

CONFIDENTIAL

ORIGINAL

RECEIVED

COURT REPORT

KCC WICHITA

15-007-22703

KCC

JUN 13 2002

CONFIDENTIAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **CMX**

150 N. Main Ste. 1026
Wichita Ks. 67202

**Release
JUL 15 2004
From
Confidential**

ATTN: Doug McGinness Jr.

16-35s-13w Barber Ks

Albert #3

Start Date: 2002.04.20 @ 03:02:08

End Date: 2002.04.20 @ 10:04:53

Job Ticket #: 15773 DST #: 1

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

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX

Albert #3

150 N.Main Ste. 1026
Wichita Ks. 67202

16-35s-13w Barber Ks

Job Ticket: 15773

DST#: 1

ATTN: Doug McGinness Jr.

Test Start: 2002.04.20 @ 03:02:08

GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:02:08
Time Test Ended: 10:04:53

Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 23

Interval: **4016.00 ft (KB) To 4043.00 ft (KB) (TVD)**
Total Depth: 4043.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1590.00 ft (KB)
1579.00 ft (CF)
KB to GR/CF: 11.00 ft

KCC
JUN 13 2002
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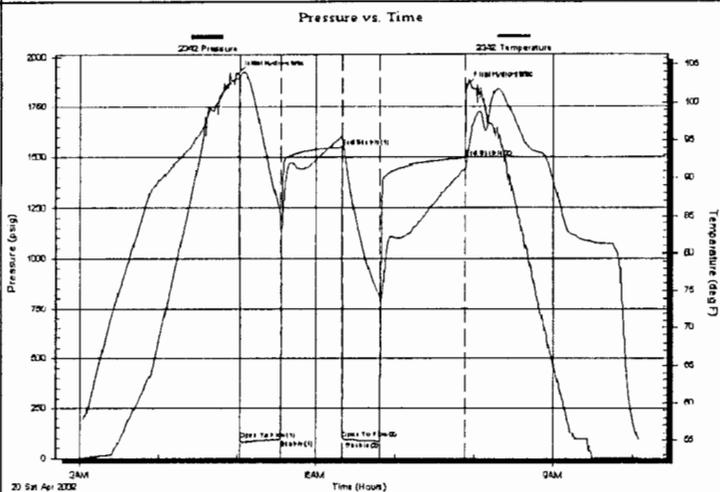
Serial #: 2342

Inside

Press@RunDepth: 86.35 psig @ 4017.00 ft (KB)
Start Date: 2002.04.20 End Date: 2002.04.20
Start Time: 03:02:09 End Time: 10:04:53

Capacity: 7000.00 psig
Last Calib.: 2002.04.20
Time On Btm: 2002.04.20 @ 04:59:53
Time Off Btm: 2002.04.20 @ 07:53:53

TEST COMMENT: IF: Strong blow . GTS in 4 mins. (see gas volume report)
ISI: No blow .
FF: Strong blow . (see gas volume report)
FSI: No blow .



PRESSURE SUMMARY

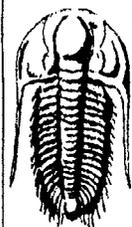
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1913.97	103.27	Initial Hydro-static
3	93.24	103.52	Open To Flow (1)
33	93.80	85.15	Shut-In(1)
80	1549.89	95.51	End Shut-In(1)
80	98.61	95.40	Open To Flow (2)
109	86.35	74.08	Shut-In(2)
173	1494.33	91.19	End Shut-In(2)
174	1457.31	92.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drig. mud.	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	15.00	459.22
Last Gas Rate	0.75	22.00	568.56
Max. Gas Rate	0.75	22.00	568.56



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX **RECEIVED** **Albert #3**
 150 N.Main Ste. 1026 **NOV 2001** **16-35s-13w Barber Ks**
 Wichita Ks. 67202 **NO WICHITA** Job Ticket: 15773 **DST#: 1**
 ATTN: Doug McGinness Jr. Test Start: 2002.04.20 @ 03:02:08

