

CONFIDENTIAL

McCoy Petl, Corp.

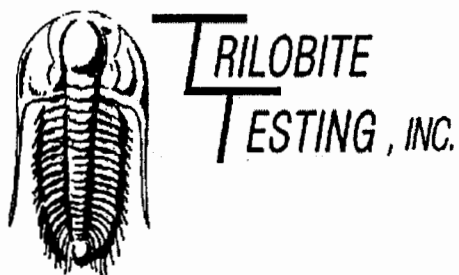
Yowell A#1-2

2-31s-8w Harper Ks.

DST # 1

Lans K.C.

2004.05.08



**DRILL STEM TEST REPORT**

**KCC**

Prepared For: **McCoy Petl. Corp.**  
8080 E. Central Ste. 300  
Wichita Ks. 67206

**JUN 23 2004**

CONFIDENTIAL

ATTN: Tim Lauer


**2-31s-8w Harper Ks.**

**Yowell A#1-2**

Start Date: 2004.05.08 @ 18:26:54  
End Date: 2004.05.09 @ 02:55:24  
Job Ticket #: 18991                      DST #: 1

**RECEIVED  
JUN 24 2004  
KCC WICHITA**

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

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McCoy Petl. Corp.  
8080 E. Central Ste. 300  
Wichita Ks. 67206  
ATTN: Tim Lauer

**Yowell A#1-2**  
**2-31s-8w Harper Ks.**  
Job Ticket: 18991      **DST#: 1**  
Test Start: 2004.05.08 @ 18:26:54

**GENERAL INFORMATION:**

Formation: **Lans KC.**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 20:58:24  
 Time Test Ended: 02:55:24

Interval: **3986.00 ft (KB) To 4046.00 ft (KB) (TVD)**  
 Total Depth: **4046.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**

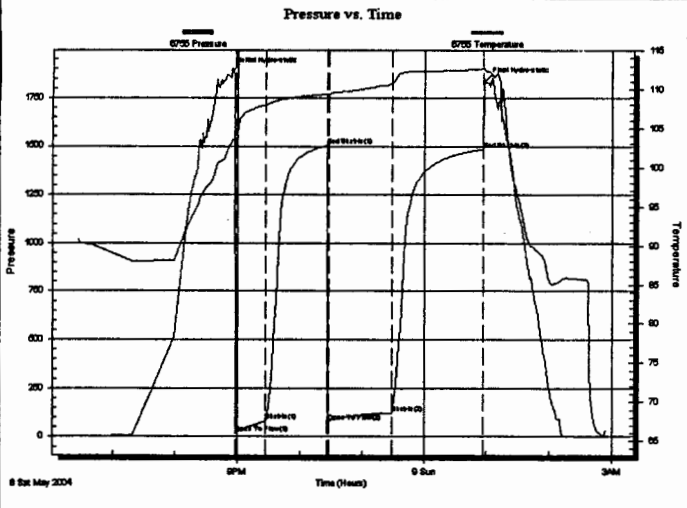
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 KCC WICHITA

Test Type: Conventional Bottom Hole  
 Tester: Gary Pevoteaux  
 Unit No: 23  
 Reference Elevations: 1669.00 ft (KB)  
 1660.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 6755      Inside**

Press@RunDepth: 121.49 psig @ 3987.00 ft (KB)	Capacity: 7000.00 psig
Start Date: 2004.05.08      End Date: 2004.05.09	Last Calib.: 2004.05.09
Start Time: 18:26:59      End Time: 02:55:23	Time On Btm: 2004.05.08 @ 20:55:09
	Time Off Btm: 2004.05.09 @ 00:58:39

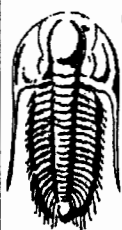
**TEST COMMENT:** IF: Weak to fair blow . 1 - 12".  
 IS: No blow.  
 FF: Strong blow . B.O.B. in 2 mins.  
 FSI: Weak blow . 1/4".



