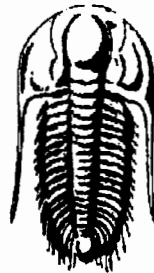


15-023-20806

32-25-41w

KG

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

32 2 41 Cheyenne KS

Raile 9-32

Start Date: 2007.05.11 @ 05:38:20

End Date: 2007.05.11 @ 11:54:29

Job Ticket #: 27896 DST #: 1

**KCC
AUG 2 4 2007
CONFIDENTIAL**

**RECEIVED
KANSAS CORPORATION COMMISSION**

AUG 2 8 2007

**CONSERVATION DIVISION
WICHITA, KS**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co

Raile

32 2 41 Cheyenne KS

DST # 1

Lansing "A"

2007.05.11

Well is 9-32



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Raile

32 2 41 Cheyenne KS

Job Ticket: 27896

DST#: 1

Test Start: 2007.05.11 @ 05:38:20

GENERAL INFORMATION:

Formation: **Lansing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:35:50

Time Test Ended: 11:54:29

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **4500.00 ft (KB) To 4560.00 ft (KB) (TVD)**

Total Depth: 4560.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3684.00 ft (KB)

3679.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 16.31 psig @ 4501.00 ft (KB)

Start Date: 2007.05.11

End Date:

2007.05.11

Start Time: 05:38:22

End Time:

11:54:30

Capacity: 7000.00 psig

Last Calib.: 2007.05.11

Time On Btm: 2007.05.11 @ 07:35:40

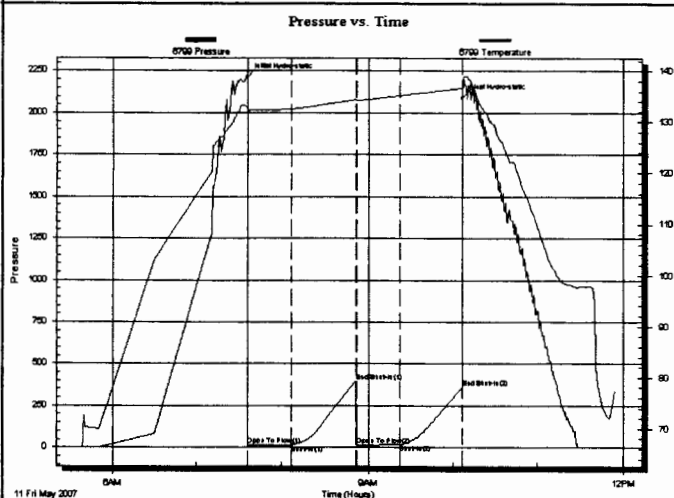
Time Off Btm: 2007.05.11 @ 10:06:30

TEST COMMENT: IF Weak blow built to .25 " in bucket died after 18 minutes

ISI No blow back

FF No blow

FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.22	132.85	Initial Hydro-static
1	14.08	131.20	Open To Flow (1)
31	15.53	132.57	Shut-In(1)
76	394.71	134.37	End Shut-In(1)
77	14.41	134.22	Open To Flow(2)
107	16.31	135.17	Shut-In(2)
151	359.09	136.68	End Shut-In(2)
151	2091.04	137.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drilling Mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Raile

32 2 41 Cheyenne KS

Job Ticket: 27896

DST#: 1

Test Start: 2007.05.11 @ 05:38:20

Tool Information

Drill Pipe:	Length: 4018.00 ft	Diameter: 3.80 inches	Volume: 56.36 bbl	Tool Weight:	2100.00 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: 480.00 ft	Diameter: 2.25 inches	Volume: 2.36 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	58.72 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4500.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	88.00 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			4477.00	
Hydraulic tool	5.00			4482.00	
Jars	5.00			4487.00	
Safety Joint	3.00			4490.00	
Packer	5.00			4495.00	28.00 Bottom Of Top Packer
Packer	5.00			4500.00	
Stubb	1.00			4501.00	
Recorder	0.00	6799	Inside	4501.00	
Perforations	23.00			4524.00	
Blank Spacing	33.00			4557.00	
Recorder	0.00	3354	Outside	4557.00	
Bullnose	3.00			4560.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Raile

250 N Water Ste 300
Wichita KS 67202

32 2 41 Cheyenne KS

Job Ticket: 27896

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2007.05.11 @ 05:38:20

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:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Drilling Mud	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:

DST Test Number: 1

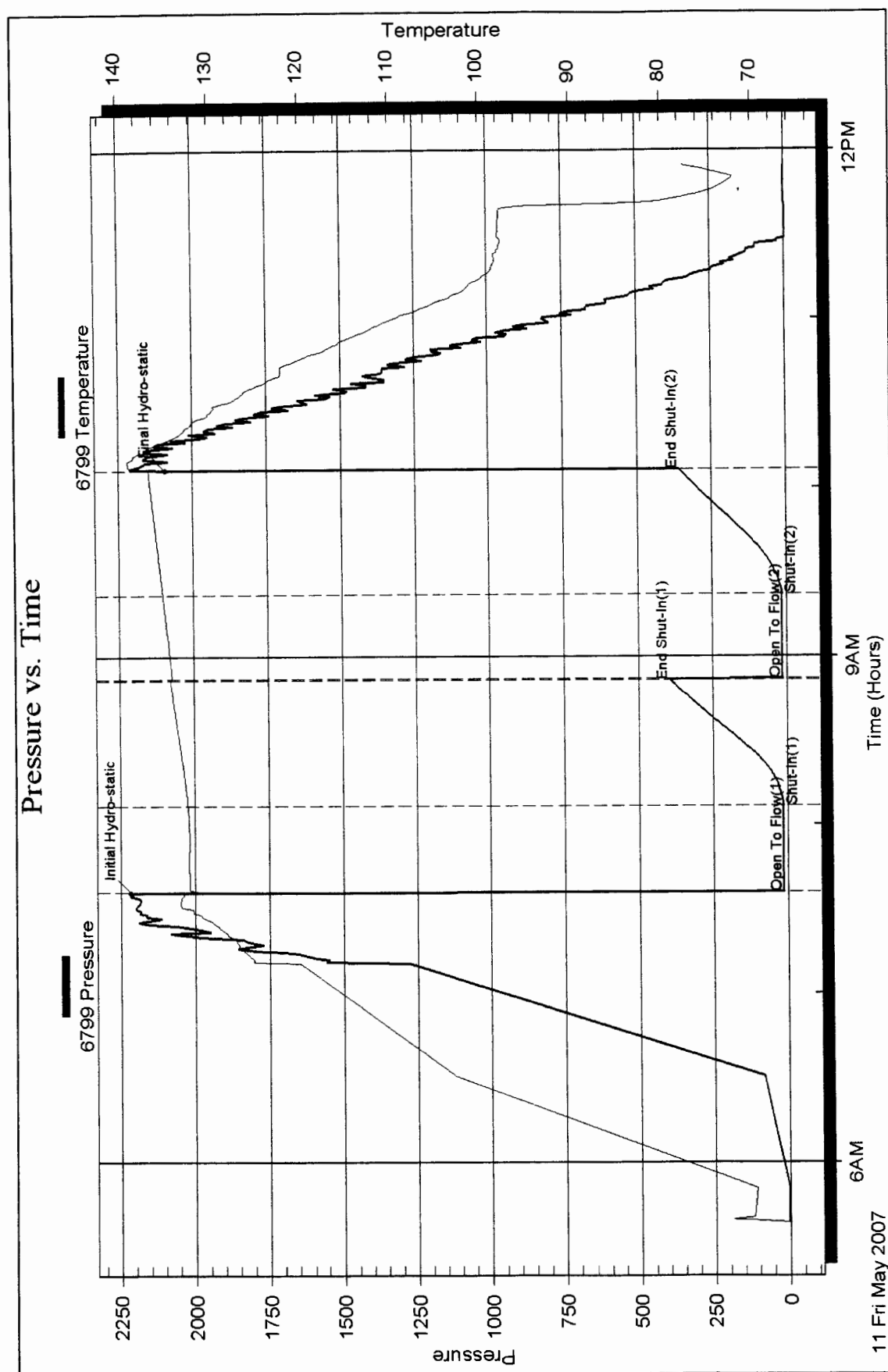
32 2 41 Cheyenne KS

Murfin Drilling Co

Inside

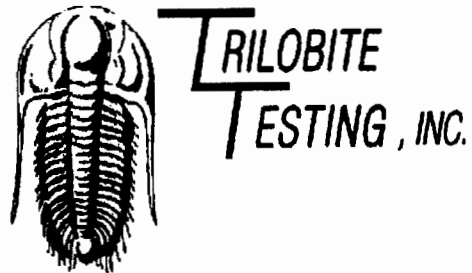
Serial #: 6799

Pressure vs. Time



Ref. No: 27896

Triobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

32 2 41 Cheyenne KS

Raile

Start Date: 2007.05.11 @ 21:35:12

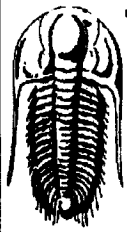
End Date: 2007.05.12 @ 03:49:02

Job Ticket #: 27897 DST #: 2

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

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Raile

32 2 41 Cheyenne KS

Job Ticket: 27897

DST#: 2

Test Start: 2007.05.11 @ 21:35:12

GENERAL INFORMATION:

Formation: **Lansing "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:09:52

Time Test Ended: 03:49:02

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **4570.00 ft (KB) To 4622.00 ft (KB) (TVD)**

Total Depth: 4622.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3684.00 ft (KB)

3679.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 23.52 psig @ 4571.00 ft (KB)

Start Date: 2007.05.11

End Date:

2007.05.12

Capacity: 7000.00 psig

Last Calib.: 2007.05.12

Start Time: 21:35:14

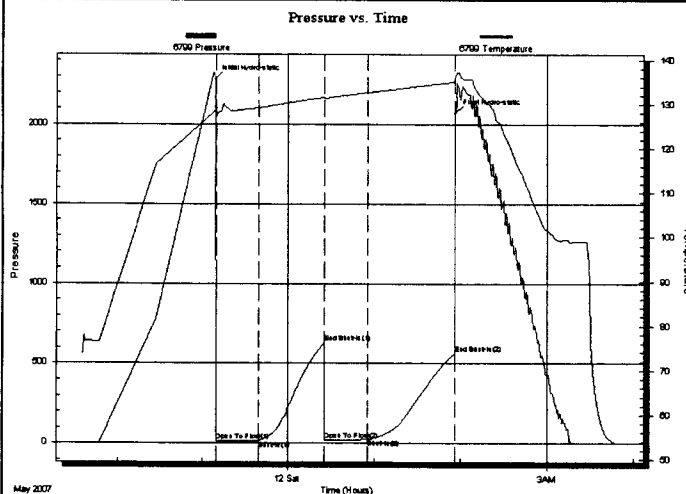
End Time:

03:49:01

Time On Btm: 2007.05.11 @ 23:09:42

Time Off Btm: 2007.05.12 @ 01:56:31

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	2282.13	128.60	Initial Hydro-static
1	11.74	127.28	Open To Flow (1)
31	17.25	129.18	Shut-In (1)
76	626.81	131.58	End Shut-In (1)
77	20.52	131.33	Open To Flow (2)
106	23.52	132.61	Shut-In (2)
167	560.82	135.07	End Shut-In (2)
167	2070.57	135.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	OCM 12% Oil 88% Mud	0.12

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Raile

32 2 41 Cheyenne KS

Job Ticket: 27897

DST#: 2

Test Start: 2007.05.11 @ 21:35:12

Tool Information

Drill Pipe:	Length: 4076.00 ft	Diameter: 3.80 inches	Volume: 57.18 bbl	Tool Weight:	2100.00 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 59.57 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4570.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	52.00 ft				
Tool Length:	75.00 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			4552.00	
Hydraulic tool	5.00			4557.00	
Safety Joint	3.00			4560.00	
Packer	5.00			4565.00	23.00 Bottom Of Top Packer
Packer	5.00			4570.00	
Stubb	1.00			4571.00	
Recorder	0.00	6799	Inside	4571.00	
Perforations	16.00			4587.00	
Blank Spacing	32.00			4619.00	
Recorder	0.00	10270	Outside	4619.00	
Bullnose	3.00			4622.00	52.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Raile

250 N Water Ste 300
Wichita KS 67202

32 2 41 Cheyenne KS

Job Ticket: 27897

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2007.05.11 @ 21:35:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	OCM 12%Oil 88%Mud	0.123