Tool Information

Drill Pipe:	Length: 3821.00 ft	Diameter: 3.80 inches	Volume: 53.60 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: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 54.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4016.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3990.00	
S.I. Tool	5.00			3995.00	
HMV	5.00			4000.00	
Jars	5.00			4005.00	
Safety Joint	2.00			4007.00	
Packer	4.00			4011.00	27.00 Bottom Of Top Packer
Packer	5.00			4016.00	
Stubb	1.00			4017.00	
Recorder	0.00	2342	Inside	4017.00	
Perforations	21.00			4038.00	
Recorder	0.00	10248	Outside	4038.00	
Bullnose	5.00			4043.00	27.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX **Albert #3**
 150 N.Main Ste. 1026 **16-35s-13w Barber Ks**
 Wichita Ks. 67202 Job Ticket: 15773 **DST#: 1**
 ATTN: Doug McGinness Jr. Test Start: 2002.04.20 @ 03:02:08

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: 6000 ppm
 Viscosity: 40.00 sec/qt Cushion Volume: bbl
 Water Loss: 17.57 in³ Gas Cushion Type:
 Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig
 Salinity: 6000.00 ppm
 Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drig.mud.	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 1 Serial #: gp-1
 Laboratory Name: Caraway Laboratory Location: Liberal KS
 Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

CMX
150 N.Main Ste. 1026
Wichita Ks. 67202
ATTN: Doug McGinness Jr.

Albert #3
16-35s-13w Barber Ks
Job Ticket: 15773 **DST#: 1**
Test Start: 2002.04.20 @ 03:02:08

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	0.75	15.00	459.22
1	10	0.75	15.00	459.22
1	20	0.75	17.00	490.46
1	30	0.75	18.00	506.08
2	10	0.75	21.00	552.94
2	20	0.75	22.00	568.56