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1889.28	103.48	Initial Hydro-static
4	18.84	103.32	Open To Flow (1)
33	80.05	108.01	Shut-in(1)
92	1504.55	109.41	End Shut-in(1)
93	74.90	109.42	Open To Flow (2)
154	121.49	110.80	Shut-in(2)
242	1485.12	112.67	End Shut-in(2)
244	1839.03	112.45	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
180.00	GOCM 20%g 20%o 60%m	0.89
125.00	GOCM 15%g 18%o 67%g	1.21
0.00	650 ft. of gas in pipe	0.00

Gas Rates			
	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petr. Corp.

**Yowell A#1-2**

8080 E. Central Ste. 300  
Wichita Ks. 67206

**2-31s-8w Harper Ks.**

Job Ticket: 18991

**DST#: 1**

ATTN: Tim Lauer

Test Start: 2004.05.08 @ 18:26:54

### Tool Information

Drill Pipe:	Length: 3742.00 ft	Diameter: 3.80 inches	Volume: 52.49 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 53.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3986.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		


Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3965.00	
Shut In Tool	5.00			3970.00	
Hydraulic tool	5.00			3975.00	
Safety Joint	2.00			3977.00	
Packer	4.00			3981.00	22.00 Bottom Of Top Packer
Packer	5.00			3986.00	
Stubb	1.00			3987.00	
Recorder	0.00	6755	Inside	3987.00	
Perforations	3.00			3990.00	
Change Over Sub	1.00			3991.00	
Blank Spacing	32.00			4023.00	
Change Over Sub	1.00			4024.00	
Perforations	17.00			4041.00	
Recorder	0.00	13222	Outside	4041.00	
Bullnose	5.00			4046.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 82.00**

