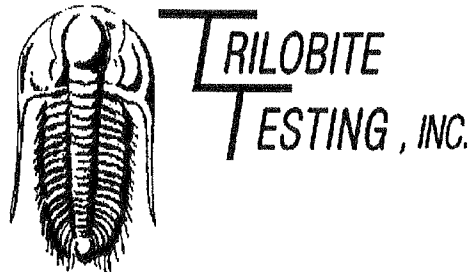


CONFIDENTIAL**DRILL STEM TEST REPORT**Prepared For: **Murfin Drilling Company**250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

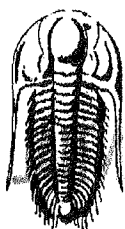
2 3 41W Cheyenne KS**Zweygardt #2-2**

Start Date: 2007.05.22 @ 10:43:17

End Date: 2007.05.22 @ 18:42:17

Job Ticket #: 27779 DST #: 1

KCC
SEP 14 2007
CONFIDENTIAL**RECEIVED**
KANSAS CORPORATION COMMISSION**SEP 14 2007**CONSERVATION DIVISION
WICHITA, KSTrilobite 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

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Zweygardt #2-2

2 3 41W Cheyenne KS

Job Ticket: 27779

DST#: 1

Test Start: 2007.05.22 @ 10:43:17

GENERAL INFORMATION:

Formation: **Lansing A&D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:39:37

Time Test Ended: 18:42:17

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **4340.00 ft (KB) To 4460.00 ft (KB) (TVD)**

Total Depth: 4460.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3547.00 ft (KB)

3542.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 229.58 psig @ 4341.00 ft (KB)

Start Date: 2007.05.22

End Date:

2007.05.22

Start Time: 10:43:19

End Time:

18:42:17

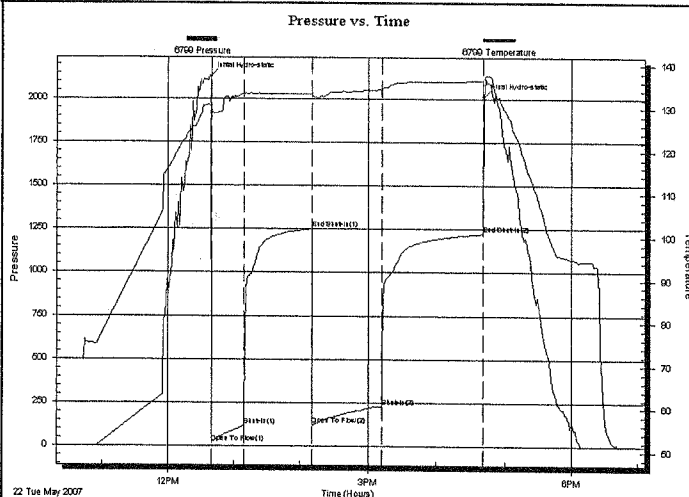
Capacity: 7000.00 psig

Last Calib.: 2007.05.22

Time On Btm: 2007.05.22 @ 12:39:17

Time Off Btm: 2007.05.22 @ 16:40:57

TEST COMMENT: IF Fair blow built to 7.25 " in bucket
ISI Bled off no blow back
FF Fair blow built to 7 " in bucket
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.70	130.49	Initial Hydro-static
1	18.41	129.62	Open To Flow (1)
31	119.41	133.22	Shut-In(1)
92	1250.58	133.47	End Shut-In(1)
92	120.36	132.74	Open To Flow (2)
153	229.58	134.42	Shut-In(2)
242	1222.66	136.48	End Shut-In(2)
242	2011.39	136.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	GCOCM 15%G 15%O 70%M	0.64
60.00	HGCOCM 25%G 20%O 55%M	0.30
180.00	GCOCM 10%G 20%O 70%M	0.89
90.00	OCM 25%O 75%M	0.44
40.00	Clean Oil 100%O Gravity=22 deg API cpor0.33	

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

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Zweygardt #2-2

2 3 41W Cheyenne KS

Job Ticket: 27779

DST#: 1

Test Start: 2007.05.22 @ 10:43:17

Tool Information

Drill Pipe:	Length: 3858.00 ft	Diameter: 3.80 inches	Volume: 54.12 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	56.51 bbl	Tool Chased	12.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4340.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	120.00 ft				
Tool Length:	143.00 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			4322.00	
Hydraulic tool	5.00			4327.00	
Safety Joint	3.00			4330.00	
Packer	5.00			4335.00	23.00 Bottom Of Top Packer
Packer	5.00			4340.00	
Stubb	1.00			4341.00	
Recorder	0.00	6799	Inside	4341.00	
Perforations	23.00			4364.00	
Blank Spacing	61.00			4425.00	
Recorder	0.00	10270	Outside	4425.00	
Blank Spacing	32.00			4457.00	
Bullnose	3.00			4460.00	120.00 Bottom Packers & Anchor