Handwritten notes:
16-35s-13w
Barber Ks
WICHITA

DST Test Number: 1

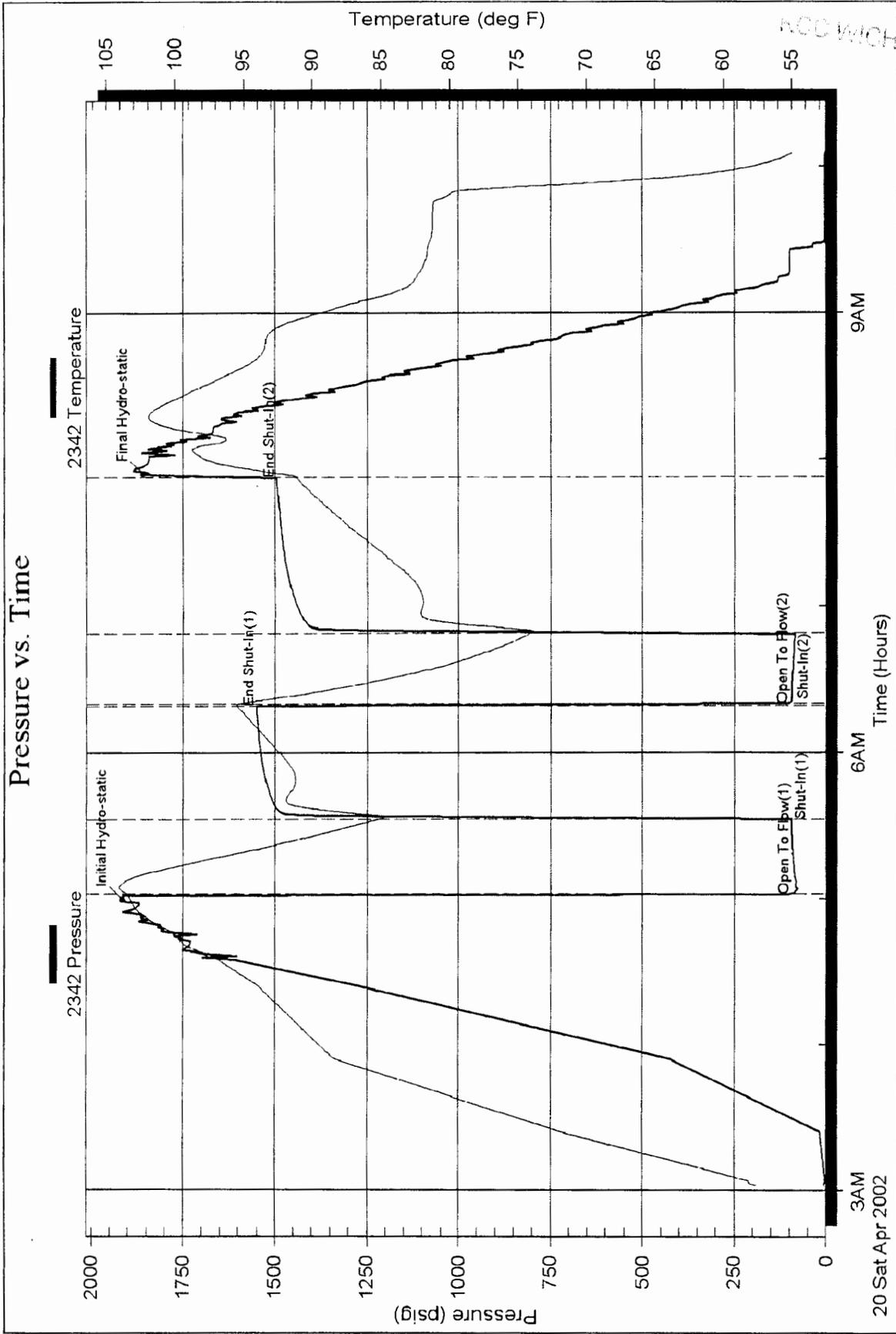
16-35s-13w Barber Ks

CMX

Inside

Serial #: 2342

Pressure vs. Time



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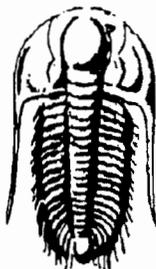
JUN 13 2002

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KCC WICHITA



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TESTING, INC.

Release
JUL 15 2004
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DRILL STEM TEST REPORT

Prepared For: **CMX**

150 N. Main Ste. 1026
Wichita Ks. 67202

ATTN: Doug McGinness Jr.

16-35s-13w Barber Ks

Albert #3

Start Date: 2002.04.23 @ 15:26:27

End Date: 2002.04.23 @ 23:06:42

Job Ticket #: 15774 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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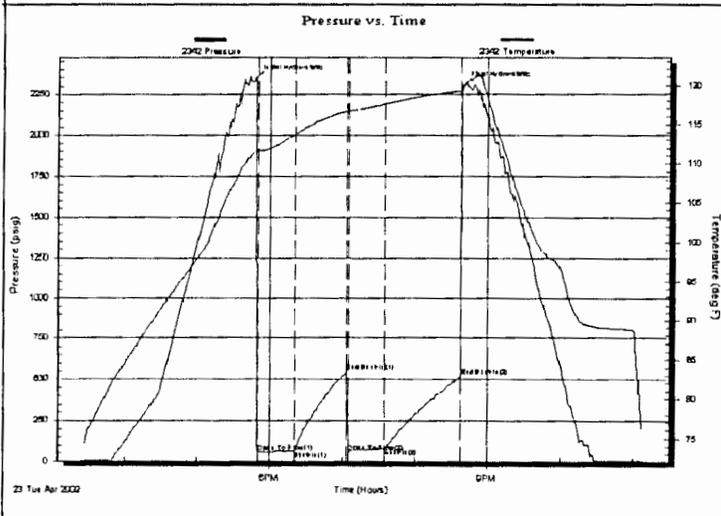
ORIGINAL

 <p>TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT	
	CMX 150 N.Main Ste. 1026 Wichita Ks. 67202 ATTN: Doug McGinness Jr.	Albert #3 KCC JUN 13 2002 16-35s-13w Barber Ks Job Ticket: 15774 DST#: 2 Test Start: 2002.04.23 @ 15:26:27

