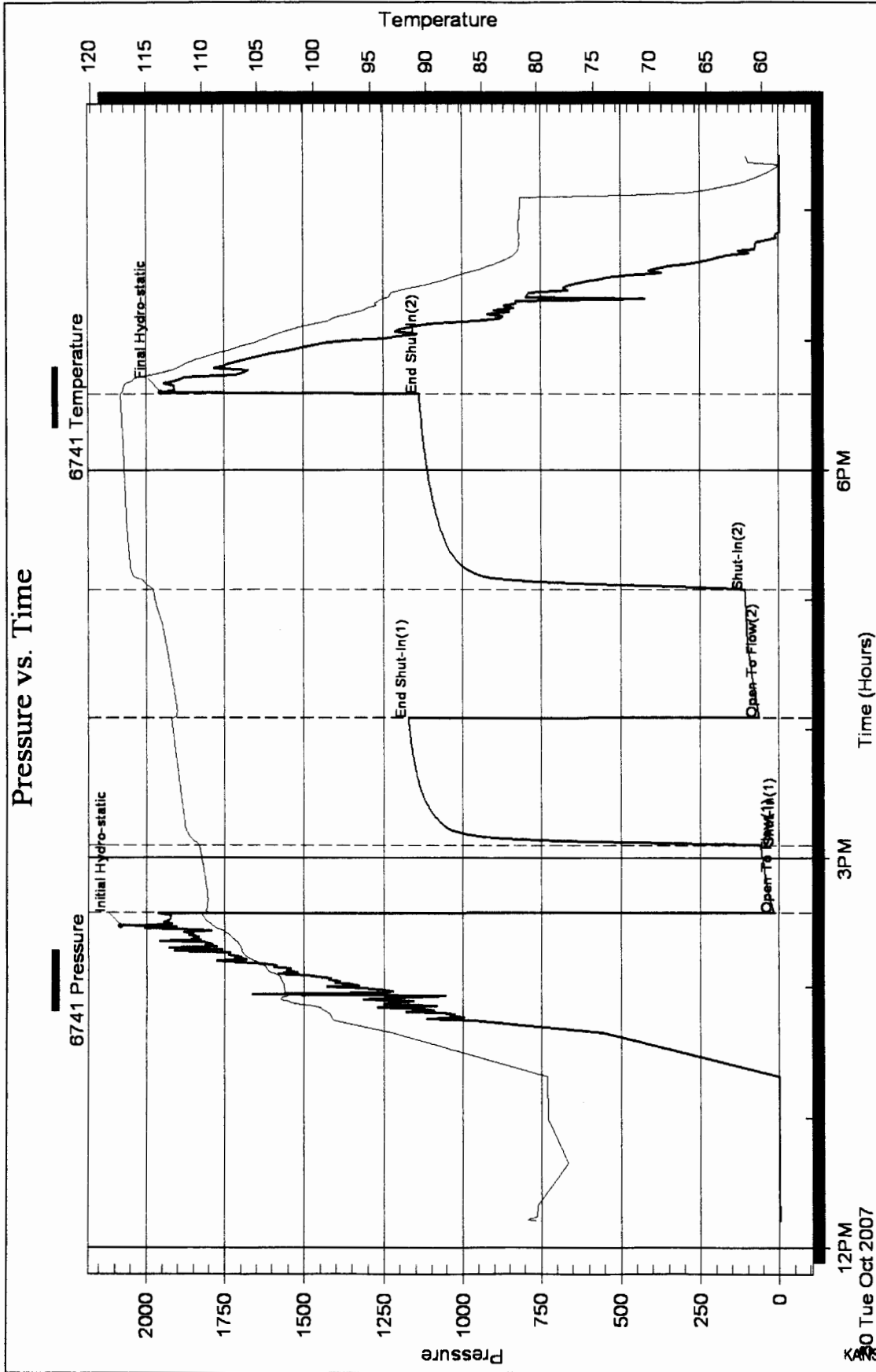
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .12 @ 80 = 60000ppm

Pressure vs. Time



12PM
 3PM
 6PM
 Tue Oct 2007

6741 Pressure

6741 Temperature

Initial Hydro-static

Final Hydro-static

End Shut-In(1)

Open To Flow(1)

Shut-In(2)

Open To Flow(2)

End Shut-In(2)

Pressure

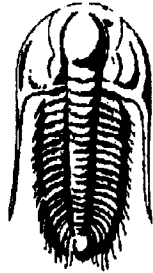
Temperature

Time (Hours)

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 Testing, Inc

FEB 26 2008

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

29 5 29 Decatur KS

Shuler # 2-29

Start Date: 2007.10.31 @ 08:05:58

End Date: 2007.10.31 @ 15:22:43

Job Ticket #: 30621 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

Shuler # 2-29

29 5 29 Decatur KS

DST # 2

E-F

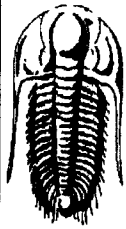
LKC

2007.10.31

Printed: 2007.11.08 @ 10:38:34 **RECEIVED**
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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

Shuler # 2-29

29 5 29 Decatur KS

Job Ticket: 30621

DST#: 2

Test Start: 2007.10.31 @ 08:05:58

GENERAL INFORMATION:

Formation: **E-F LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:13:48
 Time Test Ended: 15:22:43

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

Interval: **3921.00 ft (KB) To 3950.00 ft (KB) (TVD)**
 Total Depth: 3950.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2796.00 ft (KB)
 2791.00 ft (CF)
 KB to GR/CF: 5.00 ft

