

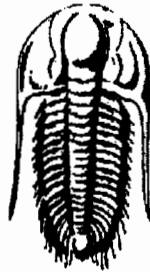
CONFIDENTIAL

ORIGINAL

15-137-20424

KCC

APR 22 2004



**TRILOBITE
TESTING, INC.**

CONFIDENTIAL

Murfin Drilling Company

Nelson #1-8

8-5S-24W Norton

DST # 1

Oread

2004.02.23

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste #300
Wichita KS 67202

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ATTN: Dan Blankenau

8-5S-24W Norton

Nelson #1-8

Start Date: 2004.02.23 @ 13:10:34

End Date: 2004.02.23 @ 20:07:04

Job Ticket #: 18069 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
JANPRO

DRILL STEM TEST REPORT

Murfin Drilling Company
200 W Water Ste #300
Wichita KS 67202
ATTN: Dan Blankenau

Well #1-8
8-5S-24W Norton
Job Ticket: 18069 DST#: 1
Test Start: 2004.02.23 @ 13:10:34

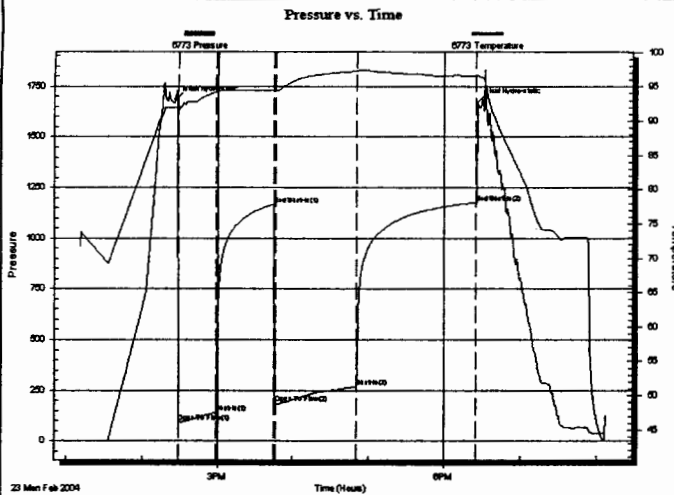
GENERAL INFORMATION:

Formation: **Oread**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: **14:28:34**
 Time Test Ended: **20:07:04**
 Interval: **3437.00 ft (KB) To 3492.00 ft (KB) (TVD)**
 Total Depth: **3492.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Rod Steinbrink**
 Unit No: **22**
 Reference Elevations: **2432.00 ft (KB)**
2427.00 ft (CF)
 KB to GR/CF: **5.00 ft**

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Serial #: **6773** Inside
 Press@RunDepth: **269.23 psig @ 3438.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2004.02.23** End Date: **2004.02.23** Last Calib.: **1899.12.30**
 Start Time: **13:10:49** End Time: **20:07:04** Time On Btm: **2004.02.23 @ 14:26:19**
 Time Off Btm: **2004.02.23 @ 18:25:49**

TEST COMMENT: F; Weak to fair built to 6"
 IS; No return
 FF; Weak blow built to 2"
 FS; No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.40	91.97	Initial Hydro-static
3	92.86	91.46	Open To Flow (1)
33	140.89	94.28	Shut-In(1)
79	1166.97	94.48	End Shut-In(1)
81	186.40	94.42	Open To Flow (2)
145	269.23	97.25	Shut-In(2)
239	1176.78	96.61	End Shut-In(2)
240	1672.94	96.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
500.00	Salt Water	2.59

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: Dan Blankenau

Nelson #1-8
8-5S-24W Norton
Job Ticket: 18069 **DST#: 1**
Test Start: 2004.02.23 @ 13:10:34

Tool Information

Drill Pipe:	Length: 2953.00 ft	Diameter: 3.80 inches	Volume: 41.42 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: 25000.00 lb
Drill Collar:	Length: 486.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 43.81 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3437.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	78.00 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			3411.00	
Shut In Tool	5.00			3416.00	
Hydraulic tool	5.00			3421.00	
Jars	5.00			3426.00	
Safety Joint	2.00			3428.00	
Packer	4.00			3432.00	27.00 Bottom Of Top Packer
Packer	5.00			3437.00	
Stubb	1.00			3438.00	
Recorder	0.00	6773	Inside	3438.00	
Perforations	12.00			3450.00	
Change Over Sub	1.00			3451.00	
Anchor	31.00			3482.00	
Change Over Sub	1.00			3483.00	
Recorder	0.00	13309	Outside	3483.00	
Bullnose	5.00			3488.00	51.00 Bottom Packers & Anchor