Total Length: 25.00 ft

Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

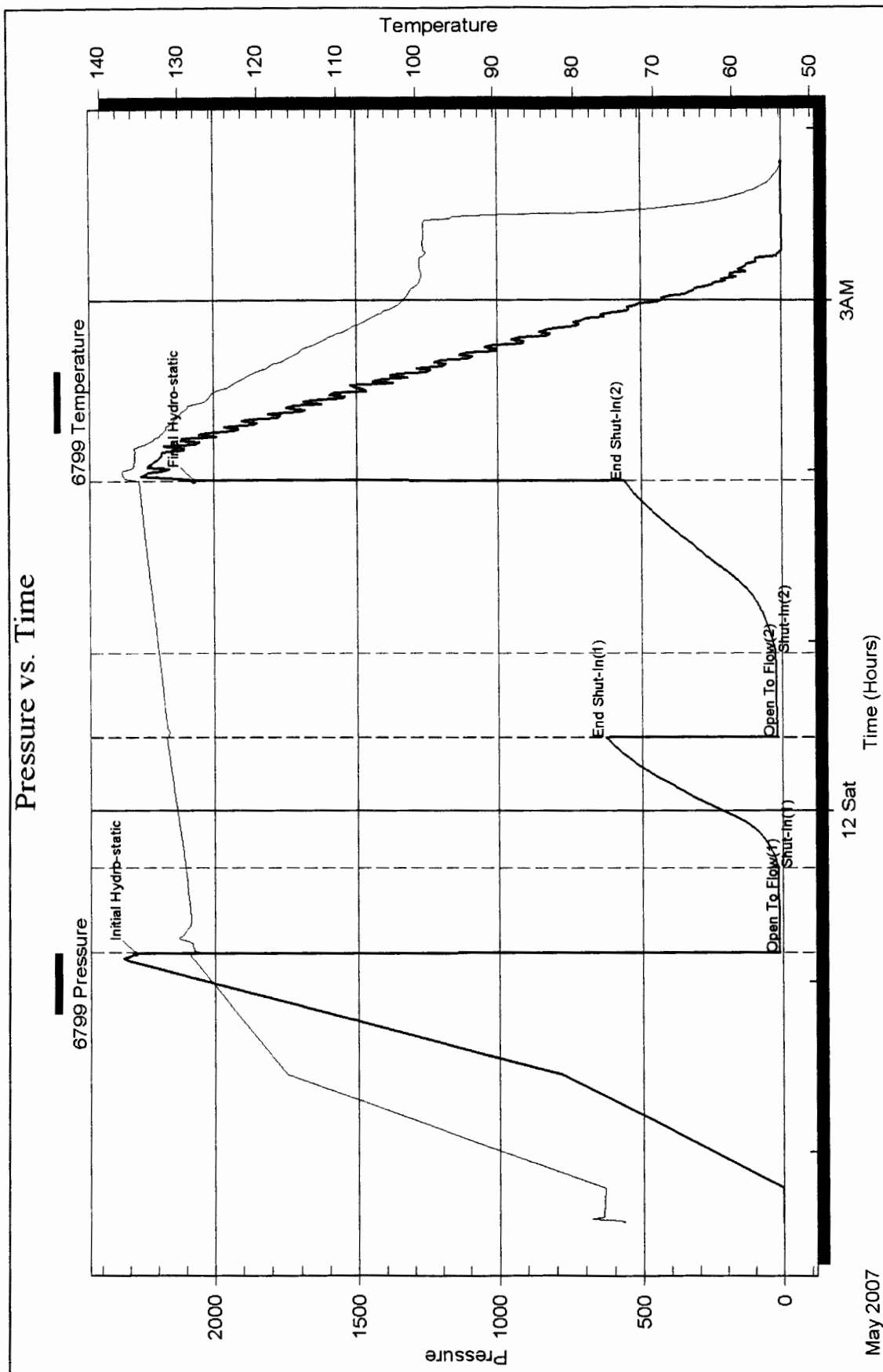
Serial #:

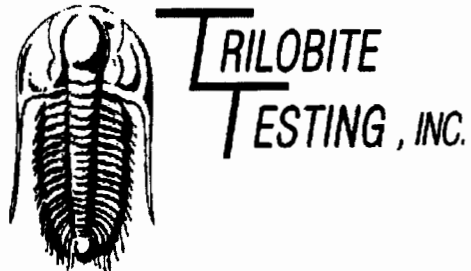
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

32 2 41 Cheyenne KS

Raile

Start Date: 2007.05.12 @ 20:28:03

End Date: 2007.05.13 @ 02:59:53

Job Ticket #: 27898 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Raile

32 2 41 Cheyenne KS

Job Ticket: 27898

DST#: 3

Test Start: 2007.05.12 @ 20:28:03

Formation: **Lansing "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:09:23

Time Test Ended: 02:59:53

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: 4720.00 ft (KB) To 4772.00 ft (KB) (TVD)

Total Depth: 4772.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3684.00 ft (KB)

3679.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799 **inside**

Press@RunDepth: 14.02 psig @ 4721.00 ft (KB)

Start Date: 2007.05.12

Start Time: 20:28:05

Capacity: 7000.00 psig

Last Calib.: 2007.05.13

Time On Btm: 2007.05.12 @ 22:09:03

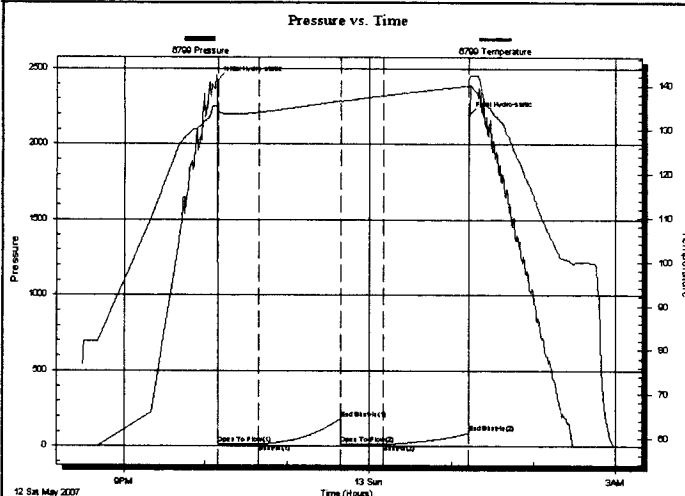
Time Off Btm: 2007.05.13 @ 01:12:33

TEST COMMENT: IF Weak blow built to 1" in 10 minutes, died to a surface blow by end of flow