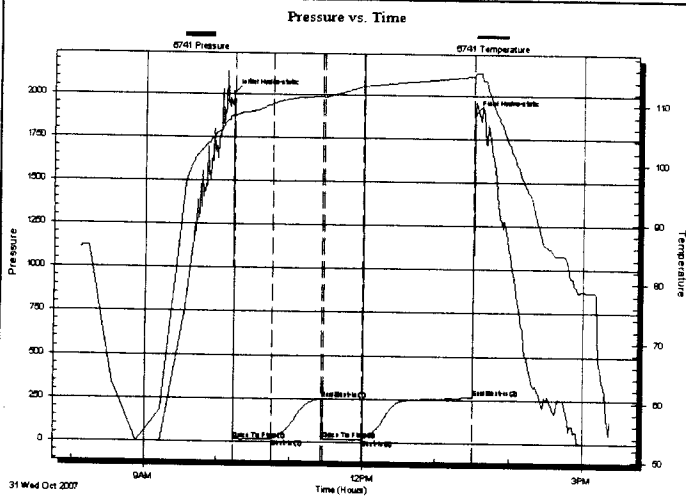
Serial #: 6741

Inside

Press@RunDepth: 18.66 psig @ 3922.00 ft (KB)
 Start Date: 2007.10.31 End Date: 2007.10.31
 Start Time: 08:06:00 End Time: 15:22:43

Capacity: 7000.00 psig
 Last Calib.: 2007.10.31
 Time On Btm: 2007.10.31 @ 10:13:08
 Time Off Btm: 2007.10.31 @ 13:30:43

TEST COMMENT: IF Weak 1/4 " blow died in 15 min
 FF No blow



PRESSURE SUMMARY

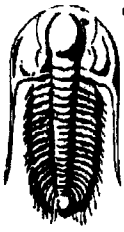
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.89	108.20	Initial Hydro-static
1	13.11	107.96	Open To Flow (1)
33	14.81	110.13	Shut-In(1)
74	250.39	111.37	End Shut-In(1)
75	14.67	111.21	Open To Flow (2)
107	18.66	113.12	Shut-In(2)
197	265.79	114.97	End Shut-In(2)
198	1890.25	115.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
9.00	OCM 10%O 90%M	0.04
1.00	CO	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Shuler # 2-29

250 N Water Ste 300
Wichita KS 67202

29 5 29 Decatur KS

ATTN: Scott Robinson

Job Ticket: 30621

DST#: 2

Test Start: 2007.10.31 @ 08:05:58

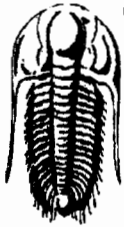
Tool Information

Drill Pipe:	Length: 3728.00 ft	Diameter: 3.80 inches	Volume: 52.29 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	53.17 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3921.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	58.00 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			3893.00	
Shut In Tool	5.00			3898.00	
Hydraulic tool	5.00			3903.00	
Jars	5.00			3908.00	
Safety Joint	3.00			3911.00	
Packer	5.00			3916.00	29.00 Bottom Of Top Packer
Packer	5.00			3921.00	
Stubb	1.00			3922.00	
Recorder	0.00	6741	Inside	3922.00	
Perforations	25.00			3947.00	
Recorder	0.00	13254	Outside	3947.00	
Bullnose	3.00			3950.00	29.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Shuler # 2-29

250 N Water Ste 300
Wichita KS 67202

29 5 29 Decatur KS

Job Ticket: 30621

DST#: 2

ATTN: Scott Robinson

Test Start: 2007.10.31 @ 08:05:58

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: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
9.00	OCM 10%O 90%M	0.044
1.00	CO	0.005