Total Tool Length: 78.00

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company
250 N Water Ste #300
Wichita KS 67202
ATTN: Dan Blankenau

Nelson #1-8
8-5S-24W Norton
Job Ticket: 18069 DST#: 1
Test Start: 2004.02.23 @ 13:10:34

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: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

Recovery Information

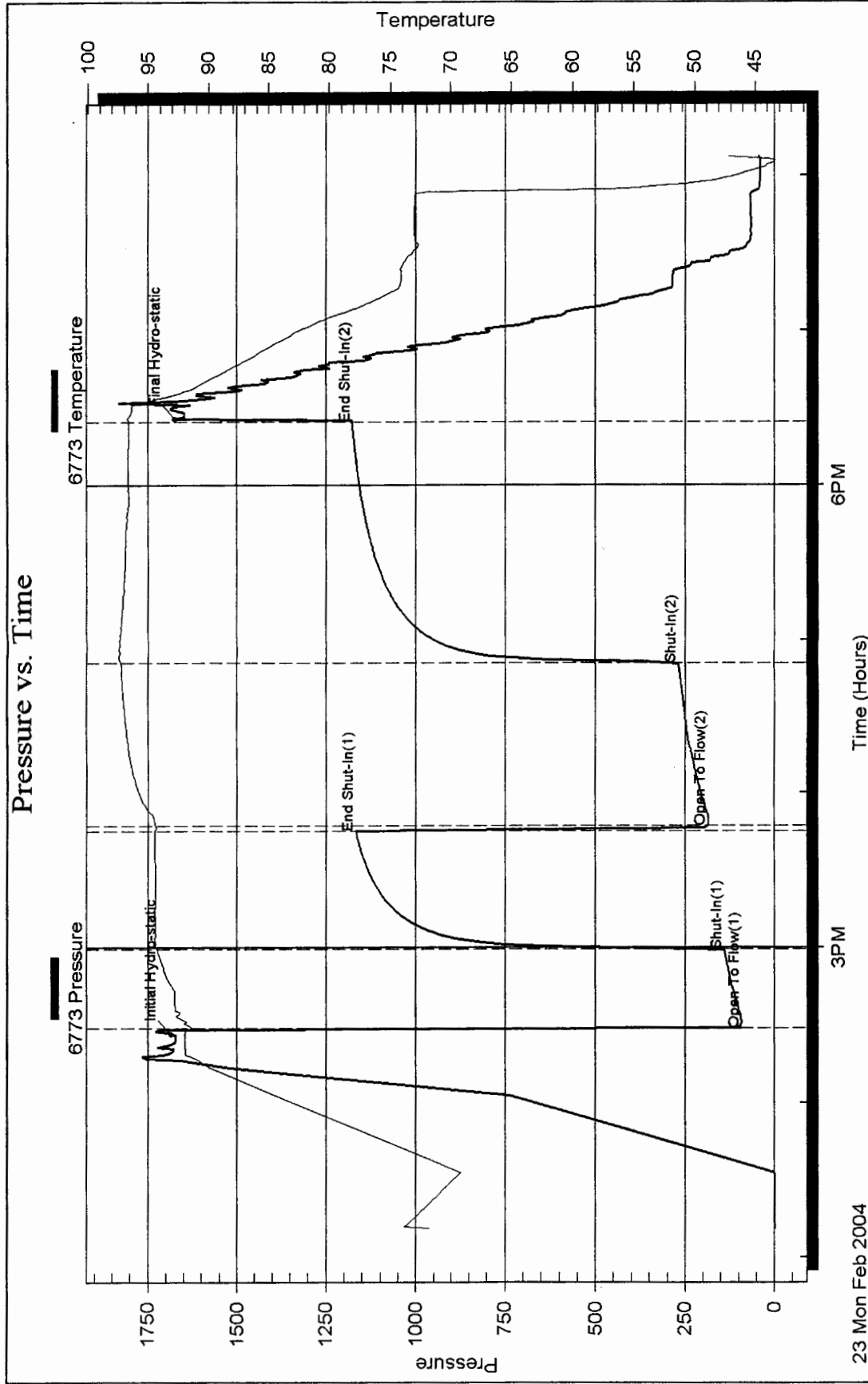
Recovery Table

Length ft	Description	Volume bbl
500.00	Salt Water	2.586

Total Length: 500.00 ft Total Volume: 2.586 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW .20 @ 80 deg = 32,000 Chlorides

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Pressure vs. Time



23 Mon Feb 2004

3PM

Time (Hours)

