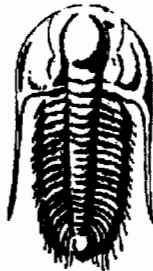


15-039-21042

20-5s-29w



**TRILOBITE
TESTING, INC.**

CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67206

ATTN: Rocky Milford

20 5S 29W Decatur KS

Shuler #1-20

Start Date: 2008.01.18 @ 11:50:17

End Date: 2008.01.18 @ 20:57:36

Job Ticket #: 30691

DST #: 1

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5/15/08*

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KANSAS CORPORATION COMMISSION

MAY 15 2008

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company Inc

Shuler #1-20

20 5S 29W Decatur KS

DST # 1

Toronto-Lansing "C"

2008.01.18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67206

ATTN: Rocky Milford

Shuler #1-20

20 5S 29W Decatur KS

Job Ticket: 30691

DST#: 1

Test Start: 2008.01.18 @ 11:50:17

GENERAL INFORMATION

Formation: Torreyes, Lansing "C"

Deviated: Whipstock: ft (KB)

Time Tool Opened: 4:54:57

Time Test Ended: 20:57:36

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: 3842.00 ft (KB) To 3922.00 ft (KB) (TVD)

Total Depth: 3922.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2822.00 ft (KB)

2817.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352

Inside

Press@RunDepth: 168.58 psig @ 3843.00 ft (KB)

Start Date: 2008.01.18

End Date:

2008.01.18

Start Time: 11:50:19

End Time:

20:57:36

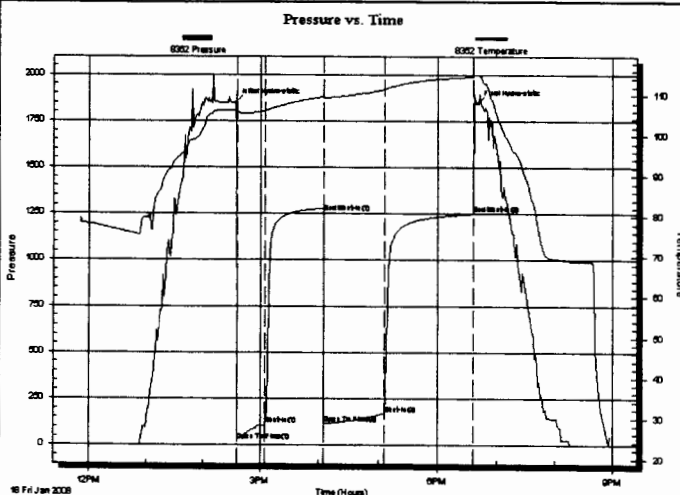
Capacity: 7000.00 psig

Last Calib.: 2008.01.18

Time On Btm: 2008.01.18 @ 14:33:07

Time Off Btm: 2008.01.18 @ 18:39:26

TEST COMMENT: IF Fairly strong blow built to BOB in 29 min
ISI Bled off blow back built to .75 " in bucket
FF Fairly strong blow built to BOB in 25 min
FSI Bled off blow back built to 7 " in bucket



PRESSURE SUMMARY

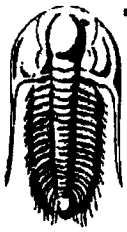
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1847.31	106.14	Initial Hydro-static
2	22.19	105.63	Open To Flow (1)
32	107.88	106.12	Shut-In (1)
92	1259.25	109.57	End Shut-In (1)
92	116.55	109.27	Open To Flow (2)
154	168.58	111.43	Shut-In (2)
244	1250.46	114.55	End Shut-In (2)
247	1844.96	114.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
78.00	OCM 15%O 85%M	0.38
105.00	Gassy Clean Oil 10%G 90%O	0.54
15.00	HOCM 40%O 60%M	0.21
167.00	Clean Oil 100%O	2.34
0.00	Corrected gravity = 24.5	0.00

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 Company Inc

250 N Water Ste 300
Wichita KS 67206

ATTN: Rocky Milford

Shuler #1-20

20 5S 29W Decatur KS

Job Ticket: 30691

DST#: 1

Test Start: 2008.01.18 @ 11:50:17

Tool Information

Drill Pipe:	Length: 3672.00 ft	Diameter: 3.80 inches	Volume: 51.51 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: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 52.40 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3842.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	100.00 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			3827.00	
Hydraulic tool	5.00			3832.00	
Packer	5.00			3837.00	20.00 Bottom Of Top Packer
Packer	5.00			3842.00	
Stubb	1.00			3843.00	
Recorder	0.00	6799	Inside	3843.00	
Recorder	0.00	8352	Inside	3843.00	
Perforations	12.00			3855.00	
Blank Spacing	64.00			3919.00	
Bullnose	3.00			3922.00	80.00 Bottom Packers & Anchor
Total Tool Length:	100.00				