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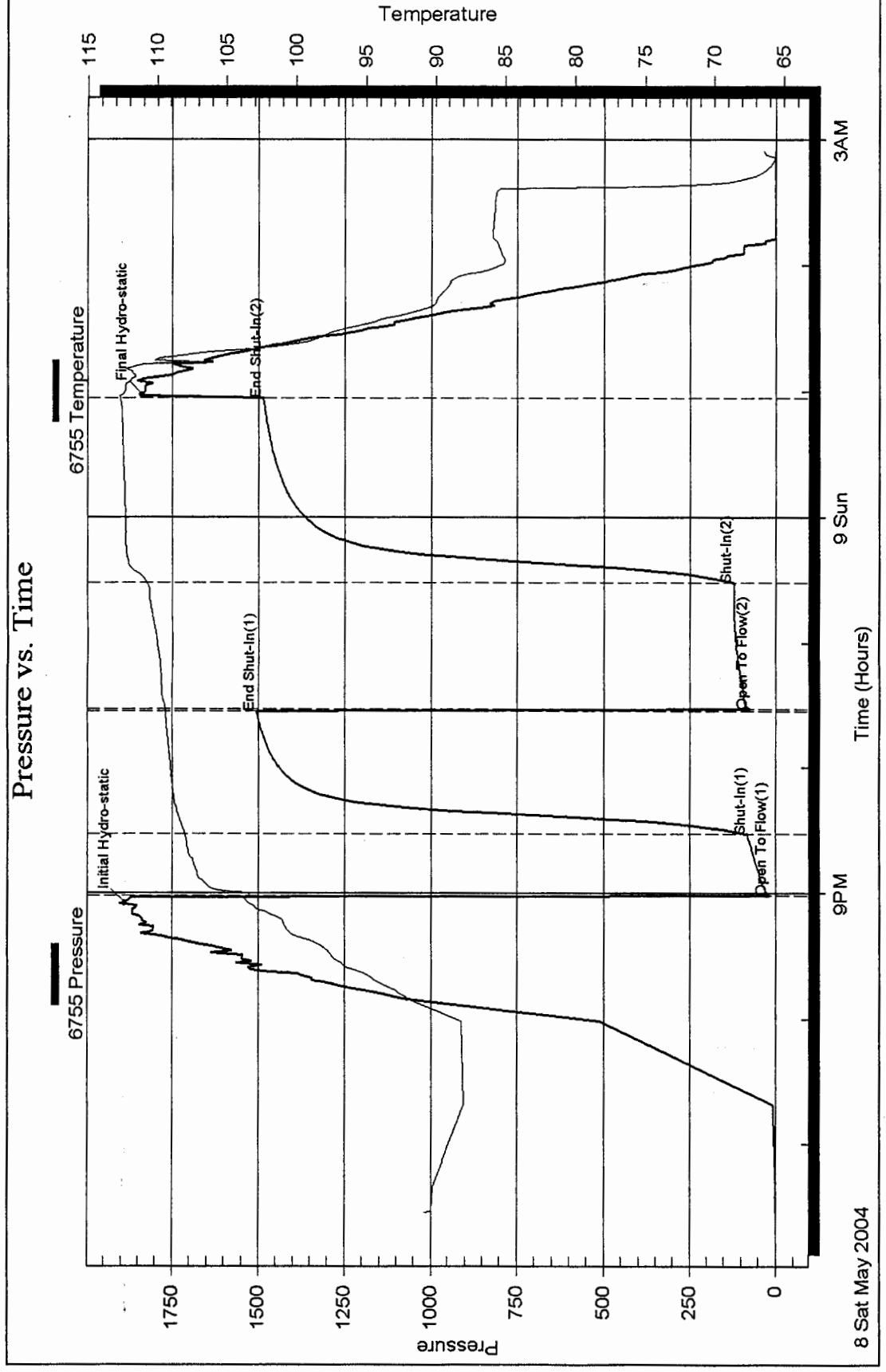
	<b>DRILL STEM TEST REPORT</b>		<b>FLUID SUMMARY</b>												
	McCoy Petl. Corp. 8080 E Central Ste. 300 Wichita Ks. 67206 ATTN: Tim Lauer	Yowell A#1-2 2-31s-8w Harper Ks. Job Ticket: 18991 Test Start: 2004.05.08 @ 18:26:54	DST#: 1												
<b>Mud and Cushion Information</b>															
Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 45.00 sec/qt Water Loss: 12.98 in <sup>3</sup> Resistivity: 0.00 ohm.m Salinity: 7000.00 ppm Filter Cake: 0.20 inches	Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig	Oil API: deg API Water Salinity: 7000 ppm													
<b>Recovery Information</b>															
<b>Recovery Table</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Length ft</th> <th style="width: 60%;">Description</th> <th style="width: 25%;">Volume bbl</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">180.00</td> <td>GOCM 20%g 20%o 60%m</td> <td style="text-align: center;">0.885</td> </tr> <tr> <td style="text-align: center;">125.00</td> <td>GOCM 15%g 18%o 67%g</td> <td style="text-align: center;">1.207</td> </tr> <tr> <td style="text-align: center;">0.00</td> <td>650 ft.of gas in pipe</td> <td style="text-align: center;">0.000</td> </tr> </tbody> </table>				Length ft	Description	Volume bbl	180.00	GOCM 20%g 20%o 60%m	0.885	125.00	GOCM 15%g 18%o 67%g	1.207	0.00	650 ft.of gas in pipe	0.000
Length ft	Description	Volume bbl													
180.00	GOCM 20%g 20%o 60%m	0.885													
125.00	GOCM 15%g 18%o 67%g	1.207													
0.00	650 ft.of gas in pipe	0.000													
Total Length: 305.00 ft		Total Volume: 2.092 bbl													
Num Fluid Samples: 0		Num Gas Bombs: 0													
Laboratory Name:		Laboratory Location:													
Recovery Comments:															
<p><b>RECEIVED</b>  <b>JUN 24 2004</b>  <b>KCC WICHITA</b></p>															

Serial #: 6755

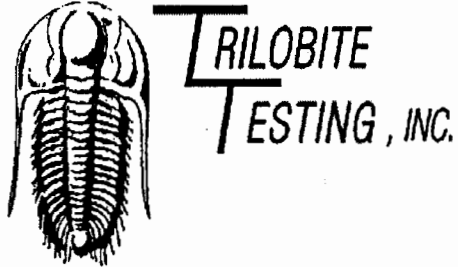
Inside McCoy Reel Corp.

2-31s-8w Harper Ks.