6PM



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste #300
Wichita KS 67202

ATTN: Dan Blankenau

8-5S-24W Norton

Nelson #1-8

Start Date: 2004.02.24 @ 04:15:20

End Date: 2004.02.24 @ 10:53:50

Job Ticket #: 18070 DST #: 2

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Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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DRILL STEM TEST REPORT

Murfin Drilling Company
 250 N Water Ste #300
 Wichita KS 67202
 ATTN: Dan Blankenau

Nelson #1-8
8-5S-24W Norton
 Job Ticket: 18070 **DST#: 2**
 Test Start: 2004.02.24 @ 04:15:20

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 05:26:20
 Time Test Ended: 10:53:50

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Test Type: **Conventional Bottom Hole**
 Tester: **Rod Steinbrink**
 Unit No: **22**
 Reference Elevations: **2432.00 ft (KB)**
2427.00 ft (CF)
 KB to GR/CF: **5.00 ft**

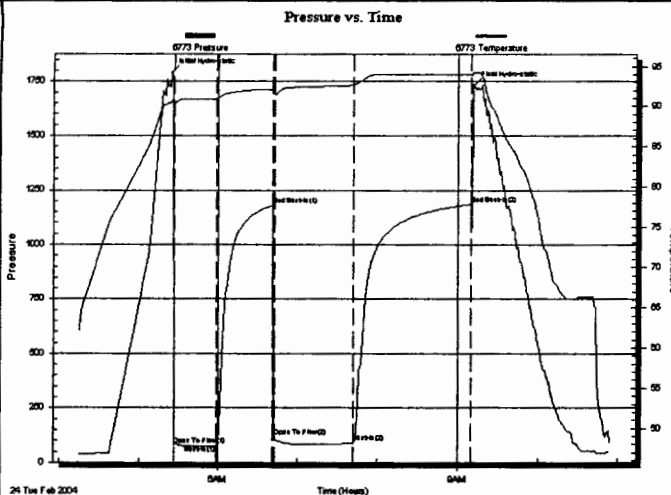
Interval: **3506.00 ft (KB) To 3537.00 ft (KB) (TVD)**
 Total Depth: **3537.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Serial #: 6773

Inside

Press@RunDepth: **91.06 psig @ 3507.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2004.02.24** End Date: **2004.02.24** Last Calib.: **1899.12.30**
 Start Time: **04:15:35** End Time: **10:53:50** Time On Btm: **2004.02.24 @ 05:24:35**
 Time Off Btm: **2004.02.24 @ 09:11:35**

TEST COMMENT: **F; Weak blow built to 4"**
IS; No return
FF; Weak blow built to 1"
FS; No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.52	90.63	Initial Hydro-static
2	80.32	90.19	Open To Flow (1)
35	79.80	90.97	Shut-in(1)
77	1179.93	92.11	End Shut-in(1)
78	120.62	91.53	Open To Flow (2)
138	91.06	92.71	Shut-in(2)
226	1185.57	93.97	End Shut-in(2)
227	1734.22	94.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MCO 80%oil 20%mud	0.10
160.00	SGO 8%gas 92%oil	0.79

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: Dan Blankenau

Nelson #1-8
8-5S-24W Norton
Job Ticket: 18070 **DST#: 2**
Test Start: 2004.02.24 @ 04:15:20

Tool Information

Drill Pipe:	Length: 3013.00 ft	Diameter: 3.80 inches	Volume: 42.26 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: 25000.00 lb
Drill Collar:	Length: 486.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 44.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3506.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 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			3480.00	
Shut in Tool	5.00			3485.00	
Hydraulic tool	5.00			3490.00	
Jars	5.00			3495.00	
Safety Joint	2.00			3497.00	
Packer	4.00			3501.00	27.00 Bottom Of Top Packer
Packer	5.00			3506.00	
Stubb	1.00			3507.00	
Recorder	0.00	6773	Inside	3507.00	
Perforations	25.00			3532.00	
Recorder	0.00	13309	Outside	3532.00	
Bullnose	5.00			3537.00	31.00 Bottom Packers & Anchor

Total Tool Length: 58.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Nelson #1-8

250 N Water Ste #300
Wichita KS 67202

8-5S-24W Norton

Job Ticket: 18070

DST#: 2

ATTN: Dan Blankenau

Test Start: 2004.02.24 @ 04:15:20

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 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: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	MCO 80%oil 20%mud	0.098
160.00	SGO 8%gas 92%oil	0.787