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Shuler #1-20

250 N Water Ste 300
Wichita KS 67206

20 5S 29W Decatur KS

Job Ticket: 30691

DST#: 1

ATTN: Rocky Milford

Test Start: 2008.01.18 @ 11:50:17

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

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
78.00	OCM 15%O 85%M	0.384
105.00	Gassy Clean Oil 10%G 90%O	0.544
15.00	HOCM 40%O 60%M	0.210
167.00	Clean Oil 100%O	2.343
0.00	Corrected gravity = 24.5	0.000

Total Length: 365.00 ft

Total Volume: 3.481 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

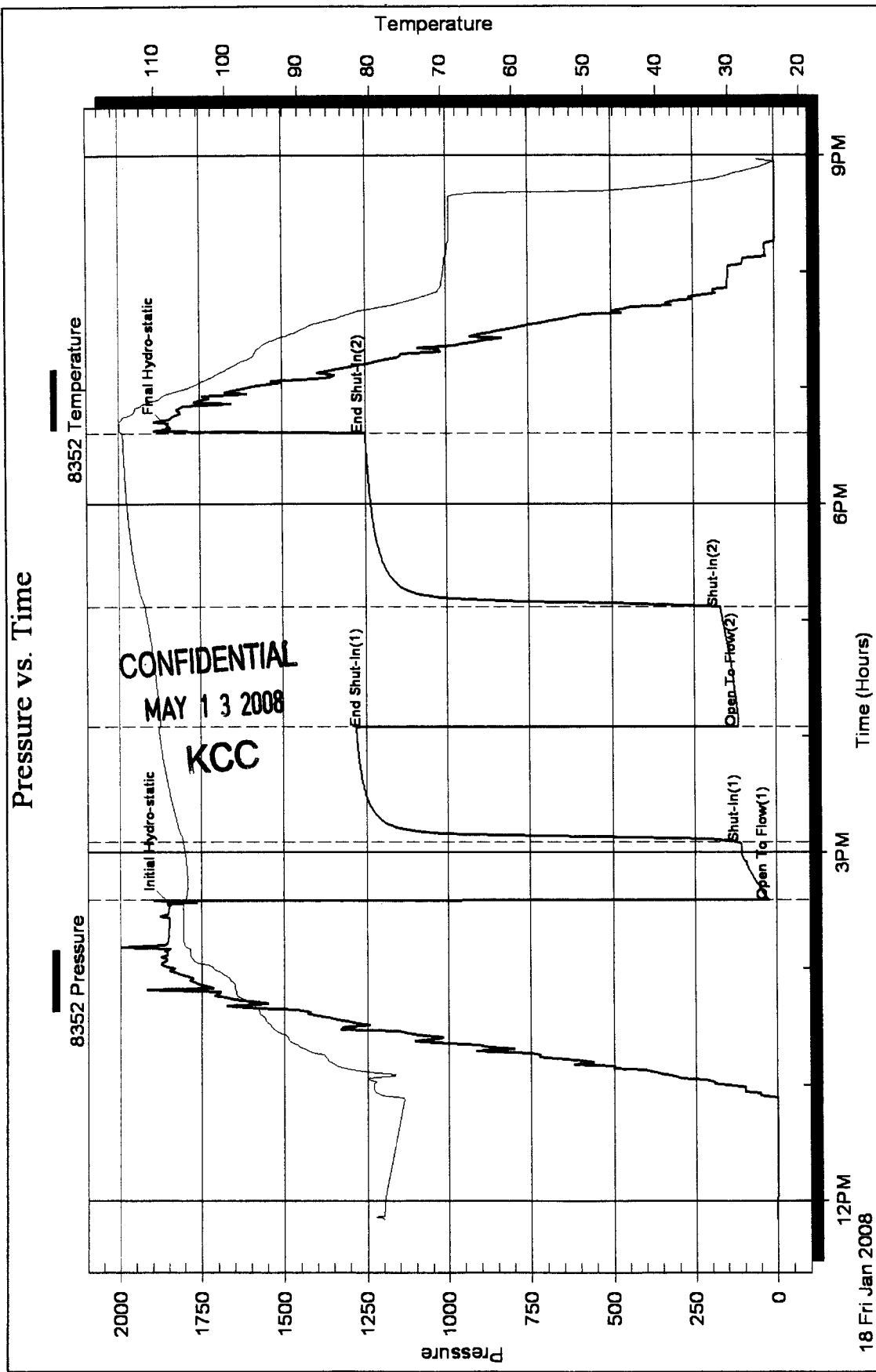
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67206