Total Tool Length: 143.00

KCC
SEP 14 2007
CONFIDENTIAL



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Zweygardt #2-2

250 N Water Ste 300
Wichita KS 67202

2 3 41W Cheyenne KS

Job Ticket: 27779

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2007.05.22 @ 10:43:17

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.79 in³

Resistivity: ohm.m

Salinity: 700.00 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
130.00	GCOCM 15%G 15%O 70%M	0.639
60.00	HGCOCM 25%G 20%O 55%M	0.295
180.00	GCOCM 10%G 20%O 70%M	0.885
90.00	OCM 25%O 75%M	0.443
40.00	Clean Oil 100%O Gravity=22 deg API corr.	0.333

Total Length: 500.00 ft

Total Volume: 2.595 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

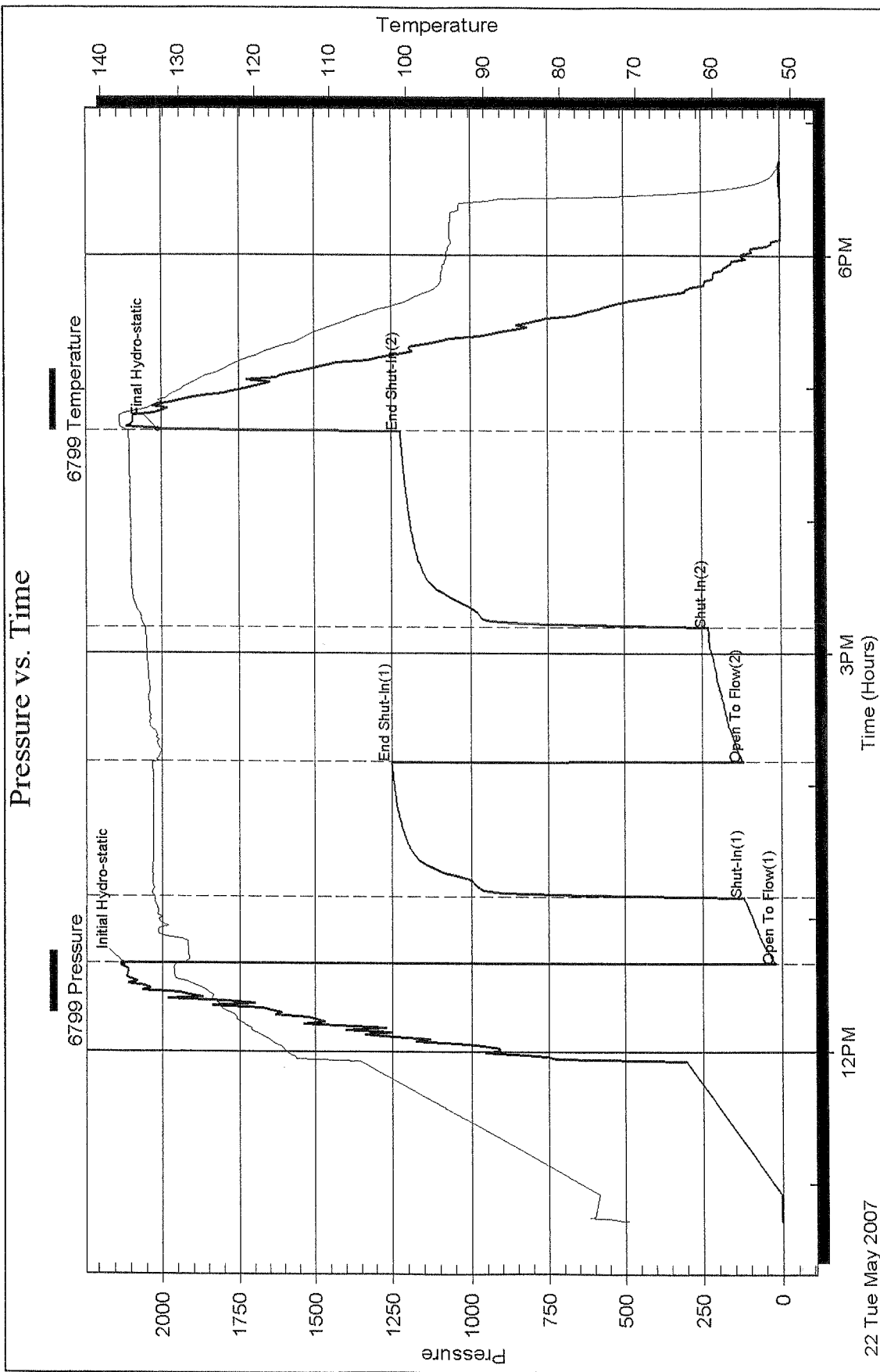
Serial #:

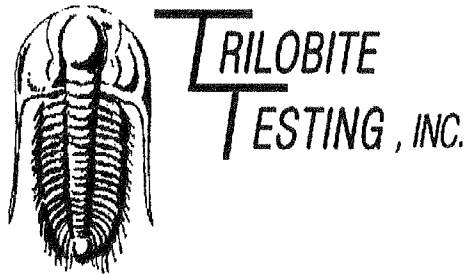
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

2 3 41W Cheyenne KS

Zweygardt #2-2

Start Date: 2007.05.23 @ 10:43:38

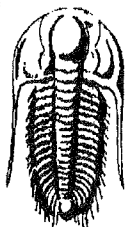
End Date: 2007.05.23 @ 17:46:17

Job Ticket #: 27780 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 Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Zweygardt #2-2

2 3 41W Cheyenne KS

Job Ticket: 27780

DST#: 2

Test Start: 2007.05.23 @ 10:43:38

GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:45:08

Time Test Ended: 17:46:17

Interval: **4558.00 ft (KB) To 4598.00 ft (KB) (TVD)**

Total Depth: 4598.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Reference Elevations: 3547.00 ft (KB)

3542.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press@RunDepth: 14.98 psig @ 4559.00 ft (KB)

Start Date: 2007.05.23

End Date: 2007.05.23

Capacity: 7000.00 psig

Start Time: 10:43:40

End Time: 17:46:18

Last Calib.: 2007.05.23

Time On Btm: 2007.05.23 @ 12:44:58

Time Off Btm: 2007.05.23 @ 15:48:27

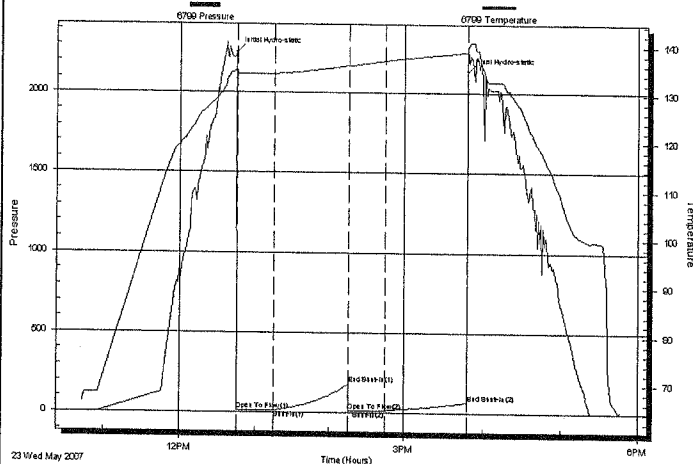
TEST COMMENT: IF Weak blow built to .5 " in bucket blow died after 28 minutes

ISI No blow back

FF No blow

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.08	135.11	Initial Hydro-static
1	9.56	134.04	Open To Flow (1)
30	13.40	134.21	Shut-In (1)
91	177.63	135.92	End Shut-In (1)
91	14.91	135.87	Open To Flow (2)
120	14.98	136.92	Shut-In (2)
184	67.11	138.78	End Shut-In (2)
184	2135.53	139.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 10%O 90%M	0.05

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

Zweygardt #2-2

250 N Water Ste 300
Wichita KS 67202

2 3 41W Cheyenne KS

Job Ticket: 27780

DST#: 2

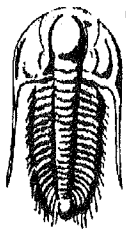
ATTN: Paul Gunzelman

Test Start: 2007.05.23 @ 10:43:38

Tool Information

Drill Pipe:	Length: 4073.00 ft	Diameter: 3.80 inches	Volume: 57.13 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 59.52 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4558.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 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			4540.00	
Hydraulic tool	5.00			4545.00	
Safety Joint	3.00			4548.00	
Packer	5.00			4553.00	23.00 Bottom Of Top Packer
Packer	5.00			4558.00	
Stubb	1.00			4559.00	
Recorder	0.00	6799	Inside	4559.00	
Perforations	36.00			4595.00	
Recorder	0.00	10270	Outside	4595.00	
Bullnose	3.00			4598.00	40.00 Bottom Packers & Anchor
Total Tool Length:		63.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Zweygartd #2-2