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

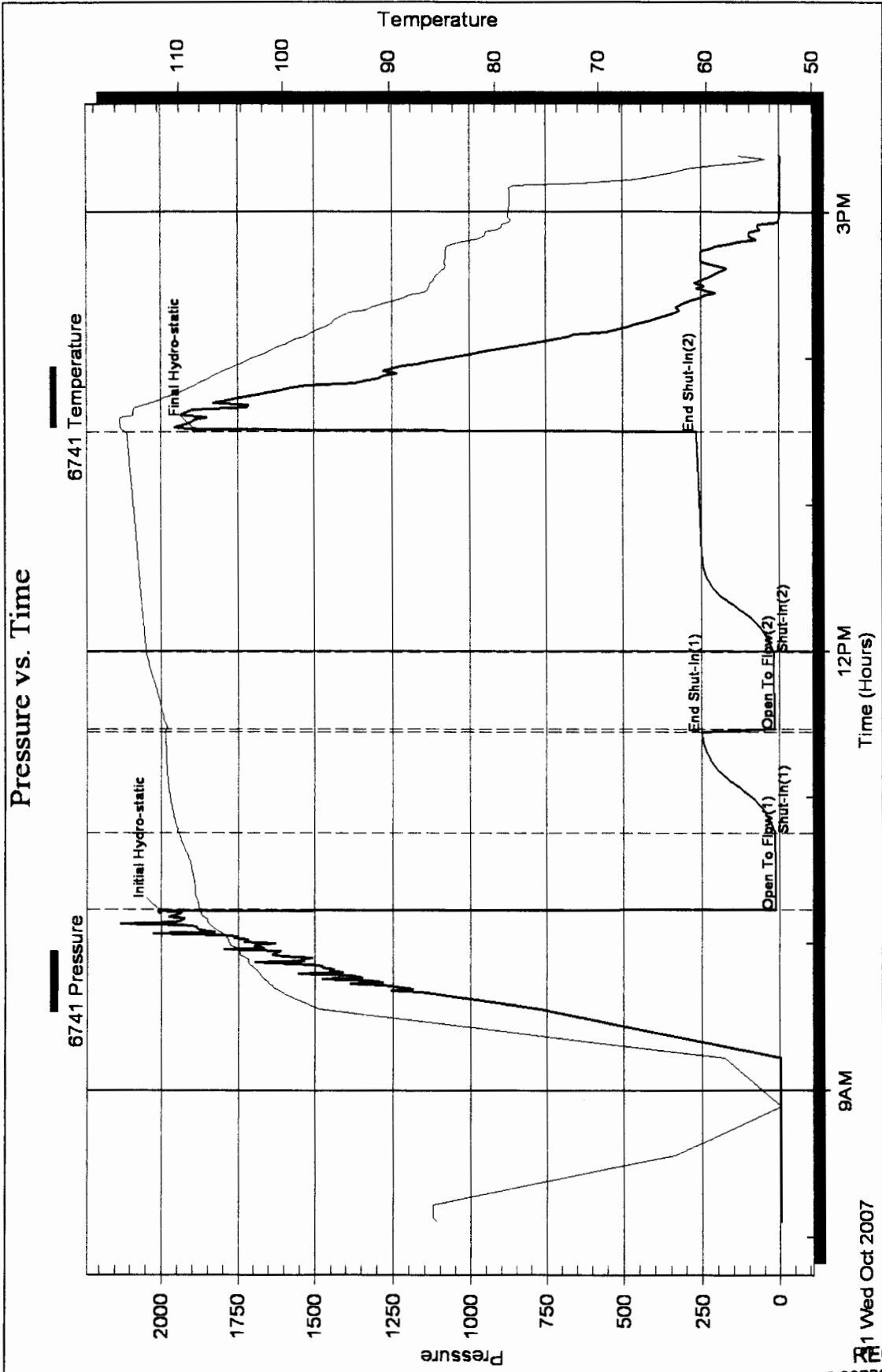
Inside

Murfin Drilling Co Inc

29 5 29 Decatur KS

DST Test Number: 2

Pressure vs. Time



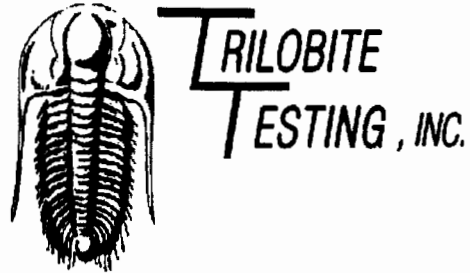
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CONSERVATION DIVISION
WICHITA, KS

Ref. No: 30621

Mobile Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

29 5 29 Decatur KS

Shuler # 2-29

Start Date: 2007.11.01 @ 00:20:27

End Date: 2007.11.01 @ 06:55:27

Job Ticket #: 30622 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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WICHITA, KS

Murfin Drilling Co Inc

Shuler # 2-29

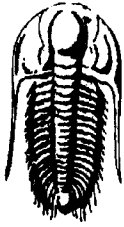
29 5 29 Decatur KS

DST # 3

G-H

LKC

2007.11.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202
ATTN: Scott Robinson

Shuler # 2-29
29 5 29 Decatur KS
Job Ticket: 30622 **DST#: 3**
Test Start: 2007.11.01 @ 00:20:27

GENERAL INFORMATION:

Formation: **G-H LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:05:17
Time Test Ended: 06:55:27

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

Interval: **3947.00 ft (KB) To 4000.00 ft (KB) (TVD)**
Total Depth: 4000.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2796.00 ft (KB)
2791.00 ft (CF)
KB to GR/CF: 5.00 ft

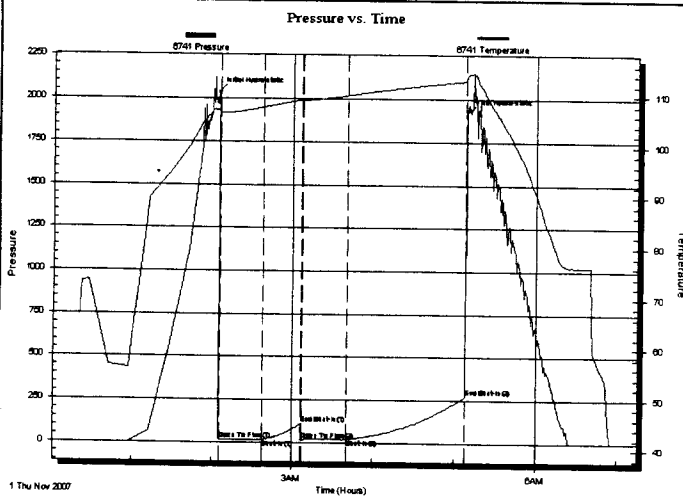
Serial #: 6741

Inside

Press@RunDepth: 20.94 psig @ 3950.00 ft (KB)
Start Date: 2007.11.01
Start Time: 00:20:29

Capacity: 7000.00 psig
Last Calib.: 2007.11.01
Time On Btm: 2007.11.01 @ 02:04:17
Time Off Btm: 2007.11.01 @ 05:08:27

TEST COMMENT: IF Weak 1/4 " blow died in 11 min
FF No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2039.04	107.21	Initial Hydro-static
1	15.23	106.78	Open To Flow (1)
34	16.77	107.74	Shut-In(1)
63	113.67	109.22	End Shut-In(1)
63	18.15	109.16	Open To Flow (2)
96	20.94	110.13	Shut-In(2)
184	271.29	113.07	End Shut-In(2)
185	1924.27	114.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	DM	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