ATTN: Rocky Milford

20 5S 29W Decatur KS

Shuler #1-20

Start Date: 2008.01.19 @ 07:44:52

End Date: 2008.01.19 @ 16:00:52

Job Ticket #: 30692 DST #: 2

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CONSERVATION DIVISION
WICHITA, KS

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 Company Inc

250 N Water Ste 300
Wichita KS 67206

ATTN: Rocky Milford

Shuler #1-20

20 5S 29W Decatur KS

Job Ticket: 30692

DST#: 2

Test Start: 2008.01.19 @ 07:44:52

GENERAL INFORMATION:

Formation: **Lansing "E-G"**

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

Time Tool Opened: 10:09:32

Time Test Ended: 16:00:52

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **22**

Interval: **3936.00 ft (KB) To 3985.00 ft (KB) (TVD)**

Total Depth: **3985.00 ft (KB) (TVD)**

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

Reference Elevations: **2822.00 ft (KB)**

2817.00 ft (CF)

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

Serial #: 8352 **Inside**

Press@RunDepth: **98.56 psig @ 3937.00 ft (KB)**

Start Date: **2008.01.19**

End Date: **2008.01.19**

Start Time: **07:44:54**

End Time: **16:00:52**

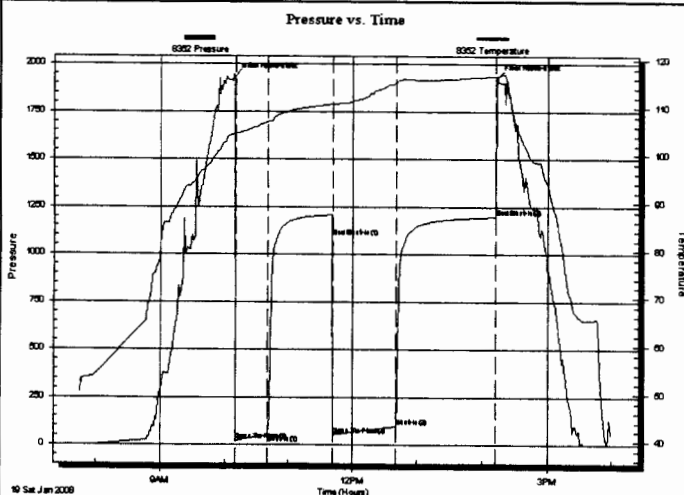
Capacity: **7000.00 psig**

Last Calib.: **2008.01.19**

Time On Btm: **2008.01.19 @ 10:09:02**

Time Off Btm: **2008.01.19 @ 14:13:12**

TEST COMMENT: IF: Weak blow, built to 3.75" in bucket.
ISI: Bled off, weak surface blow back.
FF: Weak blow, built to 5.5" in bucket.
FSI: Bled off, weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1932.57	104.81	Initial Hydro-static
1	19.51	104.34	Open To Flow (1)
32	49.54	106.96	Shut-In (1)
93	1092.44	110.75	End Shut-In (1)
93	51.03	110.54	Open To Flow (2)
151	98.56	115.27	Shut-In (2)
243	1196.31	116.64	End Shut-In (2)
245	1924.63	116.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	SOCM 3%o 97%am	0.69

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 Company Inc

250 N Water Ste 300
Wichita KS 67206

ATTN: Rocky Milford

Shuler #1-20

20 5S 29W Decatur KS

Job Ticket: 30692

DST#: 2

Test Start: 2008.01.19 @ 07:44:52

Tool Information

Drill Pipe:	Length: 3769.00 ft	Diameter: 3.80 inches	Volume: 52.87 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: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 53.76 bbl		Tool Chased 3.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3936.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	69.00 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			3921.00	
Hydraulic tool	5.00			3926.00	
Packer	5.00			3931.00	20.00 Bottom Of Top Packer
Packer	5.00			3936.00	
Stubb	1.00			3937.00	
Recorder	0.00	6799	Inside	3937.00	
Recorder	0.00	8352	Inside	3937.00	
Perforations	11.00			3948.00	
Blank Spacing	34.00			3982.00	
Bullnose	3.00			3985.00	49.00 Bottom Packers & Anchor
Total Tool Length:	69.00				