DST Test Number: 1



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**JUN 24 2004**  
**KCC WICHITA**



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petl.Corp.**

8080 E. Central Ste. 300  
Wichita Ks. 67206

ATTN: Tim Lauer

**2-31s-8w Harper Ks.**

**Yowell A#1-2**

Start Date: 2004.05.09 @ 11:35:43

End Date: 2004.05.09 @ 18:00:58

Job Ticket #: 18992                      DST #: 2

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JUN 24 2004  
KCC WICHITA

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

McCoy Petl. Corp.  
8080 E. Central Ste. 300  
Wichita Ks. 67206  
ATTN: Tim Lauer

**Yowell A#1-2**  
**2-31s-8w Harper Ks.**  
Job Ticket: 18992      DST#: 2  
Test Start: 2004.05.09 @ 11:35:43

### GENERAL INFORMATION:

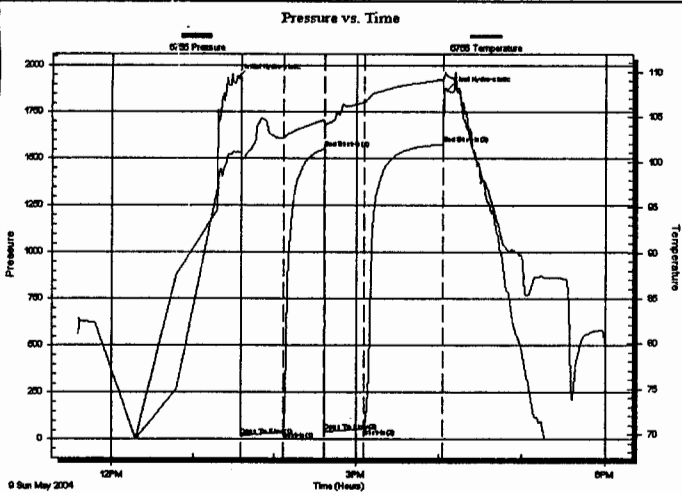
Formation: **Swope**  
Deviated: No    Whipstock:      ft (KB)  
Time Tool Opened: 13:35:13  
Time Test Ended: 18:00:58  
Interval: **4046.00 ft (KB) To 4065.00 ft (KB) (TVD)**  
Total Depth: **4065.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Test Type: Conventional Bottom Hole  
Tester: Gary Fevotiaux  
Unit No: 23  
Reference Elevations: 1669.00 ft (KB)  
1660.00 ft (CF)  
KB to GR/CF: 9.00 ft

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**KCC WICHITA**

**Serial #: 6755**      **Inside**  
Press@RunDepth: 56.05 psig @ 4047.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2004.05.09      End Date: 2004.05.09      Last Calib.: 2004.05.09  
Start Time: 11:35:48      End Time: 18:00:57      Time On Btrm: 2004.05.09 @ 13:32:43  
Time Off Btrm: 2004.05.09 @ 16:05:13

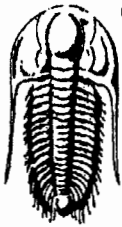
**TEST COMMENT:** IF: Very weak blow . Dead in 10 mins.  
IS: No blow .  
FF: Very weak blow . Dead in 10 secs.  
FS: No blow .



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.04	101.10	Initial Hydro-static
3	16.64	100.45	Open To Flow (1)
34	40.92	102.64	Shut-In (1)
64	1553.57	104.64	End Shut-In (1)
65	41.47	104.23	Open To Flow (2)
93	56.05	106.65	Shut-In (2)
151	1576.85	109.17	End Shut-In (2)
153	1870.99	109.61	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
65.00	Mud	0.32

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

McCoy Petl. Corp.  
8080 E. Central Ste. 300  
Wichita Ks. 67206  
ATTN: Tim Lauer

**Yowell A#1-2**  
**2-31s-8w Harper Ks.**  
Job Ticket: 18992      **DST#: 2**  
Test Start: 2004.05.09 @ 11:35:43

**Tool Information**

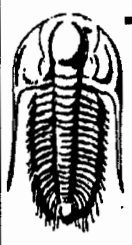
Drill Pipe:	Length: 3797.00 ft	Diameter: 3.80 inches	Volume: 53.26 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 73000.00 lb
			<u>Total Volume: 54.44 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4046.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	41.00 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			4025.00	
Shut In Tool	5.00			4030.00	
Hydraulic tool	5.00			4035.00	
Safety Joint	2.00			4037.00	
Packer	4.00			4041.00	22.00      Bottom Of Top Packer
Packer	5.00			4046.00	
Stubb	1.00			4047.00	
Recorder	0.00	6755	Inside	4047.00	
Perforations	13.00			4060.00	
Recorder	0.00	13222	Outside	4060.00	
Bullnose	5.00			4065.00	19.00      Bottom Packers & Anchor