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

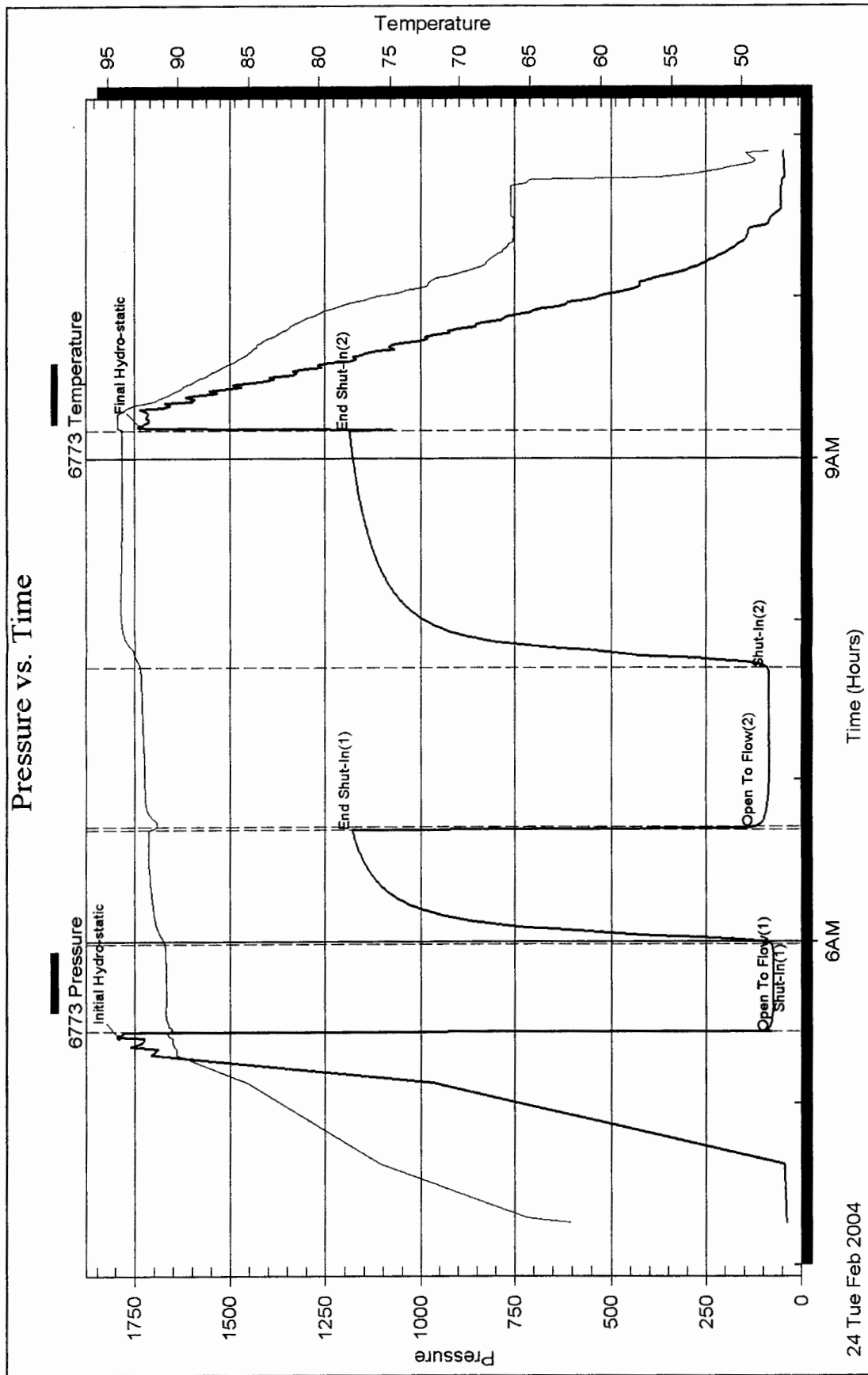
Laboratory Name:

Laboratory Location:

Recovery Comments:

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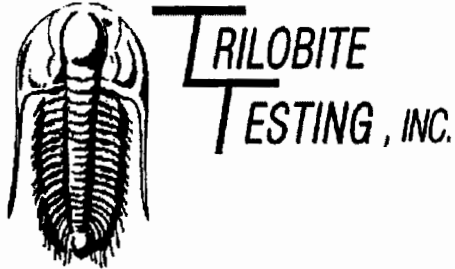
Pressure vs. Time



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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste #300
Wichita KS 67202

ATTN: Dan Blankenau

8-5S-24W Norton

Nelson #1-8

Start Date: 2004.02.24 @ 21:34:32

End Date: 2004.02.25 @ 05:02:02

Job Ticket #: 18071 DST #: 3

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PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

Nelson #1-8

8-5S-24W Norton

DST # 3

L/KC B-C

2004.02.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company
 250 N Water Ste #300
 Wichita KS 67202
 ATTN: Dan Blankenau