Shuler # 2-29

250 N Water Ste 300
Wichita KS 67202

29 5 29 Decatur KS

ATTN: Scott Robinson

Job Ticket: 30622

DST#: 3

Test Start: 2007.11.01 @ 00:20:27

Tool Information

Drill Pipe: Length: 3760.00 ft	Diameter: 3.80 inches	Volume: 52.74 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe: Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar: Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 70000.00 lb
	Total Volume: 53.62 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB: 21.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer: 3947.00 ft			Final 50000.00 lb
Depth to Bottom Packer: ft			
Interval between Packers: 53.00 ft			
Tool Length: 82.00 ft			
Number of Packers: 2	Diameter: 6.75 inches		

Tool Comments:

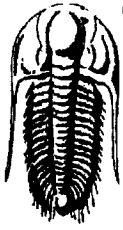
Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3919.00	
Shut In Tool	5.00			3924.00	
Hydraulic tool	5.00			3929.00	
Jars	5.00			3934.00	
Safety Joint	3.00			3937.00	
Packer	5.00			3942.00	29.00 Bottom Of Top Packer
Packer	5.00			3947.00	
Stubb	1.00			3948.00	
Perforations	1.00			3949.00	
Change Over Sub	1.00			3950.00	
Recorder	0.00	6741	Inside	3950.00	
Drill Pipe	31.00			3981.00	
Change Over Sub	1.00			3982.00	
Recorder	0.00	13254	Outside	3982.00	
Perforations	15.00			3997.00	
Bullnose	3.00			4000.00	53.00 Bottom Packers & Anchor
Total Tool Length:	82.00				

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Shuler # 2-29

250 N Water Ste 300
Wichita KS 67202

29 5 29 Decatur KS

Job Ticket: 30622

DST#: 3

ATTN: Scott Robinson

Test Start: 2007.11.01 @ 00:20:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
2.00	DM	0.010

Total Length: 2.00 ft

Total Volume: 0.010 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

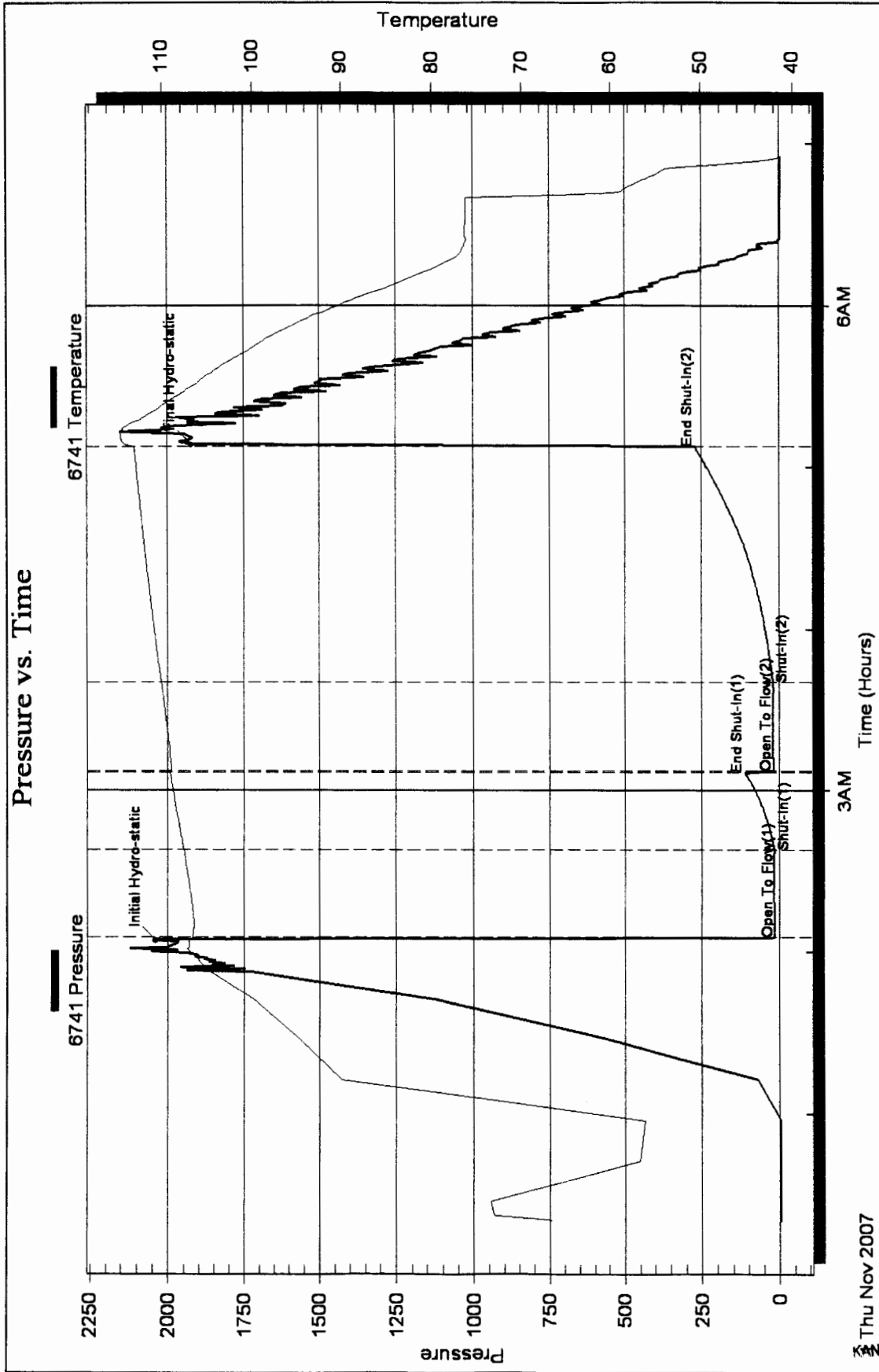
Inside

Murfin Drilling Co Inc

29 5 29 Decatur KS

DST Test Number: 3

Pressure vs. Time



Thu Nov 2007

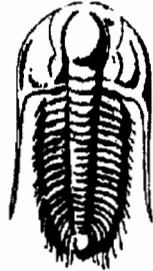
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FEB 26 2008