GENERAL INFORMATION:		CONFIDENTIAL
Formation: Miss. Deviated: No Whipstock: ft (KB) Time Tool Opened: 17:50:27 Time Test Ended: 23:06:42 Interval: 4900.00 ft (KB) To 5070.00 ft (KB) (TVD) Total Depth: 5070.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Poor	Test Type: Conventional Bottom Hole Tester: Gary Pevoteaux Unit No: 23 Reference Elevations: 1590.00 ft (KB) 1579.00 ft (CF) KB to GR/CF: 11.00 ft	

Serial #: 2342 Inside Press@RunDepth: 79.22 psig @ 4901.00 ft (KB) Start Date: 2002.04.23 End Date: 2002.04.23 Start Time: 15:26:28 End Time: 23:06:42	Capacity: 7000.00 psig Last Calib.: 2002.04.24 Time On Btm: 2002.04.23 @ 17:47:57 Time Off Btm: 2002.04.23 @ 20:38:57
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TEST COMMENT: IF: Strong blow . B.O.B. in 10 secs. GTS in 21 mins. TSTM
 ISI: No blow .
 ISI: Strong blow . (see gas volume report)
 FSI: No blow .



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2343.76	111.57	Initial Hydro-static
3	60.00	111.70	Open To Flow (1)
33	61.43	113.70	Shut-In(1)
76	545.77	116.65	End Shut-In(1)
77	60.00	116.67	Open To Flow (2)
108	79.22	117.61	Shut-In(2)
170	516.82	119.29	End Shut-In(2)
171	2304.48	119.49	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
130.00	SOCM 5%o 10%w 85%m	0.64

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.00	24.43
Last Gas Rate	0.13	3.00	6.51
Max. Gas Rate	0.13	3.00	6.51



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Wichita
McGinness
WICHITA TOOL DIAGRAM

CMX
150 N.Main Ste. 1026
Wichita Ks. 67202
ATTN: Doug McGinness Jr.

Albert #3
16-35s-13w Barber Ks
Job Ticket: 15774 DST#: 2
Test Start: 2002.04.23 @ 15:26:27

Tool Information

Drill Pipe:	Length: 4722.00 ft	Diameter: 3.80 inches	Volume: 66.24 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: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 67.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4900.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	170.00 ft			
Tool Length:	197.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4874.00	
S.I. Tool	5.00			4879.00	
HMV	5.00			4884.00	
Jars	5.00			4889.00	
Safety Joint	2.00			4891.00	
Packer	4.00			4895.00	27.00 Bottom Of Top Packer
Packer	5.00			4900.00	
Stubb	1.00			4901.00	
Recorder	0.00	2342	Inside	4901.00	
Perforations	4.00			4905.00	
C.O. Sub	1.00			4906.00	
Blank Spacing	154.00			5060.00	
C.O. Sub	1.00			5061.00	
Perforations	4.00			5065.00	
Recorder	0.00	10248	Outside	5065.00	
Bullnose	5.00			5070.00	170.00 Bottom Packers & Anchor
Total Tool Length:	197.00				

 <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT	NCS WICHITA FLUID SUMMARY
	<p>CMX</p> <p>150 N.Main Ste. 1026 Wichita Ks. 67202</p> <p>ATTN: Doug McGinness Jr.</p>	<p>Albert #3</p> <p>16-35s-13w Barber Ks</p> <p>Job Ticket: 15774 DST#: 2</p> <p>Test Start: 2002.04.23 @ 15:26:27</p>

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:	5000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	SOCM 5%o 10%w 85%m	0.639

Total Length: 130.00 ft Total Volume: 0.639 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:

 <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT		GAS RATES
	<p>CMX</p> <p>150 N.Main Ste. 1026 Wichita Ks. 67202</p> <p>ATTN: Doug McGinness Jr.</p>	<p>Albert #3</p> <p>16-35s-13w Barber Ks</p> <p>Job Ticket: 15774 DST#: 2</p> <p>Test Start: 2002.04.23 @ 15:26:27</p>	

Gas Rates Information

Temperature: 59 deg C
 Relative Density: 0.65
 Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	5	0.25	1.00	24.43
2	5	0.25	1.00	24.43
2	10	0.13	1.00	5.76
2	30	0.13	3.00	6.51