Nelson #1-8
8-5S-24W Norton
 Job Ticket: 18071 **DST#: 3**
 Test Start: 2004.02.24 @ 21:34:32

GENERAL INFORMATION:

Formation: **L/KC B-C**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **23:16:17**
 Time Test Ended: **05:02:02**

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Test Type: **Conventional Bottom Hole**
 Tester: **Rod Steinbrink**
 Unit No: **22**

Interval: **3546.00 ft (KB) To 3600.00 ft (KB) (TVD)**
 Total Depth: **3600.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

KCO WICHITA

Reference Elevations: **2432.00 ft (KB)**
2427.00 ft (CF)
 KB to GR/CF: **5.00 ft**

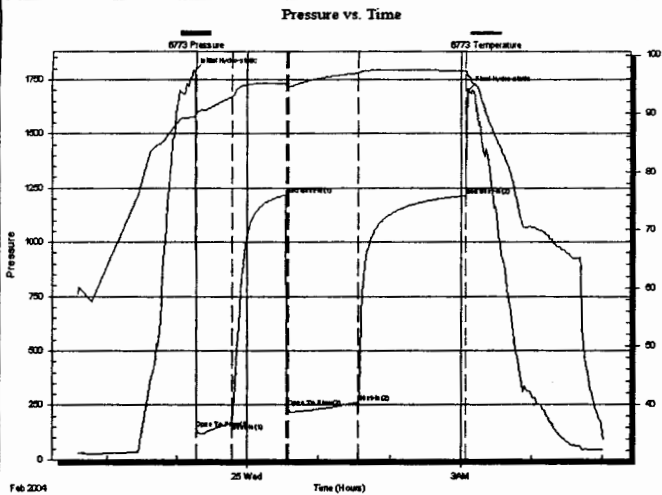
Serial #: 6773

Inside

Press@RunDepth: **262.62 psig @ 3547.00 ft (KB)**
 Start Date: **2004.02.24** End Date: **2004.02.25**
 Start Time: **21:34:47** End Time: **05:02:02**

Capacity: **7000.00 psig**
 Last Calib.: **1899.12.30**
 Time On Btm: **2004.02.24 @ 23:14:02**
 Time Off Btm: **2004.02.25 @ 03:05:32**

TEST COMMENT: **F; Fair to strong off bttm in 12 mins**
IS; Weak return built to 1"
FF; Fair to strong off bttm in 17 mins
FSI; Weak return built to 10"



PRESSURE SUMMARY

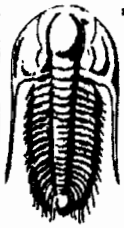
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.20	89.38	Initial Hydro-static
3	143.19	90.03	Open To Flow (1)
33	169.03	92.85	Shut-In(1)
79	1219.25	95.16	End Shut-In(1)
81	236.51	94.35	Open To Flow (2)
139	262.62	96.93	Shut-In(2)
230	1214.56	97.28	End Shut-In(2)
232	1700.54	96.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Water	0.64
330.00	GMWCO 30%gas 25%oil 25%w tr 20%in	1.62
180.00	CGO 15%gas 85%oil	2.29
	530 GIP	

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: Dan Blankenau

Nelson #1-8
8-5S-24W Norton
Job Ticket: 18071 **DST#: 3**
Test Start: 2004.02.24 @ 21:34:32

Tool Information

Drill Pipe:	Length: 3046.00 ft	Diameter: 3.80 inches	Volume: 42.73 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: 25000.00 lb
Drill Collar:	Length: 486.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 45.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3546.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 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
Change Over Sub	1.00			3520.00	
Shut In Tool	5.00			3525.00	
Hydraulic tool	5.00			3530.00	
Jars	5.00			3535.00	
Safety Joint	2.00			3537.00	
Packer	4.00			3541.00	27.00 Bottom Of Top Packer
Packer	5.00			3546.00	
Stubb	1.00			3547.00	
Recorder	0.00	6773	inside	3547.00	
Perforations	15.00			3562.00	
Change Over Sub	1.00			3563.00	
Anchor	31.00			3594.00	
Change Over Sub	1.00			3595.00	
Recorder	0.00	13309	Outside	3595.00	
Bullnose	5.00			3600.00	54.00 Bottom Packers & Anchor

Total Tool Length: 81.00

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Nelson #1-8

250 N Water Ste #300
Wichita KS 67202

8-5S-24W Norton

Job Ticket: 18071

DST#: 3

ATTN: Dan Blankenau

Test Start: 2004.02.24 @ 21:34:32

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Water	0.639
330.00	GMWCO 30%gas 25%oil 25%w tr 20%mud	1.623
180.00	CGO 15%gas 85%oil	2.288
	530 GIP	