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Shuler #1-20

250 N Water Ste 300
Wichita KS 67206

20 5S 29W Decatur KS

Job Ticket: 30692

DST#: 2

ATTN: Rocky Milford

Test Start: 2008.01.19 @ 07:44:52

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	SOCM 3%o 97%om	0.688

Total Length: 140.00 ft

Total Volume: 0.688 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

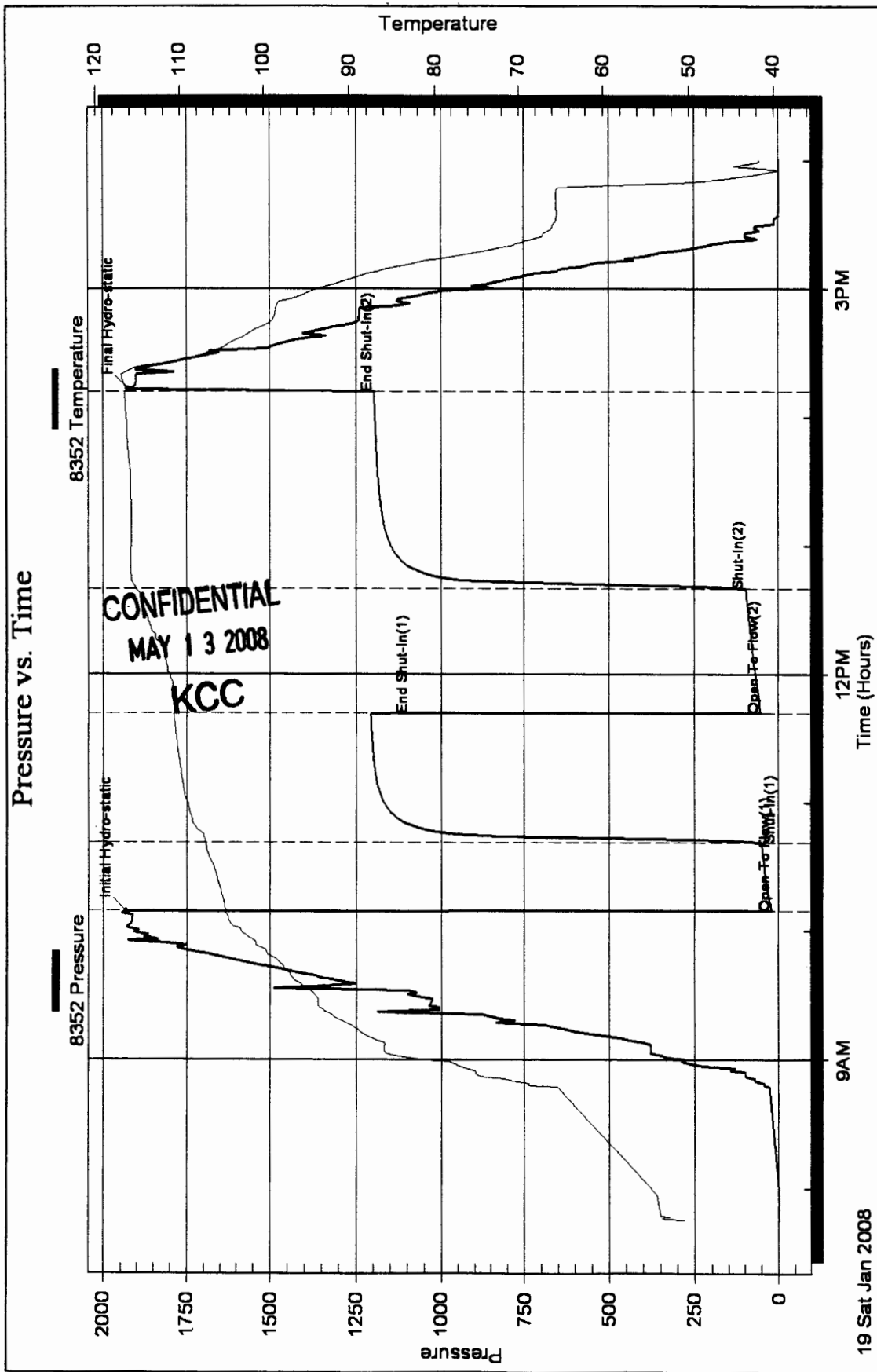
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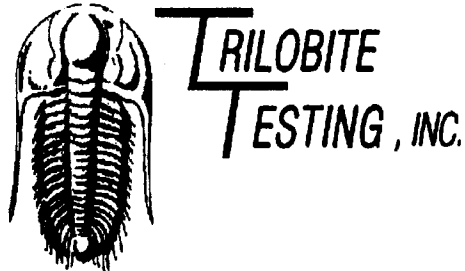
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67206