ISI Bled off no blow back

FF No blow

FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2419.92	135.21	Initial Hydro-static
1	11.79	134.41	Open To Flow (1)
31	13.05	133.91	Shut-In(1)
90	181.66	136.55	End Shut-In(1)
91	12.42	136.50	Open To Flow (2)
121	14.02	137.71	Shut-In(2)
184	88.40	139.98	End Shut-In(2)
184	2192.17	141.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 1%Oil 99%Mud	0.02

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Raile

32 2 41 Cheyenne KS

Job Ticket: 27898

DST#: 3

Test Start: 2007.05.12 @ 20:28:03

Tool Information

Drill Pipe:	Length: 4235.00 ft	Diameter: 3.80 inches	Volume: 59.41 bbl	Tool Weight: 2100.00 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: 480.00 ft	Diameter: 2.25 inches	Volume: 2.36 bbl	Weight to Pull Loose: 83000.00 lb
		Total Volume:	61.77 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4720.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	75.00 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			4702.00	
Hydraulic tool	5.00			4707.00	
Safety Joint	3.00			4710.00	
Packer	5.00			4715.00	23.00 Bottom Of Top Packer
Packer	5.00			4720.00	
Stubb	1.00			4721.00	
Recorder	0.00	6799	Inside	4721.00	
Perforations	15.00			4736.00	
Blank Spacing	33.00			4769.00	
Recorder	0.00	10270	Outside	4769.00	
Bullnose	3.00			4772.00	52.00 Bottom Packers & Anchor

Total Tool Length: 75.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Raile

250 N Water Ste 300
Wichita KS 67202

32 2 41 Cheyenne KS

Job Ticket: 27898

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2007.05.12 @ 20:28:03

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: 63.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	OSM 1%Oil 99%Mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

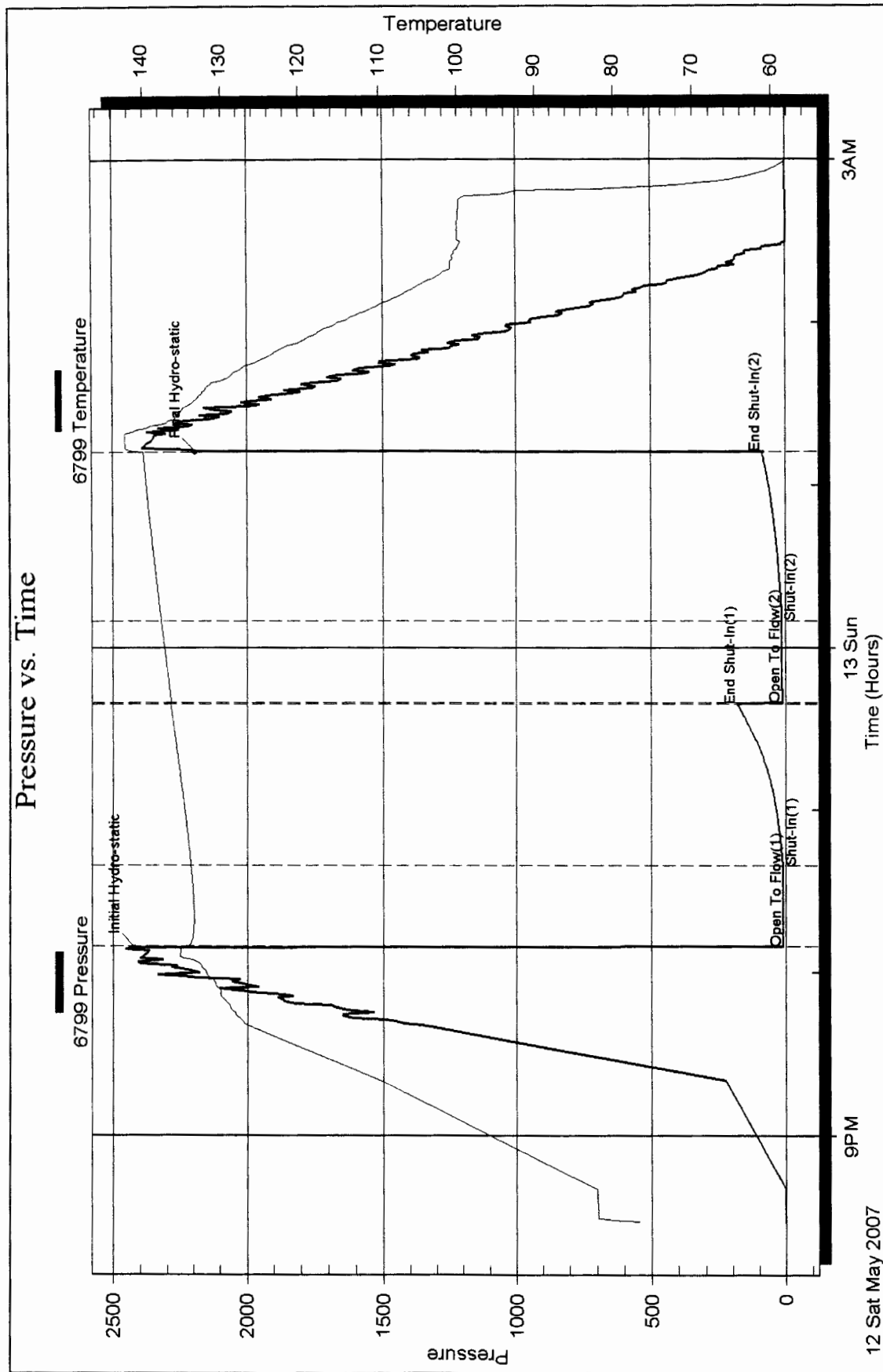
Serial #:

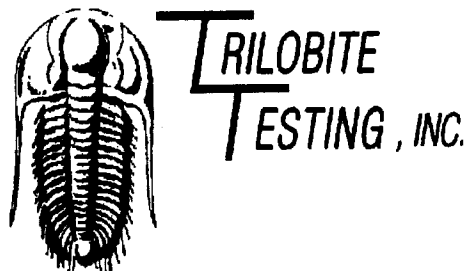
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

32 2 41 Cheyenne KS

Raile

Start Date: 2007.05.15 @ 01:32:20

End Date: 2007.05.15 @ 07:51:14

Job Ticket #: 26469 DST #: 4

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

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Raile

32 2 41 Cheyenne KS

Job Ticket: 26469

DST#: 4

Test Start: 2007.05.15 @ 01:32:20

GENERAL INFORMATION:

Formation: **Ft Scott, Cherokee**

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

Time Tool Opened: 03:30:00

Time Test Ended: 07:51:14

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **40**

Interval: **4984.00 ft (KB) To 5104.00 ft (KB) (TVD)**

Total Depth: **5104.00 ft (KB) (TVD)**

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

Reference Elevations: **3684.00 ft (KB)**

3679.00 ft (CF)

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

Serial #: 6667 **Inside**

Press@RunDepth: **psig @ 4985.00 ft (KB)**

Start Date: **2007.05.15**

End Date:

2007.05.15

Capacity: **7000.00 psig**

Last Calib.: **2007.05.15**

Start Time: **01:32:20**

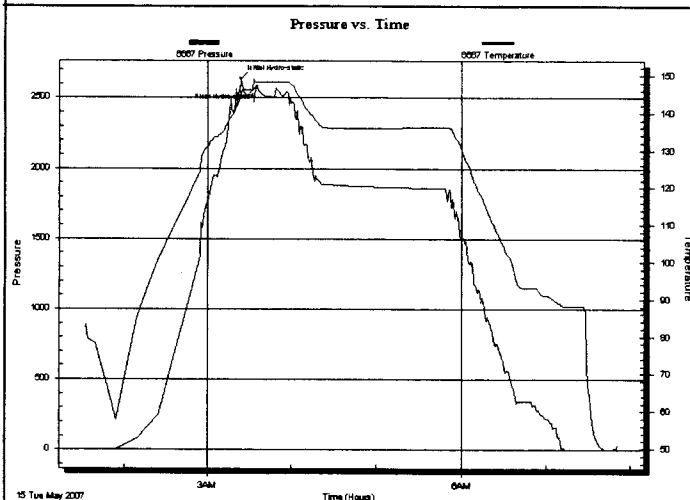
End Time:

07:51:14

Time On Btm: **2007.05.15 @ 03:23:45**

Time Off Btm: **2007.05.15 @ 03:35:30**

TEST COMMENT: Packers failed @ open reset failed again pull tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2633.68	145.22	Initial Hydro-static
12	2581.78	148.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
635.00	100%M	4.49