CONSERVATION DIVISION
WICHITA, KS

Ref. No: 30622

Testing, Inc



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

29 5 29 Decatur KS

Shuler # 2-29

Start Date: 2007.11.01 @ 16:13:05

End Date: 2007.11.01 @ 23:28:35

Job Ticket #: 30623 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

Shuler # 2-29

29 5 29 Decatur KS

DST # 4

J-K

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202
ATTN: Scott Robinson

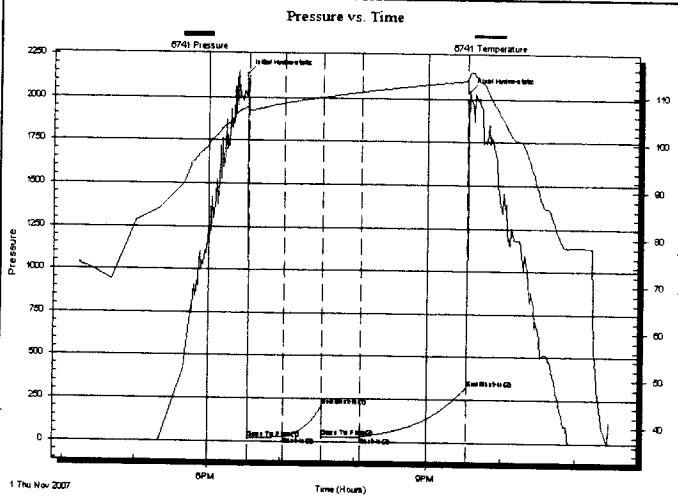
Shuler # 2-29
29 5 29 Decatur KS
Job Ticket: 30623 **DST#: 4**
Test Start: 2007.11.01 @ 16:13:05

GENERAL INFORMATION:

Formation: **J-K**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 18:32:35
Time Test Ended: 23:28:35
Test Type: **Conventional Bottom Hole**
Tester: **Dan Bangle**
Unit No: **38**
Interval: **3992.00 ft (KB) To 4060.00 ft (KB) (TVD)**
Total Depth: **4060.00 ft (KB) (TVD)**
Reference Elevations: **2796.00 ft (KB)**
2791.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Good**
KB to GR/CF: **5.00 ft**

Serial #: 6741 **Inside**
Press@RunDepth: **29.72 psig @ 3995.00 ft (KB)**
Capacity: **7000.00 psig**
Start Date: **2007.11.01** End Date: **2007.11.01** Last Calib.: **2007.11.01**
Start Time: **16:13:07** End Time: **23:28:35** Time On Btm: **2007.11.01 @ 18:31:15**
Time Off Btm: **2007.11.01 @ 21:33:50**

TEST COMMENT: IF Weak 1/4 " blow died in 10 min
FF No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2135.68	107.63	Initial Hydro-static
2	16.63	107.26	Open To Flow (1)
31	25.83	108.46	Shut-In(1)
62	205.38	109.84	End Shut-In(1)
63	26.97	109.77	Open To Flow (2)
94	29.72	110.96	Shut-In(2)
181	317.74	113.50	End Shut-In(2)
183	2040.48	115.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	OCM 5%O 95%M	0.02
1.00	CO	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Shuler # 2-29

250 N Water Ste 300
Wichita KS 67202

29 5 29 Decatur KS

Job Ticket: 30623

DST#: 4

ATTN: Scott Robinson

Test Start: 2007.11.01 @ 16:13:05

Tool Information

Drill Pipe:	Length: 3791.00 ft	Diameter: 3.80 inches	Volume: 53.18 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 54.06 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3992.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	97.00 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			3964.00	
Shut In Tool	5.00			3969.00	
Hydraulic tool	5.00			3974.00	
Jars	5.00			3979.00	
Safety Joint	3.00			3982.00	
Packer	5.00			3987.00	29.00 Bottom Of Top Packer
Packer	5.00			3992.00	
Stubb	1.00			3993.00	
Perforations	1.00			3994.00	
Change Over Sub	1.00			3995.00	
Recorder	0.00	6741	Inside	3995.00	
Drill Pipe	32.00			4027.00	
Change Over Sub	1.00			4028.00	
Recorder	0.00	13254	Outside	4028.00	
Perforations	29.00			4057.00	
Bullnose	3.00			4060.00	68.00 Bottom Packers & Anchor
Total Tool Length:	97.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Shuler # 2-29

250 N Water Ste 300
Wichita KS 67202

29 5 29 Decatur KS

Job Ticket: 30623

DST#: 4

ATTN: Scott Robinson

Test Start: 2007.11.01 @ 16:13:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 65.00 sec/qt

Water Loss: 5.99 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
4.00	OCM 5%O 95%M	0.020
1.00	CO	0.005