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ATTN: Rocky Milford

20 5S 29W Decatur KS

Shuler #1-20

Start Date: 2008.01.20 @ 03:05:22

End Date: 2008.01.20 @ 11:15:12

Job Ticket #: 30693 DST #: 3

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CONSERVATION DIVISION
WICHITA, KS

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 Company Inc

250 N Water Ste 300
Wichita KS 67206

ATTN: Rocky Milford

Shuler #1-20

20 5S 29W Decatur KS

Job Ticket: 30693

DST#: 3

Test Start: 2008.01.20 @ 03:05:22

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:02:02

Time Test Ended: 11:15:12

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3986.00 ft (KB) To 4075.00 ft (KB) (TVD)**

Total Depth: 4075.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2822.00 ft (KB)

2817.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352

Inside

Press@RunDepth: 104.51 psig @ 3987.00 ft (KB)

Start Date: 2008.01.20

End Date: 2008.01.20

Start Time: 03:05:24

End Time: 11:15:12

Capacity: 7000.00 psig

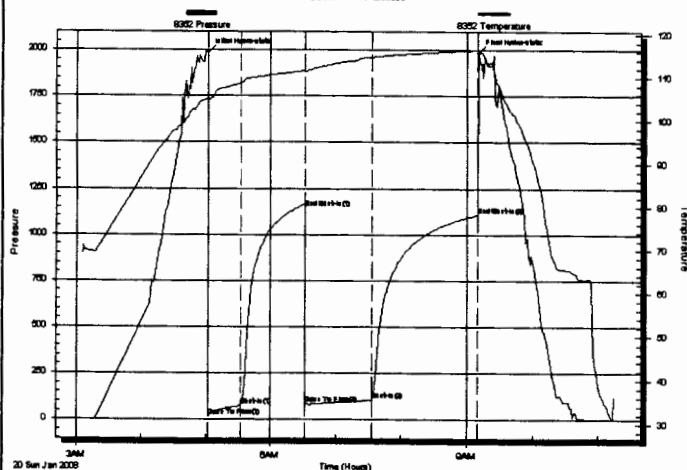
Last Calib.: 2008.01.20

Time On Btm: 2008.01.20 @ 05:01:52

Time Off Btm: 2008.01.20 @ 09:10:22

TEST COMMENT: IF Fairly strong blow built to BOB in 22.5 min
ISI Bled off blow back built to 1 " in bucket
FF Fairly strong blow built to BOB in 19.5 min
FSI Bled off blow back built to 2 " in bucket

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1986.26	105.41	Initial Hydro-static
1	16.75	104.42	Open To Flow (1)
30	74.09	108.62	Shut-In (1)
90	1146.10	111.54	End Shut-In (1)
90	82.56	111.26	Open To Flow (2)
152	104.51	114.73	Shut-In (2)
248	1106.90	116.39	End Shut-In (2)
249	1983.16	116.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOOM 12%G 26%O 62%M	0.59
125.00	Clean Oil 100%O	1.21
0.00	300' GIP	0.00
0.00	Corrected gravity = 37.5 deg API	0.00

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 Company Inc

250 N Water Ste 300
Wichita KS 67206

ATTN: Rocky Milford

Shuler #1-20

20 5S 29W Decatur KS

Job Ticket: 30693

DST#: 3

Test Start: 2008.01.20 @ 03:05:22

Tool Information

Drill Pipe:	Length: 3802.00 ft	Diameter: 3.80 inches	Volume: 53.33 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:	25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	58000.00 lb
			Total Volume: 54.22 bbl	Tool Chased	3.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3986.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	89.00 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
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3971.00	
Hydraulic tool	5.00			3976.00	
Packer	5.00			3981.00	20.00 Bottom Of Top Packer
Packer	5.00			3986.00	
Stubb	1.00			3987.00	
Recorder	0.00	6799	Inside	3987.00	
Recorder	0.00	8352	Inside	3987.00	
Perforations	21.00			4008.00	
Blank Spacing	64.00			4072.00	
Bullnose	3.00			4075.00	89.00 Bottom Packers & Anchor

Total Tool Length: 109.00

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67206

ATTN: Rocky Milford

Shuler #1-20

20 5S 29W Decatur KS

Job Ticket: 30693

DST#: 3

Test Start: 2008.01.20 @ 03:05:22

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 1200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GCOM 12%G 26%O 62%M	0.590
125.00	Clean Oil 100%O	1.207
0.00	300' GP	0.000
0.00	Corrected gravity = 37.5 deg API	0.000

Total Length: 245.00 ft

Total Volume: 1.797 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