250 N Water Ste 300
Wichita KS 67202

2 3 41W Cheyenne KS

Job Ticket: 27780

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2007.05.23 @ 10:43:38

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 6.79 in³

Resistivity: ohm.m

Salinity: 700.00 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
10.00	OSM 10%O 90%M	0.049

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:

DST Test Number: 2

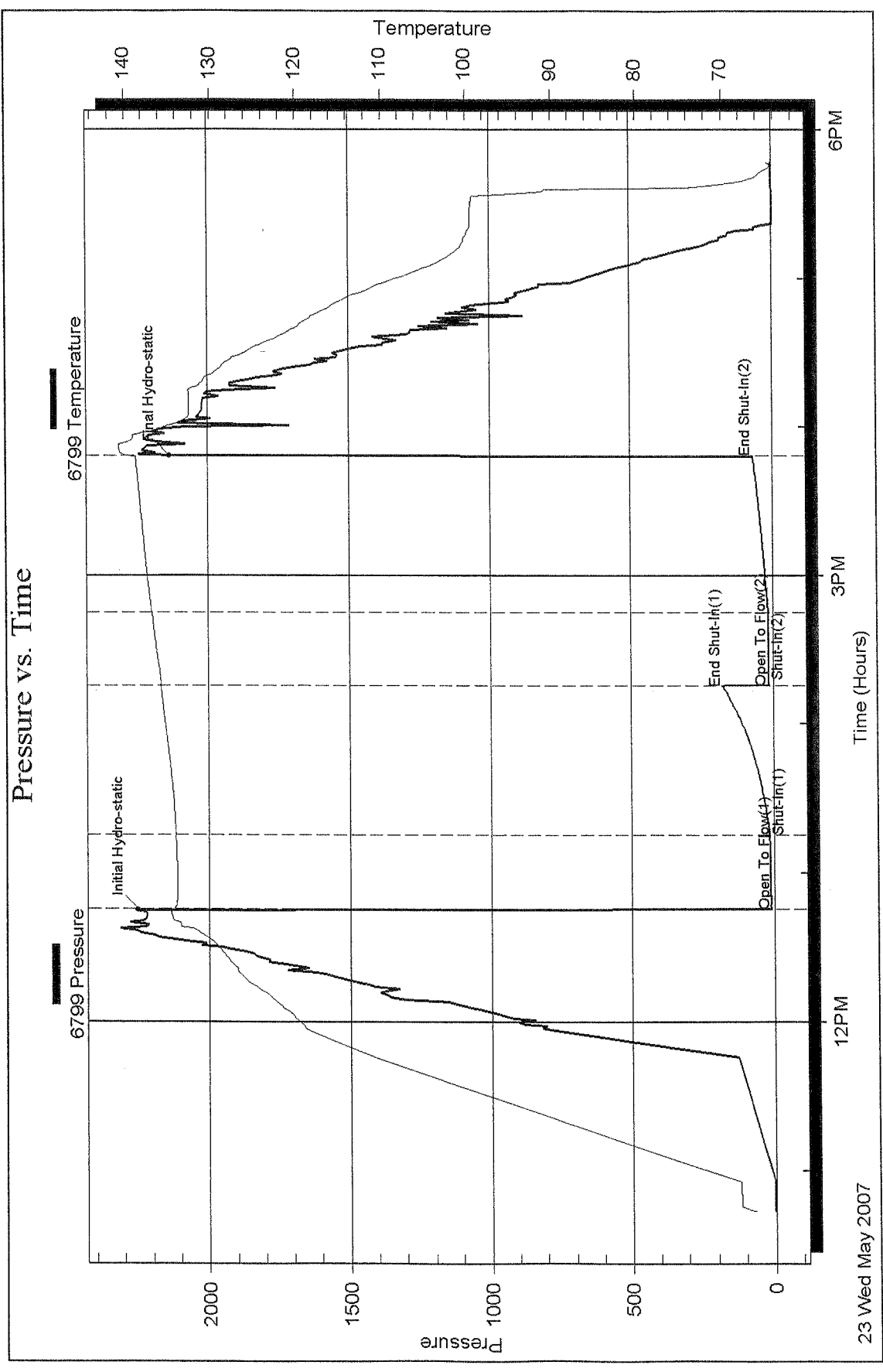
2 3 41W Cheyenne KS

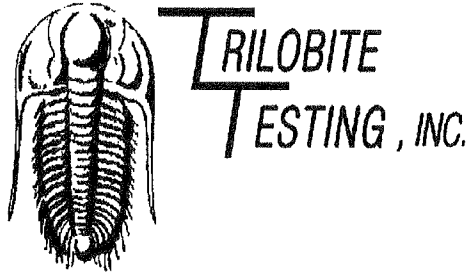
Murfin Drilling Company

Inside

Serial #: 6799

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

2 3 41W Cheyenne KS

Zweygardt #2-2

Start Date: 2007.05.24 @ 03:39:47

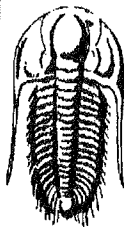
End Date: 2007.05.24 @ 10:49:07

Job Ticket #: 27781 DST #: 3

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

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Zweygardt #2-2

2 3 41W Cheyenne KS

Job Ticket: 27781

DST#: 3

Test Start: 2007.05.24 @ 03:39:47

GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:42:27

Time Test Ended: 10:49:07

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **4606.00 ft (KB) To 4654.00 ft (KB) (TVD)**

Total Depth: 4654.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3547.00 ft (KB)

3542.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 56.04 psig @ 4607.00 ft (KB)

Start Date: 2007.05.24

End Date: 2007.05.24

Capacity: 7000.00 psig

Last Calib.: 2007.05.24

Start Time: 03:39:49

End Time: 10:49:07

Time On Btm: 2007.05.24 @ 05:42:17

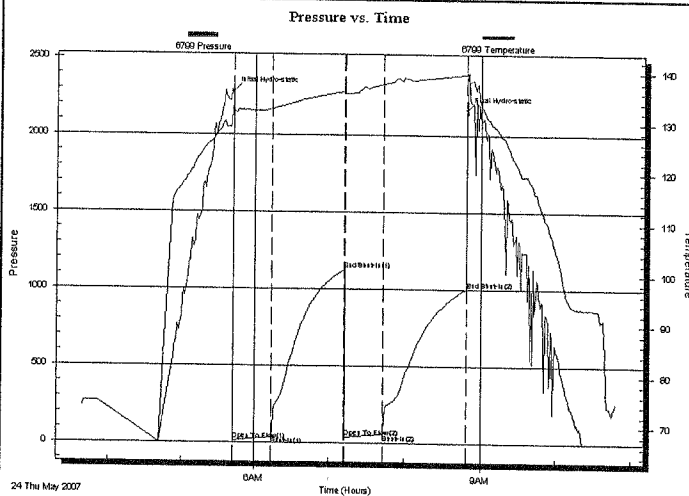
Time Off Btm: 2007.05.24 @ 08:48:27

TEST COMMENT: IF Weak blow slowly built to 2.5 " in bucket

ISI Bled off no blow back

FF No blow

FSI No blow back