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

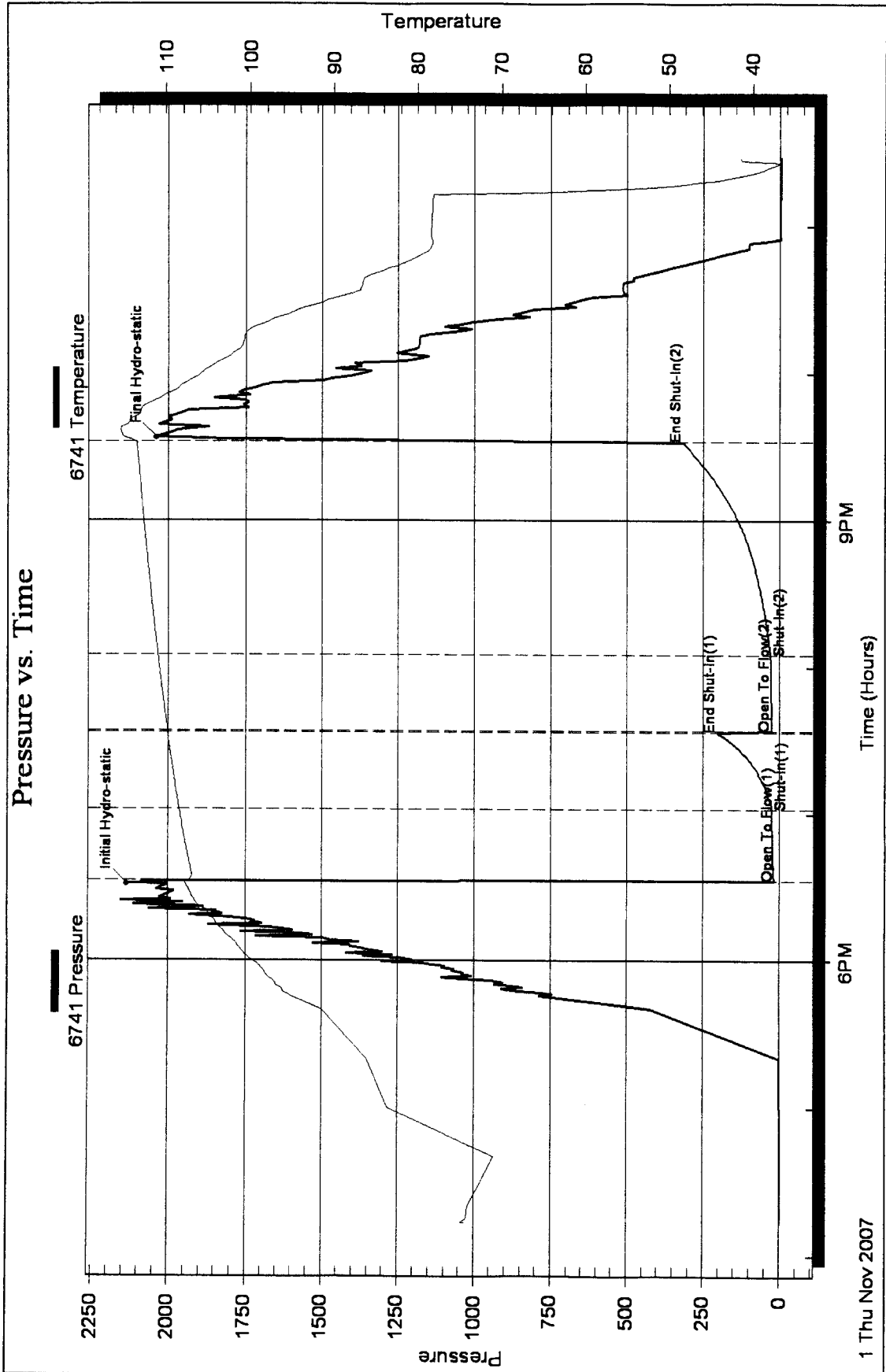
Inside

Murfin Drilling Co Inc

29 5 29 Decatur KS

DST Test Number: 4

Pressure vs. Time



1 Thu Nov 2007

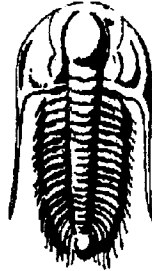
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FEB 26 2008

CONSERVATION DIVISION
WICHITA, KS

Ref. No: 30623

Mobile Testing, Inc



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

29 5 29 Decatur KS

Shuler # 2-29

Start Date: 2007.11.02 @ 18:21:52

End Date: 2007.11.03 @ 01:42:42

Job Ticket #: 29247 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

Shuler # 2-29

29 5 29 Decatur KS

DST # 5

Marmaton

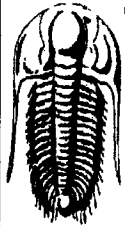
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WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Scott Robinson

Shuler # 2-29

29 5 29 Decatur KS

Job Ticket: 29247

DST#: 5

Test Start: 2007.11.02 @ 18:21:52

GENERAL INFORMATION:

Formation: **Marmaton**

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

Time Tool Opened: 20:20:12

Time Test Ended: 01:42:42

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **22**

Interval: **4117.00 ft (KB) To 4230.00 ft (KB) (TVD)**

Total Depth: **4230.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2796.00 ft (KB)**

2791.00 ft (CF)