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

Raile

250 N Water Ste 300
Wichita KS 67202

32 2 41 Cheyenne KS

Job Ticket: 26469

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2007.05.15 @ 01:32:20

Tool Information

Drill Pipe:	Length: 4508.00 ft	Diameter: 3.80 inches	Volume: 63.24 bbl	Tool Weight:	1500.00 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose:	76000.00 lb
		Total Volume:	65.63 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4984.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	120.00 ft				
Tool Length:	142.00 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			4963.00	
Shut In Tool	5.00			4968.00	
Hydraulic tool	5.00			4973.00	
Safety Joint	2.00			4975.00	
Packer	5.00			4980.00	22.00 Bottom Of Top Packer
Packer	4.00		Inside	4984.00	
Stubb	1.00			4985.00	
Recorder	0.00	6667	Inside	4985.00	
Perforations	19.00			5004.00	
Change Over Sub	1.00			5005.00	
Drill Pipe	93.00			5098.00	
Change Over Sub	1.00			5099.00	
Recorder	0.00	11058	Inside	5099.00	
Bullnose	5.00			5104.00	120.00 Bottom Packers & Anchor

Total Tool Length: 142.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Raile

250 N Water Ste 300
Wichita KS 67202

32 2 41 Cheyenne KS

Job Ticket: 26469

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2007.05.15 @ 01:32:20

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
635.00	100%M	4.489

Total Length: 635.00 ft

Total Volume: 4.489 bbl

Num Fluid Samples: 0

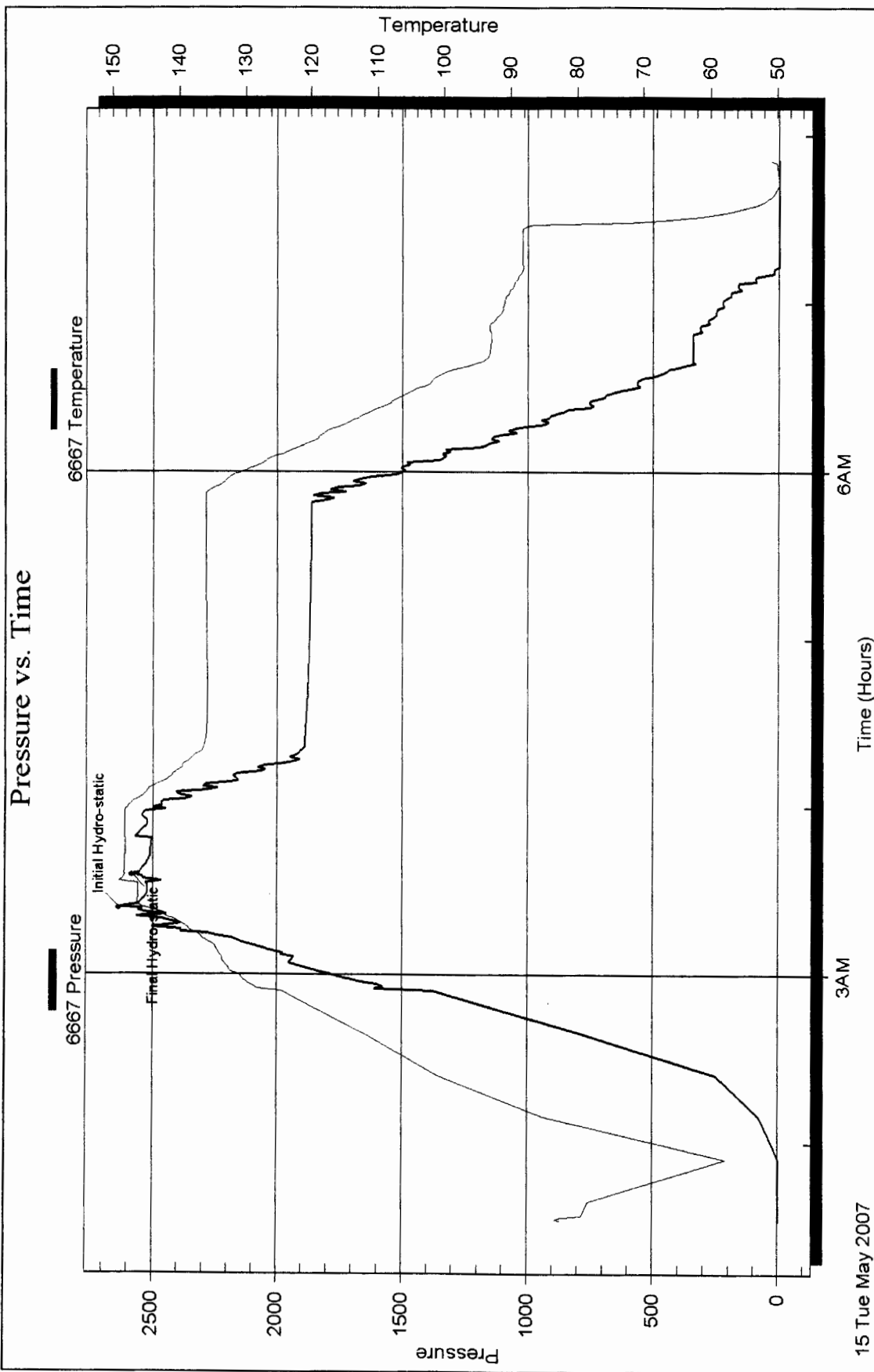
Num Gas Bombs: 0

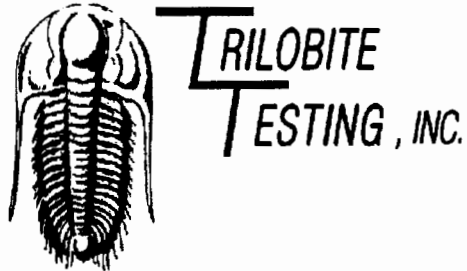
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

32 2 41 Cheyenne KS

Raile

Start Date: 2007.05.15 @ 08:00:05

End Date: 2007.05.15 @ 12:12:15

Job Ticket #: 26470 DST #: 5

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
250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Raile

32 2 41 Cheyenne KS

Job Ticket: 26470

DST#: 5

Test Start: 2007.05.15 @ 08:00:05

GENERAL INFORMATION:

Formation: **Ft Scott, Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:45:00

Time Test Ended: 12:12:15

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: **4964.00 ft (KB) To 5104.00 ft (KB) (TVD)**