Total Length: 640.00 ft Total Volume: 4.550 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .22 @ 65 deg = 36,000 Chlorides

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Serial #: 6773

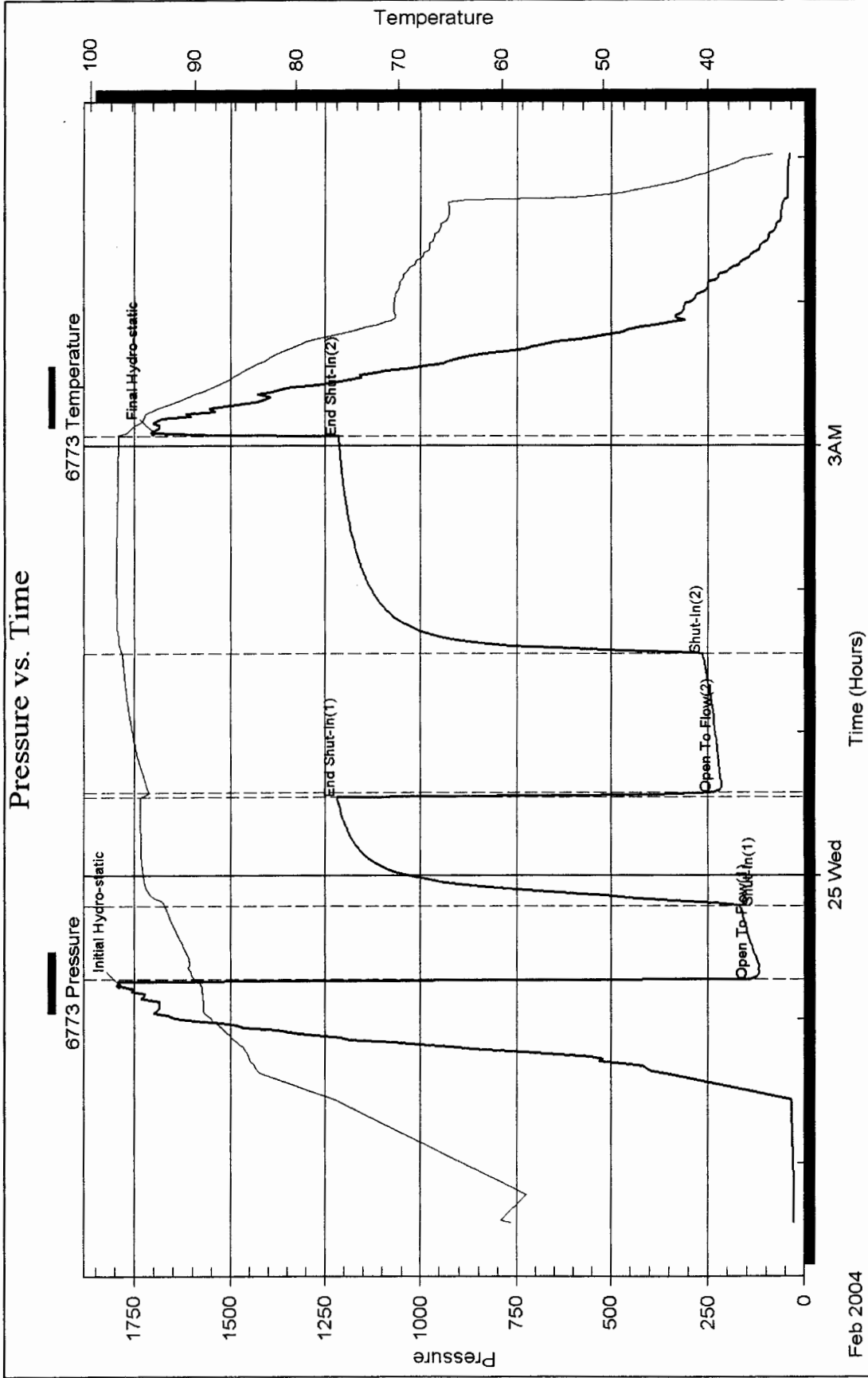
Inside

Murfin Drilling Company

8-5S-24W Norton

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 18071

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Printed: 2004.03.09 @ 14:46:48 Page 5



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste #300
Wichita KS 67202

ATTN: Dan Blankenau

8-5S-24W Norton

Nelson #1-8

Start Date: 2004.02.25 @ 20:30:35

End Date: 2004.02.26 @ 03:50:35

Job Ticket #: 18072 DST #: 4

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

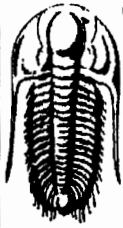
Nelson #1-8

8-5S-24W Norton

DST # 4

L/KC "H thru L"