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

Serial #: 8352

Inside

Press@RunDepth: **42.70 psig @ 4118.00 ft (KB)**

Start Date: **2007.11.02**

End Date: **2007.11.03**

Capacity: **7000.00 psig**

Last Calib.: **2007.11.03**

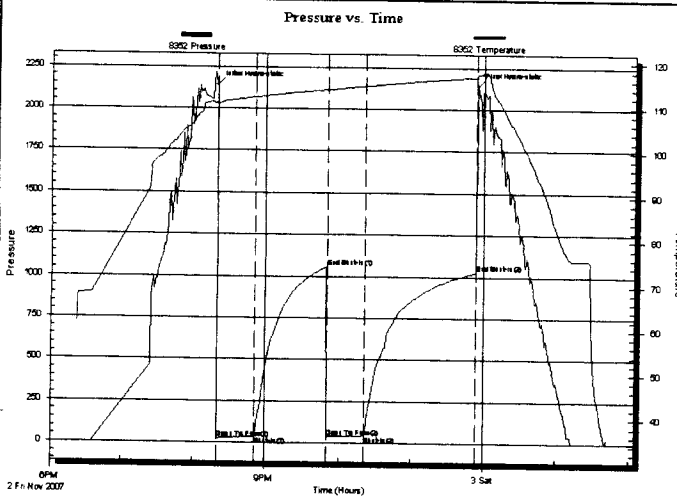
Start Time: **18:21:54**

End Time: **01:42:41**

Time On Btm: **2007.11.02 @ 20:19:32**

Time Off Btm: **2007.11.02 @ 23:54:52**

TEST COMMENT: IF Weak blow built to 1" in bucket
ISI Bled off no blow back.
FF No blow
FSI No blow back



PRESSURE SUMMARY

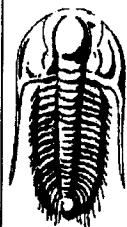
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.05	111.07	Initial Hydro-static
1	24.43	110.52	Open To Flow (1)
32	35.18	112.29	Shut-In (1)
91	1056.40	114.04	End Shut-In (1)
91	36.74	113.63	Open To Flow (2)
122	42.70	114.84	Shut-In (2)
215	1024.73	116.97	End Shut-In (2)
216	2140.57	117.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100%M	209.83

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Shuler # 2-29

250 N Water Ste 300
Wichita KS 67202

29 5 29 Decatur KS

Job Ticket: 29247

DST#: 5

ATTN: Scott Robinson

Test Start: 2007.11.02 @ 18:21:52

Tool Information

Drill Pipe:	Length: 3987.00 ft	Diameter: 3.80 inches	Volume: 55.93 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: 120.00 ft	Diameter: 120.00 inches	Volume: 1678.62 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 1734.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4117.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	113.00 ft			
Tool Length:	133.00 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			4102.00	
Hydraulic tool	5.00			4107.00	
Packer	5.00			4112.00	20.00 Bottom Of Top Packer
Packer	5.00			4117.00	
Stubb	1.00			4118.00	
Recorder	0.00	6799	Inside	4118.00	
Recorder	0.00	8352	Inside	4118.00	
Perforations	11.00			4129.00	
Blank Spacing	98.00			4227.00	
Bullnose	3.00			4230.00	113.00 Bottom Packers & Anchor
Total Tool Length:	133.00				



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Shuler # 2-29

250 N Water Ste 300
Wichita KS 67202

29 5 29 Decatur KS

Job Ticket: 29247

DST#: 5

ATTN: Scott Robinson

Test Start: 2007.11.02 @ 18:21:52

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: 64.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
15.00	100%M	209.828