Total Depth: 5104.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3684.00 ft (KB)

3679.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6667

Inside

Press@RunDepth: psig @ 4965.00 ft (KB)

Start Date: 2007.05.15

End Date:

2007.05.15

Capacity: 7000.00 psig

Last Calib.: 2007.05.15

Start Time: 08:00:05

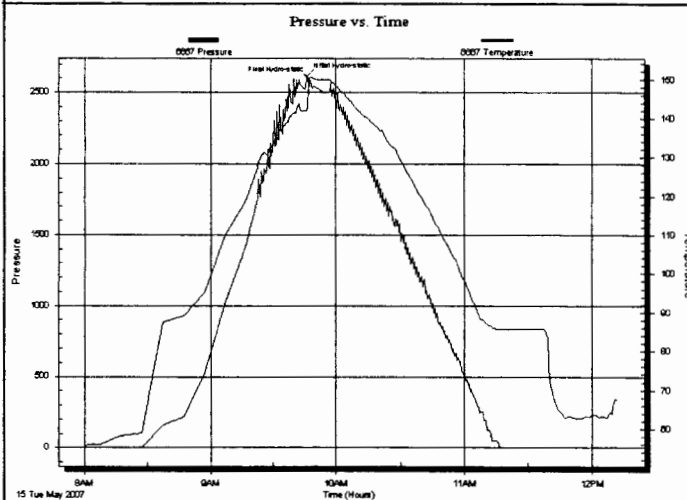
End Time:

12:12:15

Time On Btm: 2007.05.15 @ 09:46:00

Time Off Btm: 2007.05.15 @ 09:47:45

TEST COMMENT: Packers failed @ open reset failed again pull tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2610.39	142.05	Initial Hydro-static
2	2580.19	150.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	100%M	1.18

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Raile

32 2 41 Cheyenne KS

Job Ticket: 26470

DST#: 5

Test Start: 2007.05.15 @ 08:00:05

Tool Information

Drill Pipe:	Length: 4477.00 ft	Diameter: 3.80 inches	Volume: 62.80 bbl	Tool Weight:	1500.00 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose:	76000.00 lb
		Total Volume:	65.19 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4964.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	140.00 ft				
Tool Length:	162.00 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			4943.00	
Shut In Tool	5.00			4948.00	
Hydraulic tool	5.00			4953.00	
Safety Joint	2.00			4955.00	
Packer	5.00			4960.00	22.00 Bottom Of Top Packer
Packer	4.00		Inside	4964.00	
Stubb	1.00			4965.00	
Recorder	0.00	6667	Inside	4965.00	
Perforations	8.00			4973.00	
Change Over Sub	1.00			4974.00	
Drill Pipe	124.00			5098.00	
Change Over Sub	1.00			5099.00	
Recorder	0.00	11058	Inside	5099.00	
Bullnose	5.00			5104.00	140.00 Bottom Packers & Anchor

Total Tool Length: 162.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Raile

250 N Water Ste 300
Wichita KS 67202

32 2 41 Cheyenne KS

Job Ticket: 26470

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2007.05.15 @ 08:00:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	100%M	1.180

Total Length: 240.00 ft

Total Volume: 1.180 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