**Total Tool Length: 41.00**

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KCC WICHITA**



**TRILOBITE  
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### DRILL STEM TEST REPORT

### FLUID SUMMARY

McCoy Petr. Corp.  
8080 E. Central Ste. 300  
Wichita Ks. 67206  
ATTN: Tim Lauer

**Yowell A#1-2**  
**2-31s-8w Harper Ks.**  
Job Ticket: 18992      **DST#: 2**  
Test Start: 2004.05.09 @ 11:35:43

#### 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:	7000 ppm
Viscosity: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.20 inches			

#### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

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KCC WICHITA**

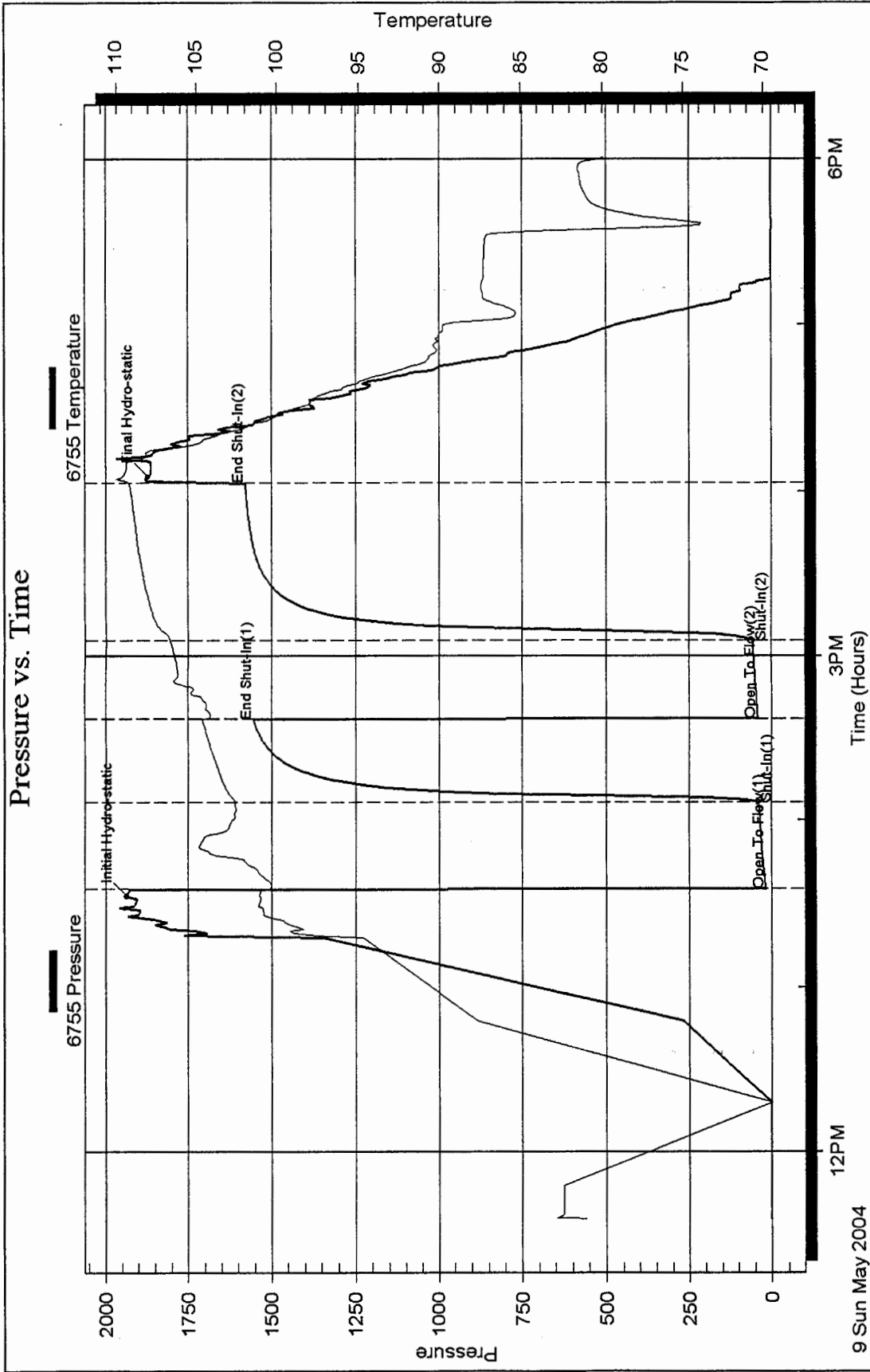
Serial #: 6755

Inside McCoy Petl. Corp.

2-31s-8w Harper Ks.

DST Test Number: 2

### Pressure vs. Time



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**JUN 24 2004**  
**KCC WICHITA**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **McCoy Petl.Corp.**

8080 E.Central Ste. 300  
Wichita Ks. 67206

ATTN: Tim Lauer