PRESSURE SUMMARY

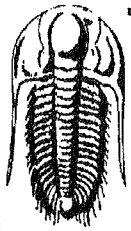
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.26	133.29	Initial Hydro-static
1	13.55	132.52	Open To Flow (1)
31	37.72	132.70	Shut-In(1)
90	1123.18	136.24	End Shut-In(1)
91	38.36	135.83	Open To Flow (2)
121	56.04	137.65	Shut-In(2)
186	1002.21	139.62	End Shut-In(2)
187	2163.47	140.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	OSM 2%O 98%M	0.49

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Zweygardt #2-2

2 3 41W Cheyenne KS

Job Ticket: 27781

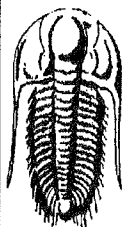
DST#: 3

Test Start: 2007.05.24 @ 03:39:47

Tool Information

Drill Pipe:	Length: 4104.00 ft	Diameter: 3.80 inches	Volume: 57.57 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume:	59.96 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4606.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	71.00 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			4588.00	
Hydraulic tool	5.00			4593.00	
Safety Joint	3.00			4596.00	
Packer	5.00			4601.00	23.00 Bottom Of Top Packer
Packer	5.00			4606.00	
Stubb	1.00			4607.00	
Recorder	0.00	6799	Inside	4607.00	
Perforations	44.00			4651.00	
Recorder	0.00	10270	Outside	4651.00	
Bullnose	3.00			4654.00	48.00 Bottom Packers & Anchor
Total Tool Length:		71.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Zweygardt #2-2

250 N Water Ste 300
Wichita KS 67202

2 3 41W Cheyenne KS

Job Ticket: 27781

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2007.05.24 @ 03:39:47

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:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	OSM 2%O 98%M	0.492

Total Length: 100.00 ft

Total Volume: 0.492 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