2004.02.25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company
 250 N Water Ste #300
 Wichita KS 67202
 ATTN: Dan Blankenau

Nelson #1-8
8-5S-24W Norton
 Job Ticket: 18072 **DST#: 4**
 Test Start: 2004.02.25 @ 20:30:35

GENERAL INFORMATION:

Formation: **L/KC "H thru L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:05:35
 Time Test Ended: 03:50:35
 Interval: **3628.00 ft (KB) To 3720.00 ft (KB) (TVD)**
 Total Depth: **3720.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Rod Steinbrink
 Unit No: 22
 Reference Elevations: 2432.00 ft (KB)
 2427.00 ft (CF)
 KB to GR/CF: 5.00 ft

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 FEB 23 2004
 WICHITA

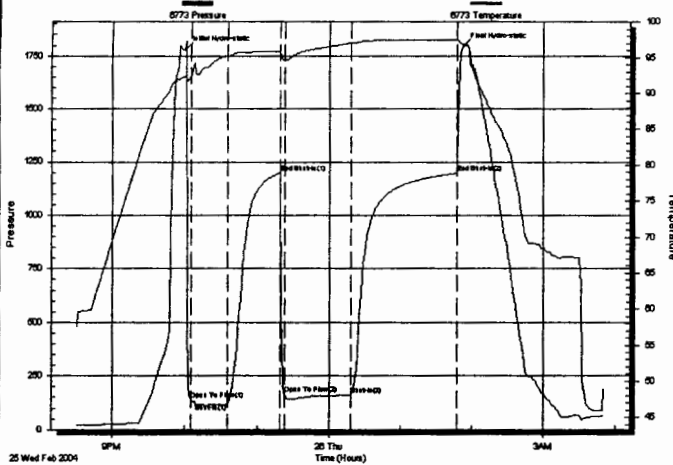
Serial #: 6773

Inside

Press@RunDepth: 162.55 psig @ 3629.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2004.02.25 End Date: 2004.02.26 Last Calib.: 1899.12.30
 Start Time: 20:30:35 End Time: 03:50:35 Time On Btm: 2004.02.25 @ 22:00:20
 Time Off Btm: 2004.02.26 @ 01:52:50

TEST COMMENT: F; Weak to fair built to 8"
 IS; Weak return at surface for 15 mins
 FF; Weak to fair off btm at 60 mins
 FS; No return

Pressure vs. Time



PRESSURE SUMMARY

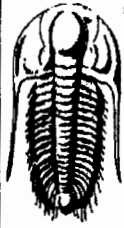
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.38	92.28	Initial Hydro-static
6	136.75	92.57	Open To Flow (1)
36	121.81	95.27	Shut-In (1)
79	1199.37	95.88	End Shut-In (1)
83	163.76	94.73	Open To Flow (2)
138	162.55	97.09	Shut-In (2)
228	1196.95	97.49	End Shut-In (2)
233	1795.17	96.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 80%w tr 20%mud	0.59
60.00	WOCM 15%oil 15%w tr 70%mud	0.30
130.00	CO 5%gas 95%oil	0.64

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Nelson #1-8

250 N Water Ste #300
Wichita KS 67202

8-5S-24W Norton

Job Ticket: 18072

DST#: 4

ATTN: Dan Blankenau

Test Start: 2004.02.25 @ 20:30:35

Tool Information

Drill Pipe:	Length: 3138.00 ft	Diameter: 3.80 inches	Volume: 44.02 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: 25000.00 lb
Drill Collar:	Length: 486.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 46.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3628.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	119.00 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			3602.00	
Shut in Tool	5.00			3607.00	
Hydraulic tool	5.00			3612.00	
Jars	5.00			3617.00	
Safety Joint	2.00			3619.00	
Packer	4.00			3623.00	27.00 Bottom Of Top Packer
Packer	5.00			3628.00	
Stubb	1.00			3629.00	
Recorder	0.00	6773	Inside	3629.00	
Perforations	22.00			3651.00	
Change Over Sub	1.00			3652.00	
Anchor	62.00			3714.00	
Change Over Sub	1.00			3715.00	
Recorder	0.00	13309	Outside	3715.00	
Bullnose	5.00			3720.00	92.00 Bottom Packers & Anchor

Total Tool Length: 119.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company
250 N Water Ste #300
Wichita KS 67202
ATTN: Dan Blankenau