**2-31s-8w Harper Ks.**

**Yowell A#1-2**

Start Date: 2004.05.11 @ 01:20:56

End Date: 2004.05.11 @ 11:08:26

Job Ticket #: 18993                      DST #: 3

RECEIVED  
JUN 24 2004  
KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

McCoy Petl.Corp.


Yowell A#1-2

2-31s-8w Harper Ks.

DST # 3

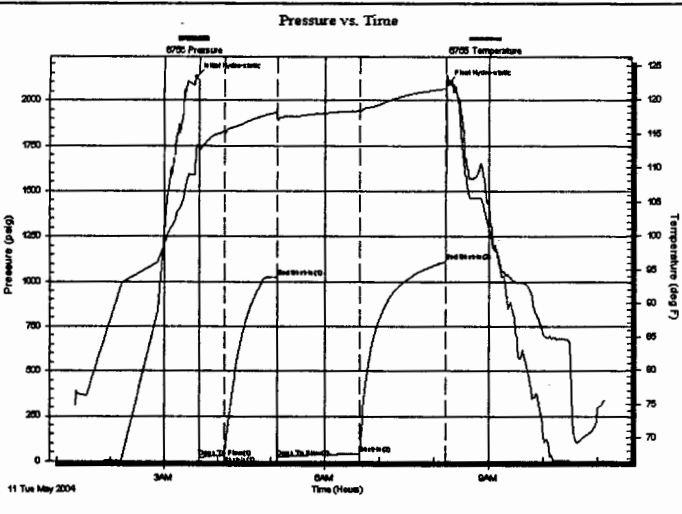
MISS>

2004.05.11

 <b>TRILOBITE TESTING, INC</b>	<b>DRILL STEM TEST REPORT</b>	
	McCoy Petl. Corp. 8080 E. Central Ste. 300 Wichita Ks. 67206 ATTN: Tim Lauer	<b>Yowell A#1-2</b> <b>2-31s-8w Harper Ks.</b> Job Ticket: 18993 <b>DST#: 3</b> Test Start: 2004.05.11 @ 01:20:56

<b>GENERAL INFORMATION:</b>		<b>RECEIVED</b>	Test Type: Conventional Bottom Hole
Formation: MISS>		<b>JUN 24 2004</b>	Tester: Gary Pevoteaux
Deviated: No    Whipstock:                      ft (KB)		<b>KCC WICHITA</b>	Unit No: 23
Time Tool Opened: 03:40:11			Reference Elevations: 1669.00 ft (KB)
Time Test Ended: 11:08:26			1660.00 ft (CF)
Interval: 4419.00 ft (KB) To 4430.00 ft (KB) (TVD)			KB to GR/CF: 9.00 ft
Total Depth: 4430.00 ft (KB) (TVD)			
Hole Diameter: 7.88 inches	Hole Condition: Poor		