Total Length: 15.00 ft Total Volume: 209.828 bbf

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

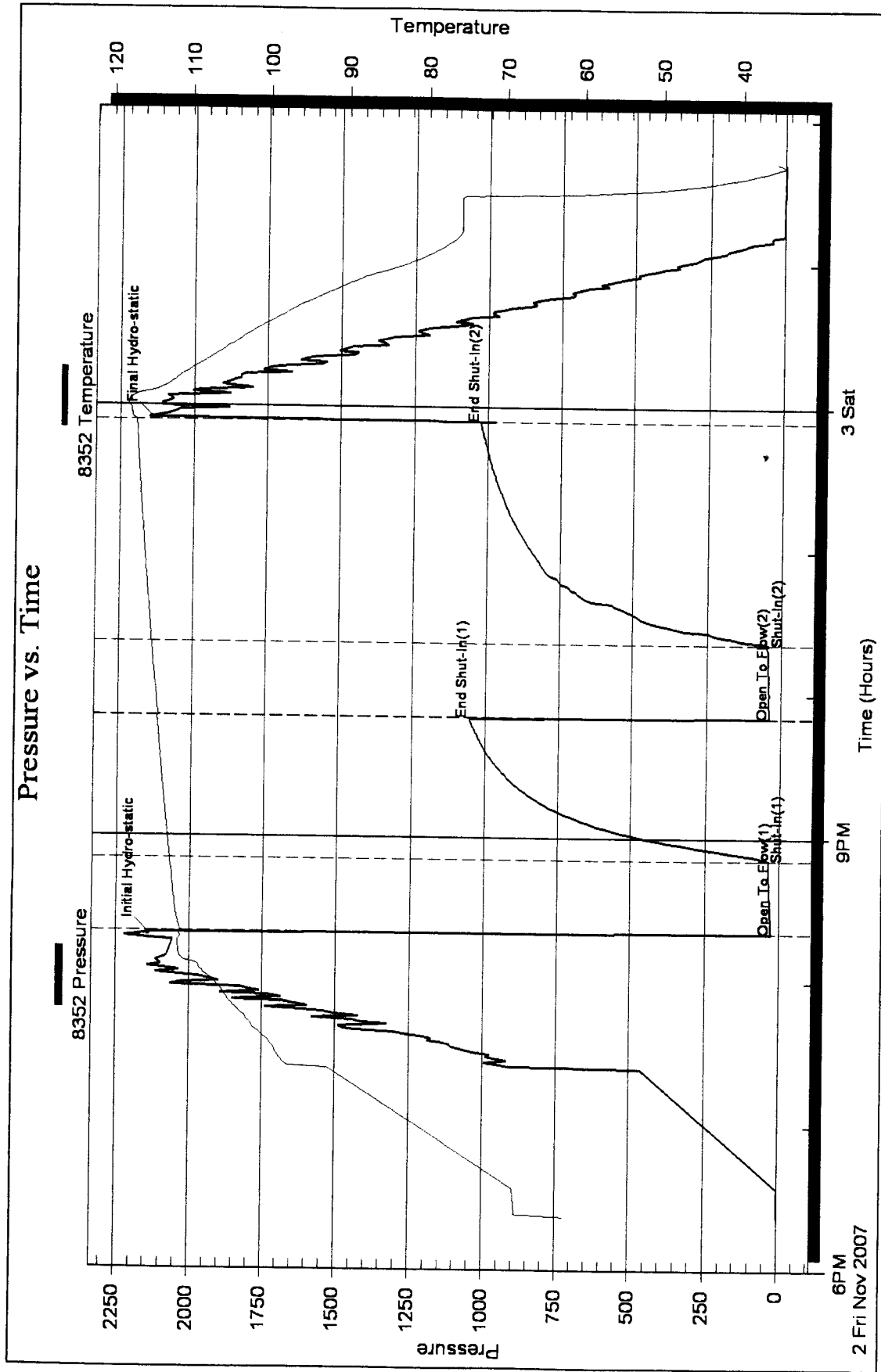
Serial #: 8352

Inside

Murfin Drilling Co Inc

29 5 29 Decatur KS

DST Test Number: 5



DST Test Number: 5

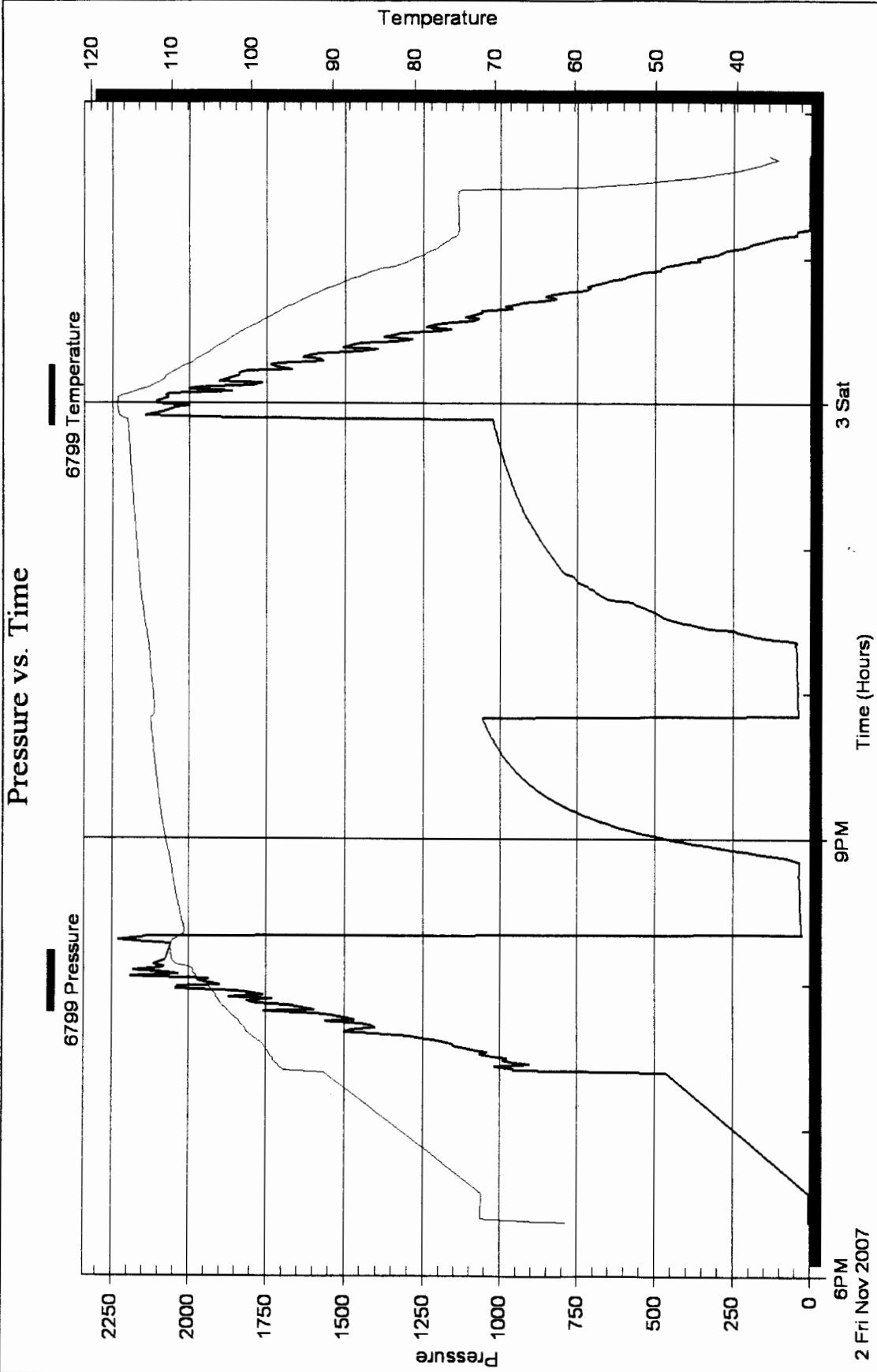
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Murfin Drilling Co Inc

Inside

Serial #: 6799

Pressure vs. Time



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WICHITA, KS

Ref. No. 29247

Elite Testing, Inc