15774-13
 16-35s-13w
 Barber Ks
 4/24/02

DST Test Number: 2

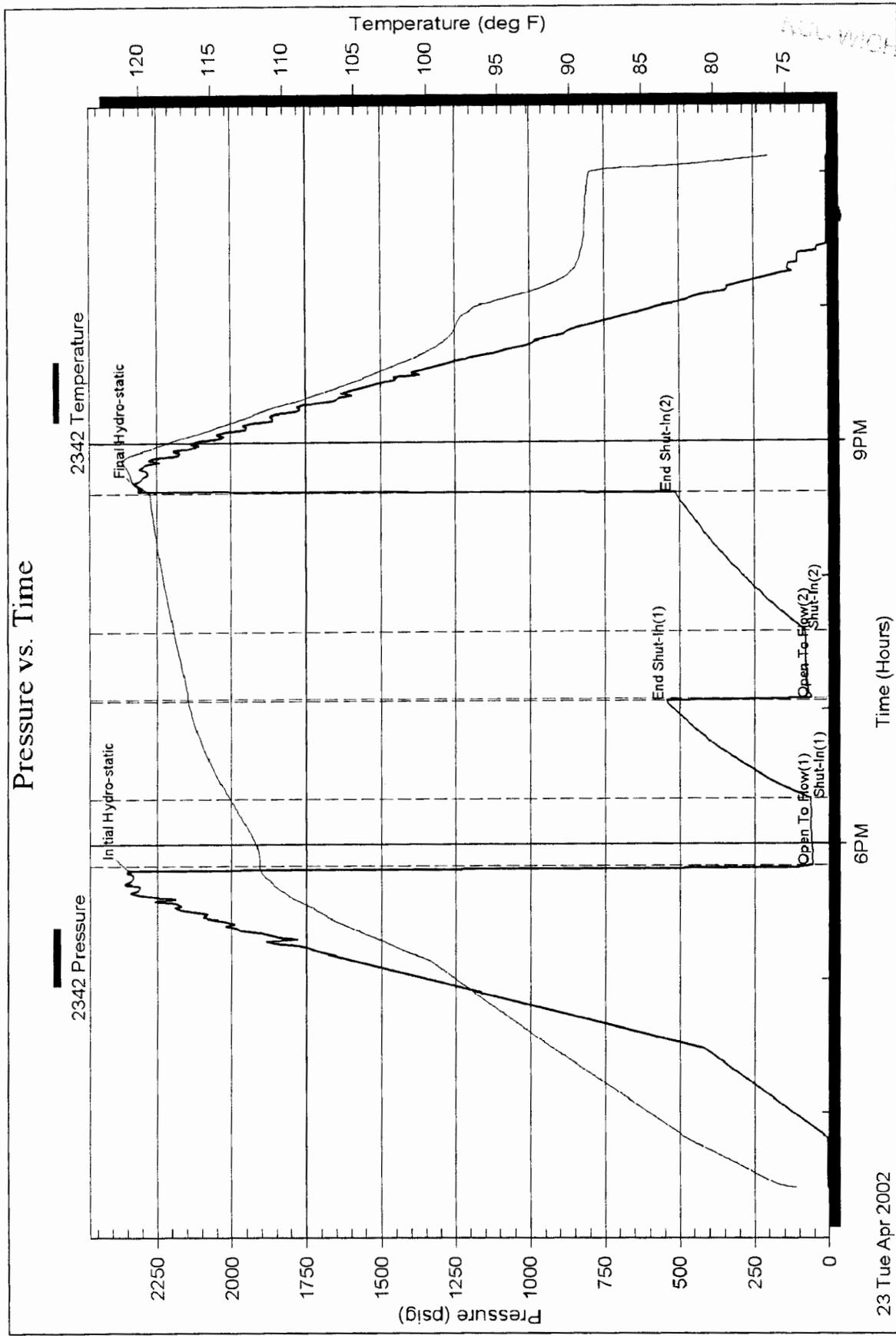
16-35s-13w Barber Ks

CMX

Inside

Serial #: 2342

Pressure vs. Time



23 Tue Apr 2002

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Ref. No: 15774

Trilobite Testing, Inc

APR 24 2002
NEW WICHITA