<b>Serial #: 6755</b>	<b>Inside</b>				
Press@RunDepth: 41.42 psig @ 4420.00 ft (KB)		Capacity: 7000.00 psig			
Start Date: 2004.05.11	End Date: 2004.05.11	Last Calib.: 2004.05.11			
Start Time: 01:21:01	End Time: 11:08:26	Time On Btmr: 2004.05.11 @ 03:36:26			
		Time Off Btmr: 2004.05.11 @ 08:14:26			
<b>TEST COMMENT:</b> IF: Strong blow . B.O.B. in 95 secs. IS: No blow . FF: Strong blow . B.O.B. in 5 secs. GTS in 36 mins. (see gas volume report) FSI: No blow .					



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2129.70	113.18	Initial Hydro-static
4	18.51	112.42	Open To Flow (1)
31	32.07	115.25	Shut-in(1)
90	1024.60	118.07	End Shut-in(1)
91	22.09	117.04	Open To Flow (2)
182	41.42	118.34	Shut-in(2)
277	1111.60	121.56	End Shut-in(2)
278	2090.72	123.27	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	OCWM 7%o 13%w 80%m	0.30
10.00	OCM 3%o 97%m	0.05

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

McCoy Petr. Corp.  
8080 E. Central Ste. 300  
Wichita Ks. 67206  
ATTN: Tim Lauer

**Yowell A#1-2**  
**2-31s-8w Harper Ks.**  
Job Ticket: 18993      **DST#: 3**  
Test Start: 2004.05.11 @ 01:20:56

**Tool Information**


Drill Pipe:	Length: 4168.00 ft	Diameter: 3.80 inches	Volume: 58.47 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.65 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4419.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	33.00 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			4398.00	
Shut In Tool	5.00			4403.00	
Hydraulic tool	5.00			4408.00	
Safety Joint	2.00			4410.00	
Packer	4.00			4414.00	22.00      Bottom Of Top Packer
Packer	5.00			4419.00	
Stubb	1.00			4420.00	
Recorder	0.00	6755	Inside	4420.00	
Perforations	5.00			4425.00	
Recorder	0.00	13222	Outside	4425.00	
Bullnose	5.00			4430.00	11.00      Bottom Packers & Anchor

**Total Tool Length: 33.00**

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 <b>TRILOBITE TESTING, INC.</b>		DRILL STEM TEST REPORT		FLUID SUMMARY										
		McCoy Petr. Corp.		Yowell A#1-2										
8080 E. Central Ste. 300 Wichita Ks. 67206		2-31s-8w Harper Ks.		Job Ticket: 18993      DST#: 3										
ATTN: Tim Lauer		Test Start: 2004.05.11 @ 01:20:56												
<b>Mud and Cushion Information</b>														
Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API									
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	5000 ppm									
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl											
Water Loss:	10.39 in <sup>3</sup>	Gas Cushion Type:												
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig											
Salinity:	5000.00 ppm													
Filter Cake:	0.20 inches													
<b>Recovery Information</b>														
Recovery Table														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Length ft</th> <th style="width: 60%;">Description</th> <th style="width: 25%;">Volume bbl</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">60.00</td> <td>OCWM 7%o 13%w 80%m</td> <td style="text-align: center;">0.295</td> </tr> <tr> <td style="text-align: center;">10.00</td> <td>OCM 3%o 97%m</td> <td style="text-align: center;">0.049</td> </tr> </tbody> </table>						Length ft	Description	Volume bbl	60.00	OCWM 7%o 13%w 80%m	0.295	10.00	OCM 3%o 97%m	0.049
Length ft	Description	Volume bbl												
60.00	OCWM 7%o 13%w 80%m	0.295												
10.00	OCM 3%o 97%m	0.049												
Total Length:	70.00 ft	Total Volume:	0.344 bbl											
Num Fluid Samples:	0	Num Gas Bombs:	1	Serial #:	gp-3									
Laboratory Name:	Caraway	Laboratory Location:	Liberal, KS											
Recovery Comments:														
<p><b>RECEIVED</b></p> <p><b>JUN 24 2004</b></p> <p><b>KCC WICHITA</b></p>														