Nelson #1-8
8-5S-24W Norton
Job Ticket: 18072 **DST#: 4**
Test Start: 2004.02.25 @ 20:30:35

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 80%w tr 20%mud	0.590
60.00	WOCM 15%oil 15%w tr 70%mud	0.295
130.00	CO 5%gas 95%oil	0.639

Total Length: 310.00 ft Total Volume: 1.524 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .22 @ 65 deg = 36,000 Chloides

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MURFIN DRILLING
WICHITA

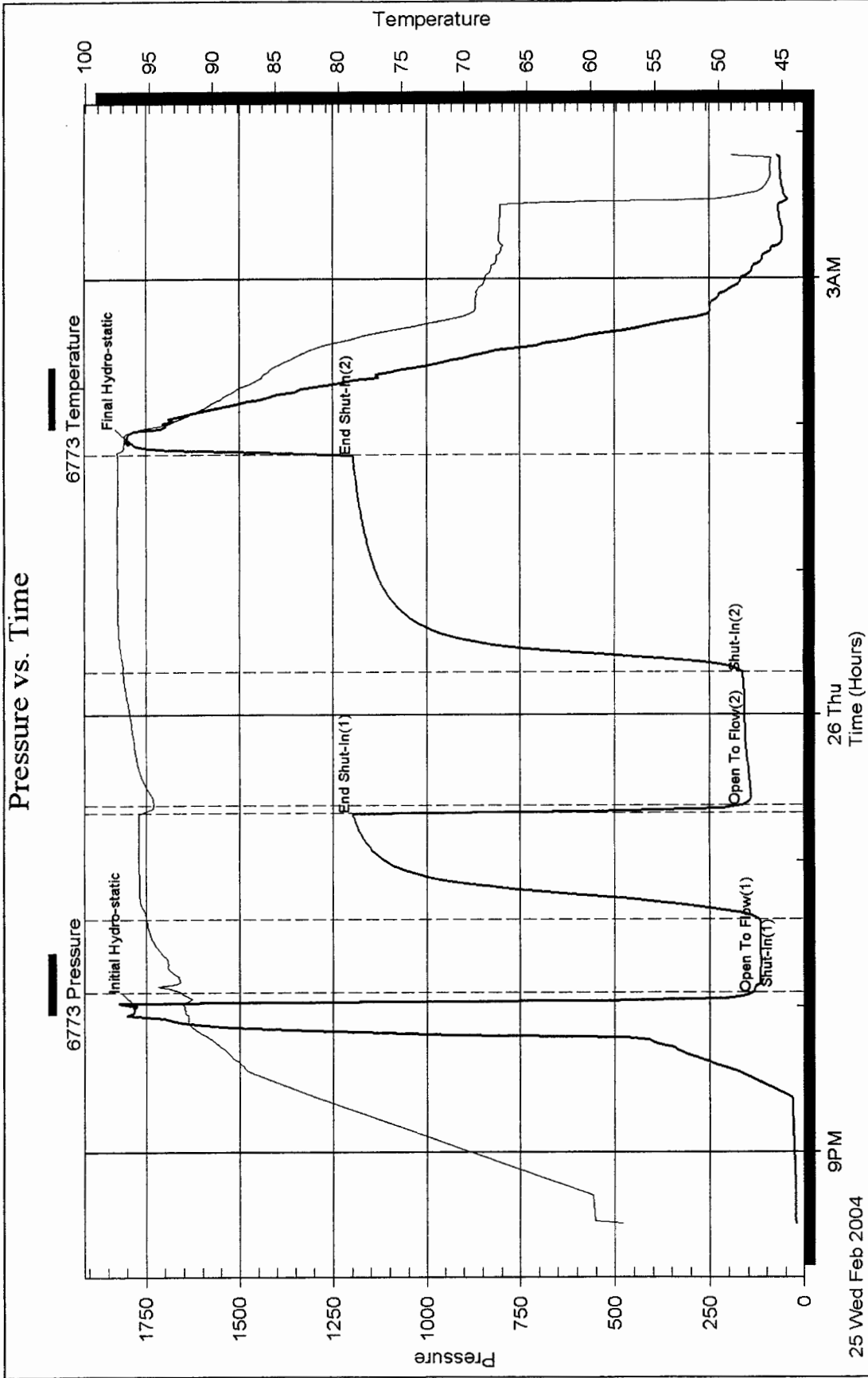
Serial #: 6773

Inside

Murfin Drilling Company

8-5S-24W Norton

DST Test Number: 4



25 Wed Feb 2004

9PM

26 Thu

Time (Hours)

3AM

Trilobite Testing, Inc

Ref. No: 18072

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