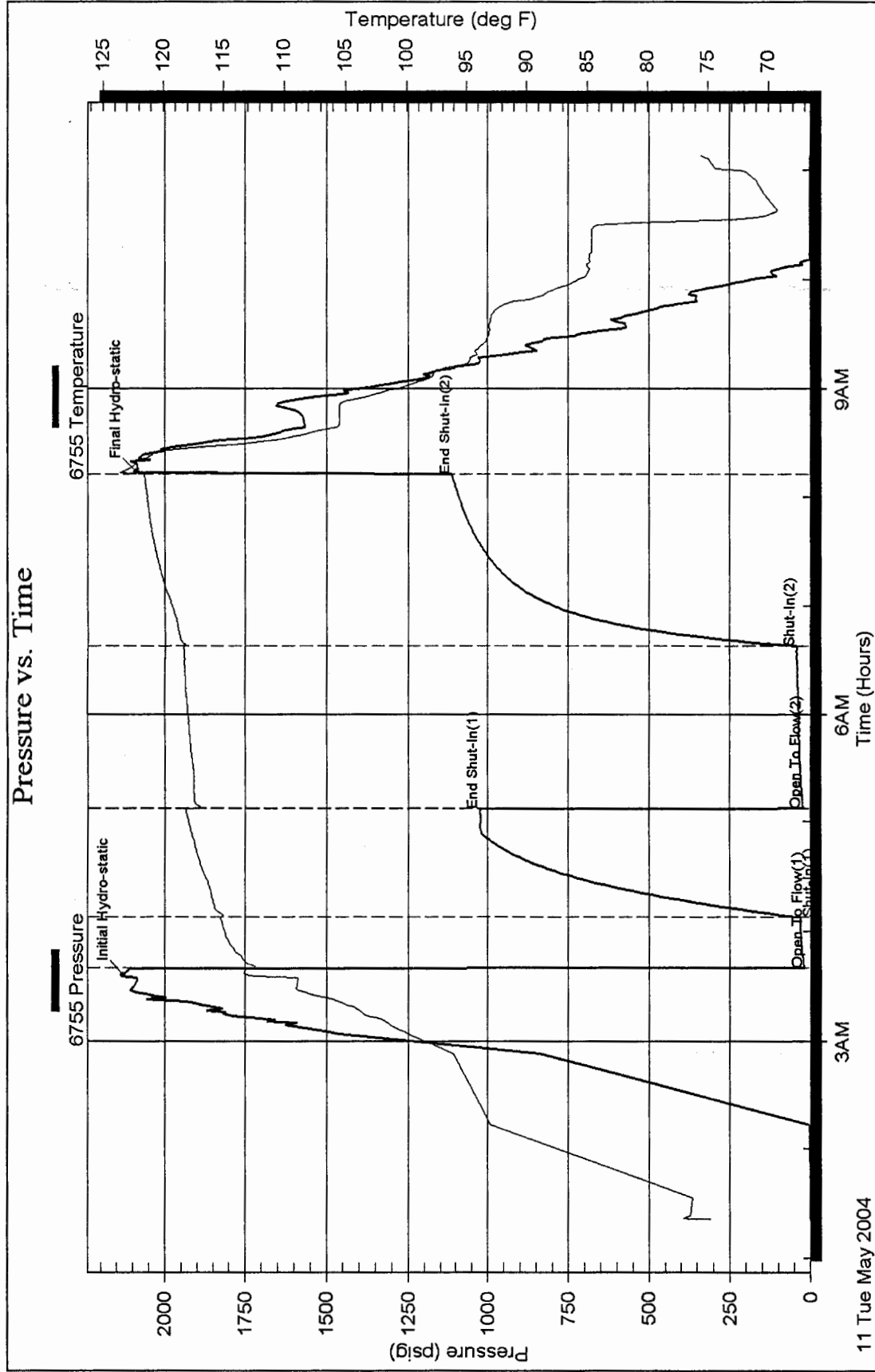
Serial #: 6755

Inside McCoy Petli Corp.

2-31s-8w Harper Ks.

DST Test Number: 3

### Pressure vs. Time



11 Tue May 2004

Trilobite Testing, Inc

Ref. No: 18993

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